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Annual Report

ON

→ **THE HEALTH** ←

OF THE

BOROUGH OF DEAL,

EAST-K

FOR THE YEAR

1904,




BY

RICHARD LYDDON,

Medical Officer of Health.

T. F. Pain & Sons, Printers, Deal and Sandwich.



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**To the Mayor, Aldermen and Councillors of
the Borough of Deal, being the Urban
District Council for the said Borough.**

GENTLEMEN,

I beg to present my Annual Report for the year 1904, dealing with the sanitation of the Borough, and containing a summary of its vital statistics for the period.

A feature in the Report is our comparative freedom from cases of infectious disease, only 21 notifications having been received during the year, against 103 during the previous year.

Population and Area.

In 1891, the population of Deal was 8,891, and 10,581 in 1901; an increase of 1,690 inhabitants during the intercensal period, or 169 yearly. Assuming this average to be still correct, the estimated population for April, 1904, is 11,088; and for July, the mid-period of the year, taken for statistical purposes, 11,130. The area of the Borough is 1,158 acres.

Births.

The number of births registered during the year was 273, 138 being males and 135 females. The birth-rate was 24·5 per thousand, and the natural increase of population by births in excess of deaths, 95.

Deaths.

There were 174 deaths registered in the district during the year. Of this number, 16 were either visitors, or patients brought into our hospitals from without the district. In addition to these, 20 of our own residents died in public institutions beyond the district. By a process of elimination and

addition, the nett number of deaths, at all ages, belonging to the district, becomes 178, and the death-rate 15·9 per thousand. By the term "visitors," is understood persons living elsewhere, who have no home in the district. The hospitals within the Borough are the Royal Marine Infirmary, the Victoria Cottage Hospital, and the Isolation Hospital; and those without, which have been taken into consideration in preparing these returns, are the Workhouse at Eastry, and the Lunatic Asylum at Chartham.

The rate of infant mortality, *i.e.*, the proportion of deaths among infants under one year of age to births registered, was 102 per thousand.

The zymotic death-rate, calculated from the number of deaths due to the seven principal epidemic diseases, was 0·8.

The subjoined statistics, which were published by the *British Medical Journal*, from information furnished by the Registrar-General, may be found useful. For purposes of comparison, those of our Borough are added:—

ENGLAND AND WALES, 1904.

Annual Birth-rates and Death-rates from the Seven Chief Epidemic Diseases.

	Annual Rates per 1,000 Living.			Infant Mortality: Annual Death-rate of Infants under 1 year per 1,000 Births.
	Births	Deaths from all Causes	Deaths from Seven Chief Epidemic Diseases	
England and Wales	27·9	16·2	1·94	146
Rural England and Wales...	26·8	15·3	1·28	125
76 great towns	29·1	17·2	2·49	160
142 smaller towns.....	27·5	15·6	2·02	154
Deal.....	24·5	15·9	0·8	102

Deaths by Misadventure.

There were 4 cases of accidental death registered, and 1 of suicide.

Further particulars as to the causes of, and ages at death will be found in one of the tables at the end of the Report.

Infectious Disease.

Comparatively few notifications of Infectious Disease have been received during the year. They were as follows:—

Diphtheria	7
Erysipelas	4
Scarlet Fever	3
Enteric Fever	7
	—
Total	21

Three of these were removed to the Isolation Hospital, and the remainder either treated in their own homes, or at one or other of the Institutions within the district. The deaths due to infectious disease consisted of—1 whooping cough, 1 diphtheria, 1 enteric fever, and 6 from diarrhoea (which is not notifiable, but increases the zymotic death-rate).

Water Supply.

The Waterworks are situated on the hill between Upper Deal and Walmer, and are the property of the town. The undertaking is managed by a Joint Board, composed of members of the District Councils of Deal and Walmer. The water is obtained from deep wells and adits driven into the chalk, is pumped into a reservoir, from which a constant supply gravitates to the various parts of the district. Samples are taken periodically, and sent for chemical and bacteriological analysis. Appended are the analytical reports:—

(Copy).

