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1908.

ANNUAL REPORT

OF THE

MEDICAL OFFICER OF HEALTH

FOR THE

Borough of Maidstone.

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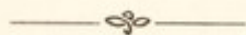
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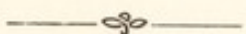
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BOROUGH OF MAIDSTONE.



REPORT OF THE MEDICAL OFFICER OF HEALTH

FOR THE YEAR 1908.



TO THE URBAN DISTRICT COUNCIL.

MR. MAYOR AND GENTLEMEN,

I have the honour to present my Annual Report for the year 1908, and for the convenience of comparison the report is based on a plan similar to that for preceding years.

The calculations submitted are based on the assumption that the rate of increase of population of the Borough during the year ended December 31st, 1908, has been the same as prevailed during the ten years forming the last inter-censal period, 1892—1901.

On this assumption the estimated population of the Borough is fixed at 34,771 at June 30th, this date being the date selected in previous years.

From out of this population there were registered:—

Of Births	831
„ Deaths.....	452
„ Marriages	287

So that the rates per thousand were:—

Of Births	23·9
„ Deaths	12·9
„ Marriages	8·4

BIRTH RATE.—The Birth rate for Maidstone during the year under notice was 23·9 per thousand of the total population. This is an improvement over last year when it was 21·8, and is a slight improvement over the average of the previous ten years when it was 23·4. This is satisfactory in view of the fact that throughout the country generally the Birth rate has, since 1876, declined almost uninterruptedly, but Maidstone is still below the average for England and Wales, this being in 1908 26·5 per 1000.

Of the Births in Maidstone 434 were males and 397 females giving as usual an excess of boys over girls, viz. : 37.

Included in this number are 46 births of illegitimate children, giving a rate in Maidstone of 5·5 per 100 of births in Maidstone.

DEATH RATE.—The Annual Death rate of persons residing in the Borough during the year was 12·9 per 1000, of the total population. This is as low as any Death rate we have on record in Maidstone. The average for the previous ten years was 14·9 per 1000.

This rate of 12·9 is the corrected Death rate for Maidstone and is the rate which would have been recorded had the sex and age constitution of the population in Maidstone been identical with that of England and Wales as enumerated in 1901.

The Death rate for England and Wales during the year under notice was 14·7.

In Table I. of the Appendix to this Report details of the Births and Deaths for the past year are given,

together with the details and averages for the previous ten years.

In Table III. the 452 Deaths are classified in their various age periods, and also under their various causes.

Among the causes it will be noticed that in Maidstone 35 persons died of Consumption of the Lungs, if, to this number, be added those who died from other forms of Consumption it will be seen that we lost 52 people from this cause of death alone.

At present Consumption is not a notifiable disease either voluntarily or otherwise in Maidstone, so that the only indication of the presence of this infectious disease that the Health Authorities have is when a death occurs.

By the recent action of the Local Government Board an order has been issued that the Medical Officer of the Poor Law Institution receiving poor cases from Maidstone, shall notify to the Medical Officer of Health all those cases of Consumption that he has received from Maidstone. It is also the duty of the District Medical Officers to notify similar cases that may occur among the poor on whom he is in medical attendance. By this means considerable facilities will be afforded for the extension of administrative action in checking the spread of this infectious malady.

CANCER.—The number of Deaths attributed to Cancer is 33. The records of this as a separate cause of death are only available in Maidstone for the past nine years. It is well known that the number of deaths attributed to Cancer has shown for many years a very

marked and steady increase, and I find that in Maidstone the number of deaths last year from this cause is higher than the average for the previous nine years, which was 29.

Epidemic Influenza has not entirely disappeared as a cause of death, there being two last year.

Measles was entirely absent as a fatal disease, and Whooping Cough caused but one death and that in a Infant.

INFANTILE MORTALITY.

The rate of Infantile Mortality, that is to say the number of children who died under one year of age per thousand of those born during the year, was unusually low this year, being 104 per 1000. This is eminently satisfactory and is lower than the average of the rural districts of England and Wales which was 110 per 1000, and also lower than that of the 76 great towns, and the 142 smaller towns. For a town the size of Maidstone and possessing a large industrial population this low rate of Infantile Mortality is one of the best indications of the general attention that is paid to sanitation.

An examination of the subjoined table will reveal the fact that this diminution of the loss of infants has been very steady and continuous since 1870.

In analysing the causes of deaths of these infants I find that but one died of any of the common infectious diseases, 14 died of Diarrhœal diseases, 26 of Wasting

**Deaths per 1,000 Births of Children under one
year in Maidstone.**

Year.	1st Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.	Whole Year.
1870	165	97	263	115	160
1871	258	107	278	117	190
1872	181	116	171	144	153
1873	136	118	246	127	157
1874	182	93	261	119	164
1875	187	106	157	165	154
1876	147	112	141	98	124
1877	211	140	187	84	155
1878	161	176	209	155	175
1879	135	145	122	165	142
Average	176·3	121·0	203·5	128·9	157·4
1880	135	120	229	118	153
1881	120	119	122	64	106
1882	138	110	100	151	125
1883	218	79	122	139	138
1884	189	79	159	139	138
1885	140	75	187	125	133
1886	118	105	191	166	142
1887	80	59	158	114	103
1888	167	136	167	145	154
1889	132	99	173	137	135
Average	143·7	98·0	160·8	129·8	132·7
1890	136	117	93	113	115
1891	140	113	150	157	140
1892	128	87	110	80	102
1893	64	90	222	80	111
1894	167	119	112	116	128
1895	133	62	172	157	129
1896	156	82	129	162	133
1897	143	80	219	100	138
1898	153	89	234	155	152
1899	81	58	239	197	129
Average	130	89	168	131	127
1900	108	87	143	128	115
1901	157	73	162	104	132
1902	130	60	106	145	117
1903	147	141	97	123	128
1904	128	57	165	81	108
1905	161	70	84	129	109
1906	88	106	127	102	107
1907	237	82	94	107	131
1908	128	62	87	136	104

diseases, 5 of Tuberculous diseases, and 22 of Bronchitis and Pneumonia.

The comparatively large number of deaths from Bronchitis and Pneumonia suggests want of maternal care and solicitude and it is in this direction that efforts should be made to reduce this loss of infant life.

In this connection I was instructed in April to prepare a report on Infantile Mortality in Maidstone, a copy of which is herewith appended.

“ REPORT RE INFANTILE MORTALITY IN
MAIDSTONE.

“ During the year ending December 31st, 1907, the death returns relating to Maidstone showed that 99 children died before they reached the age of one year; there were born during the same period 755 so that the rate of infantile mortality for Maidstone, during the past year, was 131 per thousand. The rate for England and Wales was 108 per thousand.

“ The average for the previous ten years was 123. This is the highest that has been received since 1901 when the number was 132 and is accounted for by the fact that in the first quarter an outbreak of Measles and Whooping Cough was present.

“ The rate for legitimate infants during the same period was 127 per thousand, while for illegitimate it was much higher, viz. 186 per thousand.

“ I have extracted from the death returns the various localities where these deaths occur and find that in certain streets a large proportion of these children die; these streets are in particular:—Upper

Stone Street, Woollett Street, Brunswick Street, Bower Place and Camden Street.

“In considering the age at which these 99 children died I find that 44 did not reach the age of three months. It is obviously at this tender age when maternal care and solicitude are of the greatest value.

“Amongst the various causes of death are the following :—

Measles	...	...	4
Whooping Cough	...	...	12
Diarrhœa	...	...	8
Wasting Diseases	...	...	33
Pneumonia	...	...	15

“The methods adopted to check a corresponding waste of Infantile life in other towns include the adoption of the Notification of Births Act, 1907, which imposes on those in attendance at the birth of a child the duty of informing the Medical Officer of Health within 48 hours of such event.

“When a birth has taken place in such families where it is known that the infant is not likely to receive the necessary care and attention, either from poverty, ignorance or inability on the part of the mother, the Local Authority have appointed qualified women to call and superintend and direct the health and feeding of the infant.

“In Maidstone this duty alone would not be sufficient to occupy the whole of the time of a Lady Health Visitor but with the extension of duties

in other directions of a Public Health nature, such as visiting the homes of certain children attending the Public Elementary Schools, an appointment of this character may be found to be both advisable and necessary."

NOTIFIABLE DISEASES.

SCARLET FEVER.

The 63 cases of Scarlet Fever notified were all of the mildest character so mild indeed that in many cases the difficulty of recognising them as such was considerably increased. There were no deaths.

Quarter.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	Previous 10 Years' average.
1st.....	2	17	8	6	22	12	1	3	78	21	19	16
2nd ...	5	17	19	17	9	10	11	35	60	11	11	19
3rd.....	4	22	7	34	7	5	11	27	87	11	11	20
4th.....	1	14	11	73	22	...	9	198	44	24	22	40
Year ...	12	70	45	130	60	27	32	263	269	67	63	95
Cases removed to Sanatorium.	8	31	34	75	47	25	29	170	218	56	58	69

TYPHOID FEVER.

The record of cases of Typhoid Fever arising within the district is very satisfactory.

Four cases were notified and of these two occurred at Barming Asylum in demented patients. The initial case probably contracted the malady from habits of gross uncleanliness, the second case was from contact.

The subsequent history of one of the other notified cases threw considerable doubt on the correctness of the diagnosis. The remaining case occurred in a young man whose duty took him not unfrequently into the surrounding country where he ran the risk of drinking water from doubtful sources.

Quarter.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	Previous 10 Years' average.
1st	14	5	13	7	1	1	...	...	...	2	1	4
2nd ...	5	8	2	3	2	1	3	2	3	...	...	2
3rd.....	8	4	2	4	3	2	1	...	...	1	2	2.5
4th	8	6	11	7	5	5	1	1	2	4	1	5
Year ...	35	23	28	21	11	9	5	3	5	7	4	14

DIPHTHERIA AND GROUP.

The record of cases of Diphtheria is still low there being but 37 notified; for the previous ten years the annual average was 85. Towards the end of the year a number of cases were reported—15 in all—the initial cases of which were associated with the opening up of a considerable length of old sewer and it was along this line that the cases appeared. The type of the malady in this particular outbreak was of a mild nature there being but one death. Throughout the year however five cases proved fatal equivalent to a case mortality of 13.5 per cent.

Quarter.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	Previous 10 Years' average.
1st	40	94	16	25	38	4	13	6	10	10	13	25
2nd	24	47	9	18	23	5	6	3	6	6	3	14
3rd.....	80	36	9	14	15	2	9	12	3	13	6	19
4th	96	72	16	25	13	5	11	3	6	12	15	25
Year ...	240	249	50	82	89	16	39	24	25	41	37	85
Removed to Sanatorium.	154	103	34	54	68	11	35	17	13	34	32	52

SMALL POX.

Quarter.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	Previous 10 Years' average.
1st .....	...	...	...	...	6	...	...	...	...	...	...	·6
2nd	1	...	...	...	11	...	...	...	...	...	...	1·2
3rd ....	...	...	...	1	15	...	...	...	...	...	...	1·6
4th .....	...	...	1	2	...	...	...	...	...	...	...	·3
Year ...	1	...	1	3	32	...	...	...	...	...	...	3·7

No cases of Small Pox were notified during the year this making the sixth year in succession without a case occurring in our midst.

I would, however, again remind the Council that no accommodation exists should an outbreak occur, and it is instructive to carefully analyse the records of the number of children born in Maidstone who are not protected by Vaccination from this scourge. From these

tables it will be seen that this number of unprotected children is a steadily increasing one, so much so that for the first six months of the year under review, nearly one half of the children are unvaccinated and are thus not only a danger to themselves but are a menace to the general community.

VACCINATION.

Year.	Births.	Successfully Vaccinated.	Insusceptible to Vaccination.	Had Small Pox.	Died unvaccinated.	Number in respect of whom Certificates of Conscientious Objection have been received.	Vaccination postponed.	Removals.	Remaining.	Children not vaccinated (including cases postponed) per cent. per birth.
1898	716	314	1	...	84	27	41	69	180	44.2
1899	818	433	2	...	64	59	79	87	94	38.9
1900	825	420	1	...	61	35	35	81	192	53.6
1901	763	567	1	...	61	95	2	33	15	19.0
1902	815	649	3	...	63	71	10	16	3	12.2
1903	806	620	2	...	76	84	7	12	5	12.1
1904	832	661	1	...	59	91	3	14	3	13.3
1905	799	591	...	...	68	111	6	23	...	17.4
1906	830	629	...	...	61	112	6	20	3	24.3
1907	763	520	...	...	58	169	5	11	...	26.4
1908 *	433	223	...	...	25	167	5	11	2	46.1

* January to June.

ERYSIPELAS.

Quarter.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	Previous 10 Years' average.
1st	6	9	3	3	6	10	3	4	4	6	7	5
2nd ...	4	6	5	3	5	4	3	0	8	5	3	4
3rd.....	7	2	3	3	6	5	1	4	3	4	2	3
4th	12	6	9	8	13	6	1	8	10	7	3	8
Year ...	29	23	20	17	30	25	8	16	25	22	15	20

The cases of Erysipelas were in the main of a mild character only one death occurring.

PUERPERAL FEVER.

Quarter.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	Previous 10 Years' average.
1st .....	...	1	...	1	...	1	2	...	...	1	1	·6
2nd .....	...	1	...	...	1	3	...	...	1	...	...	·6
3rd.....	...	...	...	...	1	...	...	...	1	...	...	·2
4th	1	1	...	...	2	1	...	...	1	1	2	·7
Year ...	1	3	...	1	4	5	2	...	3	2	3	2·1

None of the three cases of Puerperal Fever were fatal. No cases occurred in the practice of the registered Midwives of the District.

TOTAL NOTIFICATIONS.

The total number of notifications of infectious diseases received throughout the year amount to 122. This is very satisfactory the average for the previous ten years being 222. It is also the lowest since 1904. It will be seen that the reduction is not common to any one disease but there is a reduction in each of the five principal notifiable diseases.

The detail appears in the following tables:—

Quarter.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	Previous 10 Years average.
1st	62	126	40	42	73	28	19	12	92	40	41	53
2nd ...	39	79	35	41	51	23	24	40	78	22	17	43
3rd.....	99	64	21	56	47	14	22	43	94	29	21	48
4th	118	99	18	115	55	17	23	210	63	48	43	75
Year ...	318	368	114	254	226	82	88	306	327	139	122	222

DISEASE.	Previous 10 Years' average.	1908.
{ Diphtheria	52	37
{ Croup		
Scarlet Fever.....	69	63
{ Typhoid Fever	14	4
{ Continued Fever.....		
Erysipelas	20	15
Puerperal	2.1	3
Small Pox	3.7	3.7

THE SANATORIUM.

During the year the following cases have been admitted to treatment, viz. :—

Diphtheria	...	...	...	32
Scarlet Fever	...	...	...	58

DIPHTHERIA.—Of the 32 cases admitted to the Sanatorium, 5 died, equalling a case mortality of 13.5 %; last year the case mortality was 7.3 %.

The Diphtheria block was closed on two occasions from April 23rd until June 22nd and again from July 31st until October 27th.

SCARLET FEVER.—All the cases were of a mild character, none proving fatal. It was necessary however to keep this block open throughout the year.

The number of patients treated in the Sanatorium for the past year and for the previous ten years is as follows :—

DISEASE.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.	Previous 10 Years' average.
Diphtheria	154	103	34	54	68	11	35	17	13	34	32	52
Scarlet Fever	8	31	34	75	47	25	36	170	205	56	58	68
Small Pox.....	1	...	1	2	31	...	...	...	...	...	...	3
Totals	163	134	69	131	146	36	71	187	218	90	90	123

GENERAL SANITARY CONDITION AND PROGRESS.