LISTER INSTITUTE OF PREVENTIVE MEDICINE.

14th December, 1904.

*Report on Examination of a Sample of Water received from Deal
on 28th November, 1904.*

The Sample was marked :— "Standpipe, South Street, Deal.
7.30 a.m., 28/11/04."

GENERAL CHARACTERISTICS.—The Sample was clear and free from smell.

ANALYTICAL DATA.—		PARTS PER 100,000.	
Suspended Matter	... ..	...	...
Dissolved Solids	... ..	...	33.4
Chlorine	... ..	...	2.8
Alkalinity	... ..	...	20.5
Permanent Hardness	... ..	...	3.5
Free and Saline Ammonia	.. ..	...	trace
Albuminoid Ammonia	... ..	...	0.001
Nitrogen as Nitrites...	... ..	...	none
Nitrogen as Nitrates	... ..	...	0.59
Oxygen absorbed from Permanganate at 80° F.—			
	(a) 15 minutes	... ..	...
	(b) 4 hours	... ..	none
Lead	... ..	...	none

ARTHUR HARDEN.

(Copy).

THE CLINICAL RESEARCH ASSOCIATION, LIMITED,
1, Southwark Street,
London Bridge, S.E.
Dec. 12th, 1904.

Laboratory Report.

To T. C. Golder, Esq.

The specimen marked, from Waterworks Reservoir, received here on 2/12/04, has been duly examined, and I have been instructed to forward the following report thereon :—

The number of organisms which produce colonies on gelatine

plates incubated at 19° Cent., is 61 per cubic centimetre of the water, and the *Bacillus Coli Communis* is absent from the various samples taken for the qualitative investigation, the total amount of water examined being equal to 36·2 cubic centimetres.

From a bacteriological point of view, this may be regarded as a water of very good quality.

C. H. WELLS,
Secretary of the Association.

Drainage.

The costly system of drainage, which was carried out a few years ago, is acting well. Only on exceptional occasions has the rain-fall been such that the sewers have been found inadequate to deal with it, and carry it away fast enough to prevent a rising in the low-lying parts of the district. On these rare occasions, the rain for a short space of time has been torrential, and no ordinary system of drainage could possibly cope with such a fall.

The following description of the system has already appeared in my Annual Report. I reproduce it for purposes of ready reference:—"The drainage of Deal has been lately remodelled. Formerly, the sewage was carried by gravitation into the sea, and discharged by two outfalls, one at the north end of the town and the other at the south. These outfalls were a nuisance, and polluted the foreshore; and being tide-locked at high water, were inadequate to deal with the storm water which was occasionally poured into them under such conditions. To remedy these defects, and to provide for the drainage of Upper and Middle Deal, a new system was planned a few years ago by Mr. Baldwin Latham, and has since been completed under his supervision. The whole of the sewage of the district is now carried by gravitation to a suitable point, where it is raised by pumping into a covered reservoir capable of holding about 600,000 gallons. The outfall springs from the north-east corner of

this reservoir. It is formed of cast-iron pipes, 27 inches in diameter, and extends into the sea 500 feet from low water mark. The outlet from the reservoir is protected and regulated by two penstock tidal valves. The time selected for the discharge of the sewage is at high-water, when the tide is running in a northerly direction. It is estimated that the tank can be emptied in two hours, and as the contents are discharged, they are taken by the off-setting tide in a north-easterly direction, towards the North Sea. The scheme answers well, and the whole of the district is now provided with a perfect system of water-carriage drainage."

Factory and Workshop Act, 1901.

As required by this Act, the factories, workshops, work-places and home-workers' premises, situate within the district, have been inspected by the Sanitary Officers, and any defects found dealt with. Only one underground bakehouse exists, and for this a certificate has been granted: the place being of the nature of an under-ground kitchen, and the sanitary condition good.