From Mr. Bunting, the Borough Surveyor, I learn that the following works of Sanitary interest have been carried out during the year :—

New Houses erected...	...	...	105
Buildings undergone alterations	...	...	19
Buildings of the Warehouse class erected	...	...	6
Number of connections to Sewer	...	...	43

The following Sewer extensions have been made :—

SOIL SEWERS.

Sutton Road	...	...	222 yards.
Camden Street	...	...	124 „

The work of reconstructing the sewers in London Road, Upper and Lower Fant Roads was in hand at the close of the year covered by this Report and the particulars as to the length will be included in the next Report.

SURFACE WATER SEWER, LONDON ROAD.

This also was in hand and the particulars will be included in the next Report.

With regard to Sutton Road this is an extension to the Cemetery Gate, and has caused the removal of one of the few Cesspools in the Borough.

The renewal of the sewer in Camden Street was caused by the collapse of a very old and defective brick sewer which fortunately collapsed and thereby gave us the opportunity of reconstructing the drainage of this street in a satisfactory manner to the great benefit of the inhabitants whose drains connected therewith.

The London Road sewer mentioned above is an entirely new scheme which will enable the Cesspools in Queen's Avenue and in the adjacent parts of London Road to be done away with and the drainage of a number of houses in the district being connected to the town system.

The renewal in the Lower and Upper Fant district has enabled us to remove what was one of the most defective sewers in the whole of the Borough. This sewer was practically an elongated Cesspool in itself,

the pipes being in places more than half choked with sewage, with the result that after a moderately heavy rain-fall, the pressure out of the sewer relieved itself by escaping out of the house drains.

Union Street was a similar case to Upper Fant, the previous sewer being in a deplorable state, and this was removed in view of the erection of the new school there in the immediate future. Length, 338 yards.

The routine work of sanitary interest accomplished during the year is set forth in the following table compiled by Mr. Jackling, the Chief Sanitary Inspector:—

Table shewing the Number of Premises dealt with by notice or otherwise.

House drains reconstructed	41
„ „ repaired	17
Sink wastes disconnected or trapped... ..	37
New Gullies fixed	79
W.C.'s repaired	52
W.C. flushing apparatus repaired	407
W.C. basins replaced	38
Houses provided with new W.C.'s	10
W.C.'s provided with new flushing apparatus	16
Houses provided with dustbins	315
House roofs repaired	36
Back Yards paved or repaired	62
Overcrowding abated	17
New Sinks provided	50
Shooting to houses provided or repaired	40
Houses cleansed and limewashed	38
House refuse collected on complaint... ..	25
Cesspools emptied, cleansed and filled up	2
Manure Pits constructed	2
Urinals repaired	3
New Urinals built and provided with automatic flushing apparatus	3
New Vent Shafts provided	20
Manure and other refuse removed	10
Pigeons, Poultry, Pigs, Rabbits, &c., removed	17
Wells closed	1
Miscellaneous	38
New Stoneware drainage laid... .. feet	3905
New Iron drainage laid... .. „	84

HOUSING OF WORKING CLASSES ACT.—On several occasions action has been taken, under the various provisions of the Act, when it has been necessary to close buildings as unfit for human habitation. Twenty-two certificates have been issued.

BAKEHOUSE REGULATION ACT.—The bakehouses in the Borough both underground and otherwise have from time to time been inspected and found to be clean and in order.

CANAL BOAT ACT.—No cases of infectious disease have been introduced into the Borough by the occupants of barges coming to the town and the various provisions of this Act have been complied with.

FACTORY AND WORKSHOP ACT 1901.—The details of work accomplished under this Act will be found in the Appendix. A copy has been forwarded to the Secretary of State (Home Office) as required by the Act.

THE MIDWIVES ACT.

REPORT upon the administration of the above Act during the year ended March 31st, 1909:—

“ During the year 13 midwives signified their intention to practise within the area, and of this number 7 have received a regular course of practical instruction and have certificates, the remaining 6 being allowed to practise, in

virtue of having acted as such prior to the Midwives Act coming in force. There is an increasing number of births attended by midwives in Maidstone, 433 out of a total of 831 being looked after by midwives, or 52 %. Last year it was 44 %.

“Medical help was sought in 18 of these cases and there were seven still births.

“The midwives have all been interviewed from time to time and their methods enquired into. I am pleased to say that increasing attention is paid to the extreme value of cleanliness as regards the clothes and person of the midwives as well as of the bags and instruments they are provided with. The records of all the certificated midwives are well kept.”

WATER REPORT.

During the past year the Borough has been supplied with water from three sources two being from springs situated in the chalk at Boarley and Cossington, the other source being from the Lower Greensand, the boring of which is situated at Forstal.

THE COSSINGTON SUPPLY.—The grounds immediately surrounding the spring heads, three in number, have been from time to time inspected and found to be clean and in order. The protecting fences are in good

order, and the guard houses in substantial repair. In No. 1 some large overhanging boughs have been removed in order to allow of a freer access of sunshine and air.

This supply has been chemically examined 26 times a sample being collected as near the source as possible every 14 days. The water has remained constant in composition, except as regards the amount of albuminoid ammonia present, but on no occasion has this exceeded '04 parts per million.

THE BOARLEY SUPPLY.—The reservoir has been inspected on several occasions, the fence surrounding is in good condition, and the turf on the roof is compact and well grown. Specific and definite enquiries have been made as to the cultivation of the ground within the enclosure. No fertilizing material of any character is used for the fruit trees that are planted here.

Moreover this ground is on a lower level than the reservoir, and the reservoir itself is watertight so that nothing whatever can reach it except through the iron main feeding it from the spring heads.

The grounds around the spring heads, three in number, are well protected by means of stout fences and guard houses, and these are in good condition. The head of the shaft at No. 3 has recently been renovated and is sealed by a heavy iron lid. The ground immediately surrounding is pasture land, the turf being of a very compact nature.

This supply has been analysed 52 times, the supply being collected once a week.

The specimen for analysis is collected as near the source as possible, alternately with that from near its point of distribution.

The chemical composition of this supply approximates closely to that from Cossington—both being derived from the chalk—the main difference being that the water derived from Boarley contains a larger amount of nitrogen as nitrates.

THE FORSTAL SUPPLY.—The pumping station has been visited from time to time. The head of the deep well remains efficiently protected from any liability to contamination.

This supply has been chemically examined on 26 occasions and has been found uniformly good in composition. It is somewhat harder than that from Boarley and Cossington, and contains more solids.

COSSINGTON AND FORSTAL (MIXED).—This supply has been analysed on 52 occasions, the specimen for analysis being collected from taps selected in various parts of the town. On all occasions the analysis was satisfactory, and with one exception the water was uniformly clear.

The Detling High Level reservoir, situated near the foot of the hill, has also been visited and on all occasions has been found to be well protected. The turf is now closing in and becoming very compact.

BACTERIAL EXAMINATION.—The supplies from Boarley, Cossington and Forstal have been examined by Professor Sims Woodhead, who in his report states that

“these waters from a bacteriological point of view are “still of a high standard of purity.”

The detail of the various chemical analyses, 156 in number, appear in the appendix.

As in previous years the average results have been tabulated as below. These results do not materially differ from those obtained in 1907.

NAME OF SUPPLY.	BOARLEY.	COSSINGTON.	FORSTAL.	COSSINGTON AND FORSTAL MIXED.
Total Solids	39·7	39·4	41·7	41·6
Chlorine	2·3	2·3	2·9	2·4
Nitrogen as Nitrates	·549	·415	·122	·282
Free Ammonia	·00	·00	·00	·00
Albuminoid Ammonia	·01	·02	·01	·01
Oxygen absorbed in 4 hours ...	·004	·005	·004	·004
Hardness, Total	24·5	25·3	28·7	25·7
„ Permanent	7·1	7·3	8·3	7·4
Colour and Appearance in 2-foot tube	clear	clear	clear	clear
Smell	none	none	none	none
Phosphoric Acid	none	none	none	none

All results are given in parts per hundred thousand, except Free and Albuminoid Ammonia, which are in parts per million.

In only one case was it found necessary to examine the water from a private well and in this instance the water showed no evidence of organic pollution and in consequence it could be used with safety for drinking purposes.

METEOROLOGY.

The detail of meteorological observations is set forth in the Appendix. The mean reading of the barometer

for the year is 29·82 inches, the highest monthly mean being for April, 30·08, and the lowest for July 29·61. The hottest month was July, giving a mean of the maximum readings of the thermometer in the shade of 70°, and a mean of the minimum readings of 56°, while the coldest month was January, with a mean of maximum readings of 41°, and a mean of minimum readings of 29°. The prevailing winds were S.W., there being 127 days on which the wind was in this quarter. The total rainfall for the year was 22·37 inches, the heaviest amount falling in August, viz., 3·78 inches, while during September the amount registered was ·9 inch, this being the driest month of the year. There were 157 days in the year on which ·01 of an inch or more rain fell.

SUMMARY.

In summarizing the health report for the year it is satisfactory to note that the Death rate is as low as any yet recorded in Maidstone. The loss of infant life in the Borough compares most favourably with that which holds in England and Wales generally. Further there has been a steady reduction in the amount of infectious disease present as compared with the average of the previous ten years.

These facts indicate that the increasing attention that is paid to the great laws of health are attended with satisfactory results and should encourage and stimulate further activities in the same field. In this connection

certain administrative measures are being instituted with a view, in the first place, to localize the various centres of infection of consumption, and secondly to gather such information as may lead ultimately to definite steps being taken for the isolation and treatment of such cases of this great white plague as may be deemed suitable.

I have the honour to be,

Mr. Mayor and Gentlemen,

Your obedient servant,

C. PYE OLIVER, M.D.

AND

Doctor in State Medicine (Lond).

THE GABLES,

MAIDSTONE,

March 31st, 1909.

BOROUGH OF MAIDSTONE, 1908.

GENERAL SUMMARY.

POPULATION (estimated to the middle of 1908) ...	...	...	34,771
NUMBER OF INHABITED HOUSES AT CENSUS OF 1901 ...	...	...	6,648
AVERAGE NUMBER OF PERSONS TO A HOUSE ...	...	...	5.14
AREA ...	...	...	4,008 acres
	{ East Maidstone 2,019 acres	{ West ,, 1,989 ,, }	
DENSITY ...	...	...	8.6 persons per acre
ANNUAL BIRTH RATE ...	...	...	...per 1,000 23.9
ANNUAL DEATH RATE ...	...	...	,, 12.9
ZYMOTIC DEATH RATE... ..	...	...	,, .48
PHTHISIS AND OTHER TUBERCULAR DISEASES'			
DEATH RATE ... ..	...	...	,, 1.5
RESPIRATORY DEATH RATE ... ..	...	...	,, 1.8
INFANTILE DEATH RATE PER 1,000 BIRTHS ... ..	...	...	104
BIRTHS ... ..	...	...	831
	{ Males 434	{ Females 397 }	
DEATHS	452	{ East Maidstone 253	452
	{ Males 215	{ West ,, 199 }	
	{ Females 237 }		
EXCESS OF BIRTHS OVER DEATHS ... ..	...	...	379

ELEVATION.—the population reside at a mean Elevation of 70 feet above the sea level, ranging from 20 to 120.

AREA.—The area of 4,008 acres is divided into two divisions, by Week Street, Gabriel's Hill, and Stone Street; all to the West, including the Western sides of those Streets constituting West Maidstone; the Eastern portion forming East Maidstone.

TABLE I.—Vital Statistics of Whole District, 1908 and previous Years.

YEAR.	Population estimated to Middle of each Year.	BIRTHS.			TOTAL DEATHS REGISTERED.			TOTAL DEATHS IN PUBLIC INSTITUTIONS IN THE DISTRICT.	Deaths of Non-Residents registered in Public Institutions beyond the District.		NET DEATHS AT ALL AGES BELONGING TO THE DISTRICT.	
		Number.	Rate. ^o	Number.	Rate per 1,000 Births registered	At all Ages.			Number.	Rate. ^o	Number.	Rate. ^o
						Number.	Rate. ^o					
1	2	3	4	5	6	7	8	9	10	11	12	13
1898	33,121	714	21.55	108	152	660	20.5	236	214	50	496	15.4
1899	33,262	820	24.65	106	129	702	21.1	179	168	50	578	17.3
1900	33,305	813	24.41	94	115	710	21.3	313	215	53	548	16.4
1901	33,548	762	22.11	101	132	640	19.0	272	197	39	482	14.3
1902	33,717	792	23.50	92	117	632	18.5	313	222	60	470	14.2
1903	33,832	810	23.94	104	128	617	18.2	260	227	48	438	12.9
1904	34,052	841	24.69	91	108	586	16.6	210	127	52	491	14.4
1905	34,225	795	23.22	87	109	677	19.7	244	210	53	520	15.1
1906	34,403	830	24.12	89	107	601	17.4	224	178	47	470	13.6
1907	34,585	755	21.8	99	131	669	19.3	231	187	52	534	15.4
Averages for years 1898-1907.	33,805	793	23.4	97	122	649	19.1	248	195	50	502	14.9
1908	34,771	831	23.9	87	104	594	17.3	234	197	55	452	12.9

NOTE.—The deaths included in Column 7 of this Table are the whole of those registered during the year as having actually occurred within the district or division. The deaths included in Column 12 are the number in Column 7, corrected by the subtraction of the number in Column 10 and the addition of the number in Column 11.

By the term "Non-resident" is meant persons brought into the district on account of sickness or infirmity, and dying in public institutions there—these institutions are: (1) The Kent County Asylum, Barming; (2) West Kent General Hospital, Maidstone; (3) Ophthalmic Hospital, Maidstone; and by the term "Residents" is meant persons who have been taken out of the district on account of sickness or infirmity, and have died in public institutions elsewhere, viz.: Union Workhouse, Coxheath.

The "Public Institutions" taken into account for the purpose of these Tables are those into which persons are habitually received on account of infirmity, such as Hospitals, Workhouses and Lunatic Asylums.

Area of District in acres (exclusive of area covered by water) } 4,008 acres.

Total population at all ages..... 33,516 }
 Number of inhabited houses 6,648 } At Census of 1901.
 Average number of persons per house 5.04 }

TABLE II.—Cases of Infectious Disease Notified during the Year 1908.

NOTIFIABLE DISEASE.	CASES NOTIFIED IN WHOLE DISTRICT.					TOTAL CASES NOTIFIED IN EACH LOCALITY.		NO. OF CASES REMOVED TO HOSPITAL FROM EACH LOCALITY.		Total Cases removed to Hospital.
	At all Ages.	At Ages—Years.				East Maidstone.	West Maidstone.	East Maidstone.	West Maidstone.	
		Under 1.	1 to 5.	5 to 15.	15 to 25.						25 to 65.	65 and upwards.
Small-pox	...	...	...	...	...	...	...	...	...	...
Cholera	...	...	...	...	...	...	...	...	...	...
Diphtheria (including Membranous Croup)	37	8	25	1	2	...	13	24	21	32
Erysipelas	15	1	2	4	7	1	11	4	...	...
Scarlet Fever	63	7	43	7	4	...	21	42	38	58
Typhus Fever	...	...	...	...	...	...	...	...	...	...
Enteric Fever	4	...	...	...	4	...	1	3	...	...
Relapsing Fever	...	...	...	...	...	...	...	...	...	...
Continued Fever	...	...	...	...	...	...	...	...	...	...
Puerperal Fever	3	...	...	...	3	...	2	1	...	...
Plague	...	...	...	...	...	...	...	...	...	...
Totals	122	3	16	70	12	20	48	74	31	90

Isolation Hospital (Name and Situation)—The Sanatorium, Maidstone. Total available beds—40.

Number of Diseases that can be concurrently treated—3.

TABLE III.
Causes of, and Ages at, Death during the
Year 1908.