The inspections which have been made will be found tabulated in an annexed schedule.

Physical Features of the District and Climate.

The low-lying portion of the district is flat, and on a level with the sea-shore. The soil here consists of sand, shingle, or clay. The land rises gently to Upper Deal, where chalk is found, which extends through the hills to Walmer and the surrounding district. The climate is bracing, and suitable for the treatment of chronic diseases of a tuberculous nature. The prevailing winds are south-west and north-east. The rainfall for the year was 22·47 inches.

During the year, some interesting records have been made of the temperature of the sea at Deal. The observations were taken by Mr. Samuel Miller, to whom I am indebted for

the following information. The thermometer used was supplied by Casella, and duly tested and certified at Kew. The time chosen for taking the observations was 10 a.m., daily. A summary of the readings is as follows:—

	July.	Aug.	Sept.	Oct.
Highest reading in month	65·1 deg. Fah.	66·0 deg.	62·0 deg.	58·1 deg.
Lowest reading in month	60·0 deg. Fah.	60·0 deg.	54·1 deg.	51·1 deg.
Range of temperature.....	2·1 deg Fah.	6·0 deg.	7·9 deg	7·0 deg.
Mean temperature	63·7 deg. Fah.	62·6 deg	59·0 deg.	54·7 deg.

Sanitary Inspector's Department.

The common lodging-houses, slaughter-houses, cow-sheds, dairies, and milk-shops, have all been periodically inspected, and found to be in good order. A systematic house to house inspection of the district has been continued, and defects in sanitation remedied where found. Nuisances, where reported, have been investigated and dealt with.

Vital Statistics.

I conclude my Report with the schedules of vital statistics, which are provided by the Local Government Board. The first table deals with the subject for 1903, and for the previous years during which I have held the appointment of Medical Officer. Table 3 deals with the cases of infectious disease notified during the year, and table 4 gives the causes of, and ages at, death for the same term. The remaining table deals with inspections under the Factory Act.

I am, Gentlemen,

Your obedient servant,

Deal, 28th March, 1905.

RICHARD LYDDON.

Factories, Workshops, Laundries, Workplaces & Homework

1.—INSPECTION.

Including inspections made by Sanitary Inspectors or Inspectors of Nuisances.

Premises.	Number of		
	Inspections.	Written Notices.	Prosecutions.
Factories (Including Factory Laundries).	26	2	None.
Workshops (Including Workshop Laundries).	51	10	„
Workplaces	18	4	„
Homeworkers' Premises	7	3	„

2.—DEFECTS FOUND.

Particulars.	No. of Defects.	
	Found.	Remedied.
Nuisances under the Public Health Acts :—		
Want of cleanliness	16	Yes.
Want of ventilation	2	„
Overcrowding	1	„
Offences under the Factory and Workshop Act :—		
Illegal occupation of underground bakehouse (S. 101).	1	„

3.—OTHER MATTERS.

Underground Bakehouses (S. 101) :—	
Certificates granted in 1904	One
Kitchen in use at the end of 1904	One
Workshops on the Register (S. 131) at the end of 1904 :—	
There are twenty-two bakehouses where machinery is not used.	
Total number of workshops on Register ...	38

TABLE I.
Vital Statistics of Whole District during 1904 and previous years.