CAUSES OF DEATH.	DEATHS IN WHOLE DISTRICT AT SUBJOINED AGES.						DEATHS IN LOCALITIES (AT ALL AGES).		DEATHS IN PUBLIC INSTITUTIONS.	
	All Ages.	Under 1.	1 to 5.	5 to 15.	15 to 25.	25 to 65.	65 and upwards.	East Maidstone.		West Maidstone.
Small Pox ... ..	...	...	...	...	...	...	...	...	...	...
Measles ... ..	...	...	...	...	...	...	...	...	...	1
Scarlet Fever ... ..	...	...	...	...	...	...	...	...	...	...
Whooping Cough	1	1	...	...	...	...	...	...	1	...
Diphtheria (including Mem- branous Croup)	3	2	1	...	...	...	...	...	3	3
Croup ... ..	...	...	...	...	...	...	...	...	...	...
Fever { Typhus ... ..	...	...	...	...	...	...	...	...	...	...
Enteric ... ..	...	...	...	...	...	...	...	...	...	2
Other Continued... ..	...	...	...	...	...	...	...	...	...	...
Epidemic Influenza	2	...	...	...	...	2	...	1	1	1
Cholera ... ..	...	...	...	...	...	...	...	...	...	...
Plague ... ..	...	...	...	...	...	...	...	...	...	...
Diarrhoea	13	10	2	...	...	...	1	8	5	16
Enteritis	8	4	3	...	...	...	1	6	2	2
Puerperal Fever ... ..	...	...	...	...	...	...	...	...	...	...
Erysipelas	1	...	...	...	...	...	1	1	...	...
Other Septic Diseases ... ..	...	...	...	...	...	...	...	...	...	...
Phthisis (Pulmonary Tuber- culosis)	35	...	1	1	4	26	3	21	14	33
Other Tubercular Diseases	17	5	6	3	...	2	1	10	7	6
Cancer, Malignant Disease	33	...	...	...	...	19	14	21	12	7
Bronchitis	28	9	1	...	...	3	15	15	13	3
Pneumonia	35	14	4	3	1	7	6	20	15	15
Pleurisy ... ..	...	...	...	...	...	...	...	...	...	...
Other Diseases of Respiratory Organs	1	...	...	...	...	...	1	1	...	1
Alcoholism, Cirrhosis of Liver	5	...	...	...	...	2	3	3	2	2
Venereal Diseases	3	2	...	...	...	1	...	2	1	...
Premature Birth	14	14	...	...	...	...	...	8	6	...
Diseases and Accidents of Par- turation ... ..	...	...	...	...	...	...	...	...	...	...
Heart Diseases	51	...	...	2	3	21	25	23	28	40
Accidents	6	...	2	2	1	1	...	2	4	3
Suicides	9	...	...	...	...	8	1	...	9	1
All other causes	187	28	7	3	1	48	100	111	76	98
All Causes	452	87	26	15	11	140	173	253	199	234

TABLE IV.

Infantile Mortality during the Year 1908.

DEATHS from stated causes in Week and Months under One Year of Age.

CAUSES OF DEATH.	Under 1 Week.	1-2 Weeks.	2-3 Weeks.	3-4 Weeks.	Total under 1 Mth.	1-2 Months.	2-3 Months.	3-4 Months.	4-5 Months.	5-6 Months.	6-7 Months.	7-8 Months.	8-9 Months.	9-10 Months.	10-11 Months.	11-12 Months.	Total Deaths under 1 Year.	
	ALL CAUSES :—																	
Certified	9	10	6	5	30	6	8	4	6	5	5	5	5	2	7	1	84	
Uncertified	12	...	...	1	3	...	...	...	...	...	...	...	...	...	...	...	3
COMMON INFECTIOUS DISEASES :—																		
Small Pox ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chicken Pox ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Measles ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Scarlet Fever ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Diphtheria (including Membranous Croup)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Whooping Cough ... ..	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1
DIARRHEAL DISEASES :—																		
Diarrhœa, all forms ... ..	...	...	1	...	1	...	1	...	...	1	...	2	1	...	1	...	7
Enteritis, Muco-enteritis, Gastro-enteritis	...	...	1	...	1	...	...	...	...	...	1	1	1	...	1	...	5
Gastritis, Gastro-intestinal Catarrh	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	2
WASTING DISEASES :—																		
Premature Birth	8	3	1	2	14	...	...	...	...	...	...	...	...	...	...	...	14
Congenital Defects ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Injury at Birth ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Want of Breast Milk, Starvation	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Atrophy, Debility, Marasmus	...	1	2	...	3	1	4	2	...	2	...	...	...	...	...	...	12
TUBERCULOUS DISEASES :—																		
Tuberculous Meningitis ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
Tuberculous Peritonitis: Tuberculous Mesenterica	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	2
Other Tuberculous Diseases...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	2
OTHER CAUSES :—																		
Erysipelas ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Syphilis ... ..	...	1	...	1	2	...	...	...	...	...	...	...	...	...	...	...	2
Rickets ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Meningitis (not Tuberculous)...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Convulsions	1	...	1	2	1	...	1	...	...	...	...	...	...	...	...	...	4
Bronchitis ... ..	...	...	...	...	...	1	1	1	3	...	...	...	2	...	1	...	9
Laryngitis ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pneumonia ... ..	...	...	1	1	2	2	...	1	1	2	1	...	...	2	1	1	13
Suffocation, overlying	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Other Causes	2	5	...	1	8	1	...	1	...	2	...	...	...	1	...	...	13
	11	10	6	6	33	6	8	4	6	5	5	5	5	5	2	7	1	87

BIRTHS IN THE YEAR { Legitimate ... 785 POPULATION, estimated to
 { Illegitimate... 46 middle of 1908—34,771.

DEATHS IN THE YEAR { Legitimate Infants 78
 { Illegitimate „ 9

DEATHS FROM ALL CAUSES AT ALL AGES—452.

3.—HOME WORK.

NATURE OF WORK. (1)	OUTWORKERS' LISTS, SECTION 107.											Inspections of Outworkers' premises. (13)	OUTWORK IN UNWHOLESOME PREMISES, SECTION 108.			OUTWORK IN INFECTED PREMISES, Sections 109, 110.		
	Lists received from Employers.						Addresses of Outworkers.		Notices served on Occupiers as to keeping or sending lists. (10)	Prosecutions.			Instances (14)	Notices served. (15)	Prosecutions. (16)	Instances (17)	Orders made (S. 110). (18)	Prosecutions (Sections 109, 110). (19)
	Twice in the year.			Once in the year.			Received from other Councils. (8)	Forwarded to other Councils. (9)		Failing to keep or permit inspection of lists. (11)	Failing to send lists. (12)							
	† Lists. (2)	† Outworkers. (3) (4)		Lists. (5)	† Outworkers. (6) (7)													
Wearing Apparel—																		
(1) Making, &c. ...	20	4	20	1	...	3	1	4	...	...	...	22	...	...	...	...	...	...
(2) Cleaning and Washing	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
TOTAL ...	20	4	20	1	...	3	1	4	...	...	...	22	...	...	...	...	...	...

† The figures required in columns 2, 3 and 4 are the total number of lists (received from employers who sent them both in February and August as required by the Act) and of the entries of names of outworkers in those lists. They will, therefore, usually be double of the number of such employers and (approximately) double of the number of individual outworkers whose names are given, since in February and August lists of the same employer the same outworker's name will often be repeated.

4.—REGISTERED WORKSHOPS.		5.—OTHER MATTERS.	
Workshops on the Register (s. 131) at the end of the year. (1)	Number. (2)	Class. (1)	Number. (2)
Workshops ...	255	Matters notified to H.M. Inspector of Factories:—	
Workshop Bakehouses...	31	Failure to affix Abstract of the Factory and Workshop Act (S. 133)	1
Important classes of workshops, such as workshop bakehouses, may be enumerated here.		Action taken in matters referred by H.M. Inspector as remediable under the Public Health Acts, but not under the Factory and Workshop Act (S. 5).	1
		Notified by H.M. Inspector	1
		Reports (of action taken) sent to H.M. Inspector	1
		Other ...	8
		Underground Bakehouses (S. 101):—	
		Certificates granted during the year ...	...
Total number of workshops on Register ...	286	In use at the end of the year ...	5

TABLE V.
Factories, Workshops, Laundries, Work-places and Homework.

1.—INSPECTION.

INCLUDING INSPECTIONS MADE BY SANITARY INSPECTORS OR INSPECTORS OF NUISANCES.

Premises.	Number of		
	Inspections.	Written Notices.	Prosecutions
Factories (Including Factory Laundries.)	11	2	...
Workshops (Including Workshop Laundries.)	298	41	...
Workplaces (Other than Outworkers' premises included in Pt. 3 of this Report.)	20	2	...
Total	329	45	...

2.—DEFECTS FOUND.

Particulars.	Number of Defects.			Number of Prosecutions
	Found.	Remedied	Referred to H.M. Inspector	
<i>Nuisances under the Public Health Acts:—*</i>				
Want of cleanliness	19	19	...	...
Want of ventilation	5	5	...	...
Overcrowding	2	2	...	...
Want of drainage of floors	2	2	...	...
Other nuisances	6	6	...	...
† Sanitary accommodation	3	2	...	...
insufficient	3	2	...	...
unsuitable or defective... ..	15	15	...	...
not separate for sexes ... ..	...	...	...	...
<i>Offences under the Factory and Workshop Act:—</i>				
Illegal occupation of underground bakehouse (s. 101) ... ..	...	...	...	...
Breach of special sanitary requirements for bakehouses (ss. 97 to 100) ... ..	...	...	...	...
Other offences (excluding offences relating to outwork which are included in Part 3 of this Report) ... ..	...	...	...	...
Total	52	51	...	...

* Including those specified in Sections 2, 3, 7 and 8, of the Factory and Workshop Act as remediable under the Public Health Acts.

† Section 22 of the Public Health Acts Amendment Act, 1890, has been adopted by the District Council: the standard of sufficiency and suitability of sanitary accommodation for persons employed in factories and workshops has been enforced, as laid down by the Sanitary Accommodation Order of Feb. 4th, 1903.

TABLE VI.—Boarley Water.

Source of Sample.	Date of Collection.	Total Solids.	Chlorine.	Nitrogen as Nitrates.	Ammonia.		Oxygen absorbed in 4 hrs. at 80° F.	Hardness.		Colour and appearance in 2-ft. tube.	Smell.	Phosphoric Acid.
					Free.	Albuminoid.		Total.	Perman'nt			
4, Gordon Square, King Street	1908. Jan. 7	38.6	2.8	.349	.00	.02	.005	24.3	7.5	clear	none	none
Gathering Grounds	" 13	39.0	2.5	.411	.00	.02	.004	24.4	7.3	"	"	"
15, Albert Street ...	" 20	40.0	2.4	.329	.00	.01	.004	24.5	7.4	"	"	"
1, Oak Yd., King St.	" 27	39.0	2.5	.294	.00	.02	.004	25.2	7.6	"	"	"
19, Tufton Street ...	Feb. 3	39.0	2.5	.329	.00	.02	.005	24.8	5.3	"	"	"
Gathering Grounds	" 11	39.0	2.5	.308	.00	.02	.005	26.0	5.7	"	"	"
56, Marsham Street	" 17	39.6	2.6	.349	.00	.02	.005	25.6	5.6	"	"	"
Gathering Grounds	" 24	38.0	2.6	.382	.00	.02	.005	26.2	5.8	"	"	"
37, Scott Street	Mar. 2	42.0	2.3	.658	.01	.02	.004	22.8	8.5	"	"	faint trace
Gathering Grounds	" 9	38.0	2.2	.460	.00	.03	.004	22.0	9.0	"	"	none
19, Tufton Street ...	" 16	36.0	2.3	.691	.00	.04	.006	22.0	6.5	"	"	"
Gathering Grounds	" 23	42.0	2.6	.362	.00	.02	.004	23.2	8.1	"	"	"
12, Astley Street ...	" 30	40.0	2.5	.411	.00	.03	.004	24.7	8.0	"	"	"
Gathering Grounds	April 6	42.0	2.5	.806	.00	.03	.004	24.8	7.6	"	"	"
81, Perryfield Street	" 13	41.0	2.3	.724	.00	.01	.005	25.7	6.6	"	"	"
Gathering Grounds	" 21	44.0	2.5	.592	.00	.00	.003	22.0	6.7	"	"	"
56, Marsham Street	" 27	38.0	2.5	.773	.00	.04	.003	22.7	8.5	"	"	"
Gathering Grounds	May 4	36.0	2.4	.674	.00	.03	.004	24.2	9.1	"	"	"
5, Boxley Road.....	" 11	38.0	2.3	.691	.00	.02	.004	25.0	8.0	"	"	"
Gathering Grounds	" 18	43.0	2.4	.625	.00	.03	.004	26.2	8.5	"	"	"
6, Camden Street...	" 25	40.0	2.4	.773	.02	.02	.005	26.1	7.8	"	"	"
Gathering Grounds	June 1	41.0	2.1	.724	.00	.02	.004	25.1	9.4	"	"	"
94, Sandling Road	" 10	38.0	2.8	.427	.00	.00	.005	21.4	6.3	"	"	"
Gathering Grounds	" 15	40.0	2.2	.543	.00	.00	.005	25.0	7.1	"	"	"
Ivy Cott., Perry St.	" 22	39.0	2.3	.823	.00	.00	.004	24.8	6.2	"	"	"
Gathering Grounds	" 29	40.0	2.4	.674	.02	.04	.005	26.1	7.8	"	"	"
13, Albert Street ...	July 6	40.0	2.4	.641	.00	.00	.005	25.4	6.6	"	"	"
Gathering Grounds	" 14	39.0	2.6	.381	.00	.00	.005	24.8	7.1	"	"	"
Gordon Sq., King St.	" 20	40.0	2.3	.382	.00	.01	.006	25.2	7.1	"	"	"
Gathering Grounds	" 27	38.0	2.4	.386	.00	.02	.005	24.8	6.8	"	"	"
58, Ashford Road ...	Aug. 4	39.0	2.3	.592	.00	.01	.004	24.9	7.9	"	"	"
Gathering Grounds	" 10	39.0	2.5	.510	.00	.01	.005	25.2	8.4	"	"	"
24, Perry Street ...	" 17	39.0	2.3	.559	.00	.01	.005	23.8	7.2	"	"	"
Gathering Grounds	" 24	40.0	2.5	.477	.00	.02	.004	27.5	7.8	"	"	"
94, Sandling Road...	" 31	39.0	2.1	.460	.00	.01	.004	23.4	6.5	"	"	"
Gathering Grounds	Sept. 3	40.0	2.4	.477	.00	.01	.004	21.4	5.9	"	"	"
14, Perry Street ...	" 14	38.0	2.6	.526	.00	.00	.005	25.5	6.7	"	"	"
Gathering Grounds	" 22	40.0	2.2	.658	.00	.04	.005	25.7	7.1	"	"	"
40, Marsham Street	" 28	40.0	2.4	.625	.00	.02	.005	25.4	6.6	"	"	"
Gathering Grounds	Oct. 6	40.0	2.4	.592	.02	.04	.005	26.8	7.9	"	"	"
20, Perryfield Street	" 12	39.0	2.1	.592	.00	.01	.005	24.8	7.1	"	"	"
Gathering Grounds	" 19	39.5	2.6	.510	.01	.02	.005	24.2	6.8	"	"	"
56, Marsham Street	" 26	40.0	2.6	.564	.00	.02	.004	25.1	6.6	"	"	"
Gathering Grounds	Nov. 2	42.0	2.6	.477	.01	.02	.006	24.2	6.6	"	"	"
Union Pl., Union St.	" 9	4.15	2.3	.460	.02	.04	.005	24.1	6.9	"	"	"
Gathering Grounds	" 16	42.5	2.4	.921	.02	.02	.004	23.6	7.8	"	"	"
50, Brewer Street...	" 23	40.6	2.3	.510	.00	.01	.005	23.7	6.8	"	"	"
Gathering Grounds	Dec. 1	40.8	2.3	.823	.01	.01	.005	23.2	6.5	"	"	"
65, Boxley Road ...	" 7	39.6	2.3	.493	.01	.03	.004	25.2	6.5	"	"	"
Gathering Grounds	" 15	41.0	2.4	.516	.02	.04	.004	24.3	6.4	"	"	"
92, Sandling Road	" 21	40.5	2.2	.855	.02	.04	.004	24.6	6.8	"	"	"
Gathering Grounds	" 29	40.4	2.1	.411	.01	.02	.004	24.5	6.3	"	"	"
	Mean results for 1908	39.76	2.39	.549	.00	.01	.004	24.5	7.1	clear	none	none

All results are given in parts per hundred thousand, except Free and Albuminoid Ammonia, which are in parts per million.