YEAR.	Popula- tion estimated to Middle of each Year.	BIRTHS.		TOTAL DEATHS REGISTERED IN THE DISTRICT.			TOTAL DEATHS IN PUBLIC INSTITU- TIONS IN THE DISTRICT.	Deaths of Non- residents registered in Public Institu- tions in the District. 10	Deaths of Residents registered in Public Institu- tions beyond the District. 11	NETT DEATHS AT ALL AGES BELONGING TO THE DISTRICT.		
		Number	Rate*	At all ages		Number				Rate*		
				Under 1 year of age	Rate per 1,000 Births registered							
1	2	3	4	5	6	7	8	9	10	11	12	13
1896.	9,778	226	23.1	30	132	126	12.8	3	12	12	135	13.8
1897.	9,947	228	22.9	21	92	153	15.5	11	10	10	152	15.5
1898.	10,116	214	21.1	33	154	170	16.8	15	10	10	165	16.3
1899.	10,285	249	24.2	29	116	162	15.7	9	10	10	163	15.7
1900.	10,454	244	23.3	28	114	162	15.5	12	17	17	166	15.8
1901.	10,623	250	23.5	39	140	173	16.3	23	12	12	165	15.5
1902.	10,792	283	26.2	22	77	167	15.4	17	11	11	161	14.9
1903.	10,961	256	23.3	24	93	154	14.0	22	15	15	149	13.5
Averages for years 1896-1903.	10,369	243	23.4	28	114	158	15.5	14	12	12	157	15.1
1904.	11,130	273	24.5	28	102	174	15.6	22	20	20	178	15.9

* Rates in Columns 4, 8, and 13 calculated per 1,000 of estimated population.

NOTE.—The deaths to be 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 to be 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-residents" is meant persons brought into the district on account of sickness or infirmity, and dying in public institutions there; 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.

The "Public institutions" to be taken into account for the purposes of these Tables are those into which persons are habitually received on account of sickness or infirmity, such as hospitals, workhouses, and lunatic asylums. A list of the Institutions in respect of the deaths in which corrections have been made should be given on the back of this Table.

Area of District in acres (exclusive of area covered by water) } 1,158.
 Total population at all ages 10,581 } At Census
 Number of inhabited houses 2,342 } of
 Average number of persons per house 4.5 } 1901.

I. Institutions within the District receiving sick and infirm persons from outside the District.	II. Institutions outside the District receiving sick and infirm persons from the District.	III. Other Institutions, the deaths in which have been distributed among the several localities in the District.
Victoria Hospital..... Royal Marine Infirmery Isolation Hospital ... Visitors to district ...	Eastry Workhouse ...	

TABLE 3.

Cases of Infectious Disease notified during
the Year 1904.

NOTIFIABLE DISEASE.	CASES NOTIFIED IN WHOLE DISTRICT.						No. of Cases Removed to Hospital from each locality.
	At all ages.	At Ages—Years.					
		Under 1.	1 to 5.	5 to 15.	15 to 25.	25 to 65.		65 and upwards
Small-pox							
Cholera							
Diphtheria... ..	7		2	4		1	3
Membranous croup...							
Erysipelas	4			1		3	
Scarlet fever	3		1	1	1		
Typhus fever							
Enteric fever	7				5	2	
Relapsing fever ...							
Continued fever.. ...							
Puerperal fever... ..							
Plague							
Totals... ..	21		3	6	6	6	3

Isolation Hospital:

DEAL AND WALMER SANITORIUM.

TABLE 4.

Causes of, and Ages at, Death during Year 1904.

CAUSES OF DEATH.	Deaths in whole District at subjoined Ages.							Deaths in Public Institutions.
	All ages.	Under 1 year.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and upwards	
Measles								1
Whooping-cough	1		1					
Diphtheria and membranous croup	1		1					1
Enteric fever	1					1		1
Diarrhœa	6	6						1
Enteritis	2	2						1
Phthisis	13	1	1		1	9	1	3
Other tubercular diseases	5	3		1		1		3
Cancer, malignant disease	12					5	7	2
Bronchitis	11	1				2	8	
Pneumonia	5	1		1		2	1	1
Other diseases of Respiratory organs	8	3				1	4	
Alcoholism } Cirrhosis of liver }	8					5	3	1
Venereal diseases	1	1						
Premature birth... ..	3	3						
Diseases and accidents of parturition	1					1		
Heart diseases	24			1		12	11	
Accidents	4			1	1	1	1	1
Suicides	1					1		
All other causes... ..	71	8		2	1	14	46	6
All causes	178	29	3	6	3	55	82	22