TABLE VII.—Cossington Water.

Source of Sample.	Date of Collection.	Total Solids.	Chlorine.	Nitrogen as Nitrates.	Ammonia.		Oxygen absorbed in 4 hrs. at 80° F.	Hardness.		Colour and appearance in 2-ft. tube.	Smell.	Phosphoric Acid.
					Free.	Albuminoid.		Total.	Perman'nt			
Gathering Grounds	Jan. 7	39.0	2.3	.329	.00	.01	.006	23.7	7.0	clear	none	none
"	" 20	38.8	2.2	.290	.00	.01	.005	23.6	7.0	"	"	"
"	Feb. 3	39.6	2.3	.246	.00	.02	.006	25.2	5.7	"	"	"
"	" 17	38.4	2.7	.283	.00	.02	.006	26.1	5.8	"	"	"
"	Mar. 2	44.0	2.2	.562	.00	.04	.005	23.4	7.1	"	"	Very faint trace.
"	" 16	40.0	2.2	.510	.00	.03	.005	29.0	8.5	"	"	none
"	" 30	34.0	2.3	.592	.00	.04	.005	23.1	7.4	"	"	"
"	April 13	30.0	2.1	.411	.00	.01	.006	24.2	7.5	"	"	"
"	" 27	36.0	2.6	.625	.00	.04	.006	21.0	7.0	"	"	"
"	May 11	39.0	2.2	.493	.00	.01	.003	26.1	8.1	"	"	"
"	" 25	42.0	2.2	.674	.00	.02	.006	24.7	7.4	"	"	"
"	June 10	39.0	2.0	.296	.00	.00	.004	21.1	6.0	"	"	"
"	" 22	39.5	2.1	.641	.00	.00	.005	26.1	6.9	"	"	"
"	July 6	39.5	2.3	.395	.00	.02	.004	24.6	6.2	"	"	"
"	" 20	38.0	2.0	.283	.00	.01	.005	23.9	6.4	"	"	"
"	Aug. 4	40.0	2.4	.279	.00	.01	.005	23.2	7.6	"	"	"
"	" 17	38.0	2.4	.427	.00	.01	.004	22.0	6.8	"	"	"
"	" 31	41.0	2.6	.329	.00	.01	.005	23.7	6.9	"	"	"
"	Sept. 14	39.0	2.3	.312	.00	.00	.006	25.2	6.8	"	"	"
"	" 28	41.0	2.5	.312	.00	.02	.004	26.3	6.9	"	"	"
"	Oct. 12	39.5	2.5	.691	.00	.02	.004	25.2	7.6	"	"	"
"	" 26	41.0	2.4	.312	.00	.02	.005	25.6	5.9	"	"	"
"	Nov. 9	40.0	2.5	.395	.00	.04	.004	23.7	7.3	"	"	"
"	" 23	40.5	2.2	.472	.00	.01	.004	24.2	7.1	"	"	"
"	Dec. 7	40.4	2.2	.239	.01	.04	.006	24.4	6.6	"	"	"
"	" 21	40.8	2.1	.493	.00	.04	.005	25.3	7.3	"	"	"
	Mean results for 1908.	39.4	2.3	.415	.001	.02	.005	25.3	7.3	clear	none	none

All results are given in parts per hundred thousand, except Free and Albuminoid Ammonia, which are in parts per million.

TABLE VIII.—Forstal Water.

Source of Sample.	Date of Collection.	Total Solids.	Chlorine.	Nitrogen as Nitrates.	Ammonia.		Oxygen absorbed in 4 hrs. at 80° F.	Hardness.		Colour and appearance in 2-ft. tube.	Smell.	Phosphoric Acid.
					Free.	Albuminoid.		Total.	Permanent.			
Pumping Station.	Jan. 13	38.6	2.9	.061	.00	.01	.005	25.1	7.6	clear	none	none
"	" 27	39.6	2.8	.032	.00	.01	.004	25.7	7.2	"	"	"
"	Feb. 11	38.2	2.7	.053	.00	.01	.004	25.8	6.1	"	"	"
"	" 24	36.8	2.8	.053	.00	.02	.005	25.4	5.3	"	"	"
"	Mar. 9	42.0	2.8	.092	.00	.03	.005	27.1	9.8	"	"	"
"	" 23	48.0	2.0	.116	.00	.01	.007	30.1	10.1	"	"	"
"	April 6	42.0	3.0	.148	.00	.03	.004	32.5	9.1	"	"	"
"	" 21	48.0	2.7	.082	.00	.00	.003	27.8	9.0	"	"	"
"	May 4	46.0	3.1	.106	.00	.02	.003	32.2	11.2	"	"	"
"	" 18	46.0	2.9	.148	.00	.03	.006	32.6	9.2	"	"	"
"	June 1	42.0	2.7	.181	.00	.01	.004	27.6	9.8	"	"	"
"	" 13	41.5	3.0	.106	.00	.00	.003	33.0	8.4	"	"	"
"	" 29	42.0	2.9	.246	.00	.00	.007	27.5	8.5	"	"	"
"	July 14	40.5	2.2	.049	.00	.00	.003	28.2	8.1	"	"	"
"	" 27	41.0	2.8	.061	.00	.01	.006	29.6	7.4	"	"	"
"	Aug. 10	40.0	3.0	.082	.00	.00	.004	30.8	9.2	"	"	"
"	" 24	42.0	3.1	.131	.01	.02	.004	31.3	8.9	"	"	"
"	Sept. 3	41.0	2.9	.131	.00	.01	.007	26.1	7.2	"	"	"
"	" 3	39.0	2.7	.164	.00	.02	.005	33.2	8.5	"	"	"
"	Oct. 6	42.0	2.8	.148	.00	.02	.007	30.8	8.6	"	"	"
"	" 19	41.0	2.8	.181	.00	.01	.005	30.1	8.5	"	"	"
"	Nov. 2	41.5	3.0	.164	.00	.02	.004	27.5	8.2	"	"	"
"	" 16	42.4	2.7	.197	.00	.01	.004	26.2	8.3	"	"	"
"	" 30	41.2	2.6	.181	.00	.00	.003	27.4	7.3	"	"	"
"	Dec. 15	41.8	2.8	.131	.00	.01	.003	26.8	7.4	"	"	"
"	" 29	41.4	2.8	.148	.00	.01	.006	26.7	7.2	"	"	"
	Mean results for 1908	41.7	2.9	.122	.00	.01	.004	28.7	8.3	clear	none	none

All results are given in parts per hundred thousand, except Free and Albuminoid Ammonia, which are in parts per million.

TABLE IX.—Cossington and Forstal Water.

Source of Sample.	Date of Collection.	Total Solids.	Chlorine.	Nitrogen as Nitrates.	Ammonia.		Oxygen absorbed in 4 hrs. at 80° F.	Hardness.		Colour and appearance in 2-ft. tube.	Smell.	Phosphoric Acid.
					Free.	Albuminoid.		Total.	Permanent			
88. Grecian Street...	Jan. 7	40.0	2.6	.164	.00	.01	.004	25.1	7.7	clear	none	none
2. Fairmeadow.....	" 13	39.6	2.6	.193	.00	.01	.006	23.8	7.1	"	"	"
94. Upper Stone St.	" 20	38.6	2.4	.164	.00	.01	.006	25.1	7.6	"	"	"
50. St. Faith Street	" 27	38.8	2.4	.168	.00	.01	.005	24.4	8.8	"	"	"
60. Hartnup Street	Feb. 3	38.6	2.4	.193	.00	.01	.005	23.9	5.1	"	"	"
20. Mill Street	" 11	40.0	2.4	.160	.00	.02	.005	24.3	5.2	"	"	"
88. Grecian Street...	" 17	39.0	2.5	.172	.00	.01	.004	24.8	5.4	"	"	"
48. King Edward Rd	" 24	38.4	2.5	.164	.00	.02	.006	24.9	5.1	"	"	"
7. Buckland Road...	Mar. 2	40.0	2.6	.362	.02	.04	.006	24.2	6.3	Very slightly turbid.	"	Trace
40. Bower Place.....	" 9	36.0	2.3	.279	.03	.03	.006	23.8	8.0	clear	"	none
1. Fant Lane	" 16	45.5	2.4	.312	.00	.01	.003	26.0	8.1	"	"	"
29. John Street	" 23	38.0	2.3	.362	.00	.01	.005	23.4	6.8	"	"	"
36. Grecian Street...	" 30	36.0	2.2	.362	.00	.02	.004	23.5	7.1	"	"	"
19. Charlton Street	April 6	44.0	2.4	.329	.00	.03	.005	26.6	8.8	"	"	"
"Tunstall." Sheals Crescent	" 13	39.0	2.5	.230	.00	.01	.007	28.4	7.6	"	"	"
28. Charlton Street	" 21	46.0	2.7	.329	.00	.00	.004	24.2	7.1	"	"	"
34. Broadway.....	" 27	39.0	2.3	.543	.00	.04	—	26.5	8.7	"	"	"
52. St. Faith Street	May 4	37.0	2.5	.312	.00	.02	.003	26.0	9.2	"	"	"
"Engadine." Lon.Rd.	" 11	41.0	2.5	.230	.00	.03	.004	27.0	9.2	"	"	"
Barming Asylum...	" 18	41.0	2.3	.460	.00	.03	.005	27.1	8.7	"	"	"
Rose & Crown Yard	" 25	42.0	2.5	.312	.00	.00	.005	27.8	8.1	"	"	"
9. Whitehall Place	June 1	41.5	2.3	.411	.00	.02	.006	26.0	10.2	"	"	"
Slingswood Cott's...	" 10	40.0	2.5	.263	.00	.00	.005	22.5	6.5	"	"	"
120. Upper Fant Rd.	" 15	40.5	2.5	.164	.00	.00	.004	26.5	7.7	"	"	"
20. Thornhill Place	" 22	40.5	2.3	.411	.00	.00	.006	25.2	6.8	"	"	"
34. Boxley Road ...	" 29	42.0	2.5	.411	.00	.02	.006	26.2	7.5	"	"	"
Quarry Square.....	July 6	42.0	2.7	.312	.00	.02	.006	27.2	7.5	"	"	"
16. Warwick Place	" 14	40.0	2.4	.216	.00	.00	.004	25.4	7.8	"	"	"
21. Loose Road	" 20	40.0	2.3	.172	.00	.02	.004	25.7	7.8	"	"	"
32. St. Faith Street	" 27	39.0	2.5	.172	.00	.02	.004	24.5	6.4	"	"	"
36. Charlton Street	Aug. 4	40.0	2.7	.230	.00	.00	.006	28.1	8.5	"	"	"
78. Peel Street	" 10	38.0	2.4	.460	.00	.01	.004	27.1	7.8	"	"	"
1. Melville Road ...	" 17	38.5	2.4	.411	.00	.02	.006	22.5	7.1	"	"	"
15. James Street ...	" 24	42.0	2.4	.296	.00	.01	.003	28.8	8.1	"	"	"
20. Upper Fant Rd.	" 30	40.0	2.5	.197	.00	.00	.003	26.1	7.5	"	"	"
29. John Street	Sept. 3	39.0	2.5	.205	.00	.00	.005	23.3	6.4	"	"	"
Corner of Church Street & Church Road, Tovil.....	" 14	39.0	2.8	.246	.00	.00	.007	27.8	7.2	"	"	"
21. Florence Road...	" 22	40.0	2.3	.329	.00	.02	.006	26.8	7.7	"	"	"
Rose Inn, Mote Rd.	" 28	39.0	2.6	.246	.00	.01	.005	27.7	7.4	"	"	"
9. Waterloo Street...	Oct. 6	40.5	2.4	.329	.02	.03	.006	28.3	8.2	"	"	"
71. Dover Street ...	" 12	41.0	2.6	.296	.00	.01	.006	27.6	8.1	"	"	"
78. Peel Street	" 19	40.0	2.2	.296	.00	.02	.004	25.3	7.1	"	"	"
2. Leonard Terrace	" 26	42.0	2.7	.205	.00	.00	.007	27.4	7.5	"	"	"
Sanatorium	Nov. 2	41.0	2.8	.362	.01	.04	.005	24.8	6.7	"	"	"
4. Gladstone Road...	" 9	39.5	2.6	.263	.00	.04	.005	28.2	8.6	"	"	"
Western Road	" 16	40.6	2.6	.378	.01	.02	.005	23.1	7.4	"	"	"
13. Hardy Street ...	" 23	41.2	2.2	.468	.00	.01	.006	24.6	6.9	"	"	"
"Violet Cottage." Boxley Road	Dec. 1	40.6	2.4	.312	.00	.01	.004	24.6	6.8	"	"	"
23. Gladstone Road	" 7	40.8	2.6	.187	.00	.00	.003	27.0	7.3	"	"	"
81. Mote Road.....	" 15	40.5	2.5	.279	.00	.01	.003	25.8	7.0	"	"	"
34. Milton Street ...	" 21	41.2	2.6	.329	.00	.00	.003	25.9	7.4	"	"	"
Health Departm't	" 29	41.2	2.5	.246	.00	.01	.005	25.8	6.9	"	"	"
Mean results for 1908.		41.6	2.4	.282	.00	.01	.004	25.7	7.4	clear	none	none

All results are given in parts per hundred thousand, except Free and Albuminoid Ammonia, which are in parts per million.

TABLE X.—Monthly Record of Meteorology.

(Taken at the Borough Surveyor's Office.)

MONTH.	Mean Reading of Barometer.	Mean of Max. of Thermometer.	Mean of Min. of Thermometer.	RELATIVE PROPORTION OF WIND.								RAINFALL.	NO. OF DAYS ON WHICH 01 OR MORE FEEL.
				N.	N.E.	N.W.	S.	S.E.	S.W.	E.	W.		
January	30.05	Degrees. 41	Degrees. 29	3	2	3	3	8	7	4	1	1.34	11
February	29.99	46	33	...	...	5	4	...	11	...	9	1.22	14
March	30.03	46	33	1	...	7	4	3	10	...	6	2.00	18
April	30.08	49	38	4	5	7	2	3	4	...	5	2.29	16
May	29.71	65	49	1	3	1	4	1	15	1	5	2.40	8
June	29.68	68	53	1	5	11	4	1	7	1	...	1.18	7
July	29.61	70	56	1	5	7	2	2	12	...	2	3.16	12
August	29.63	67	53	1	2	14	1	...	11	...	2	3.78	16
September	29.70	61	50	...	1	3	3	3	16	...	4	.90	14
October	29.88	59	46	...	1	4	7	7	11	...	1	1.80	11
November	29.88	49	37	...	3	4	4	3	13	...	3	1.02	11
December	29.70	41	35	...	...	2	6	13	10	...	...	2.28	19
Means	29.82	55	42	12	27	68	44	44	127	6	38	22.37	157