[Report 1904] / Medical Officer of Health, Cardiff County Borough & Port.

Contributors

Cardiff (Wales). County Borough Council.

Publication/Creation

1904

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ANNUAL REPORT

OF THE

MEDICAL OFFICER OF HEALTH

FOR THE

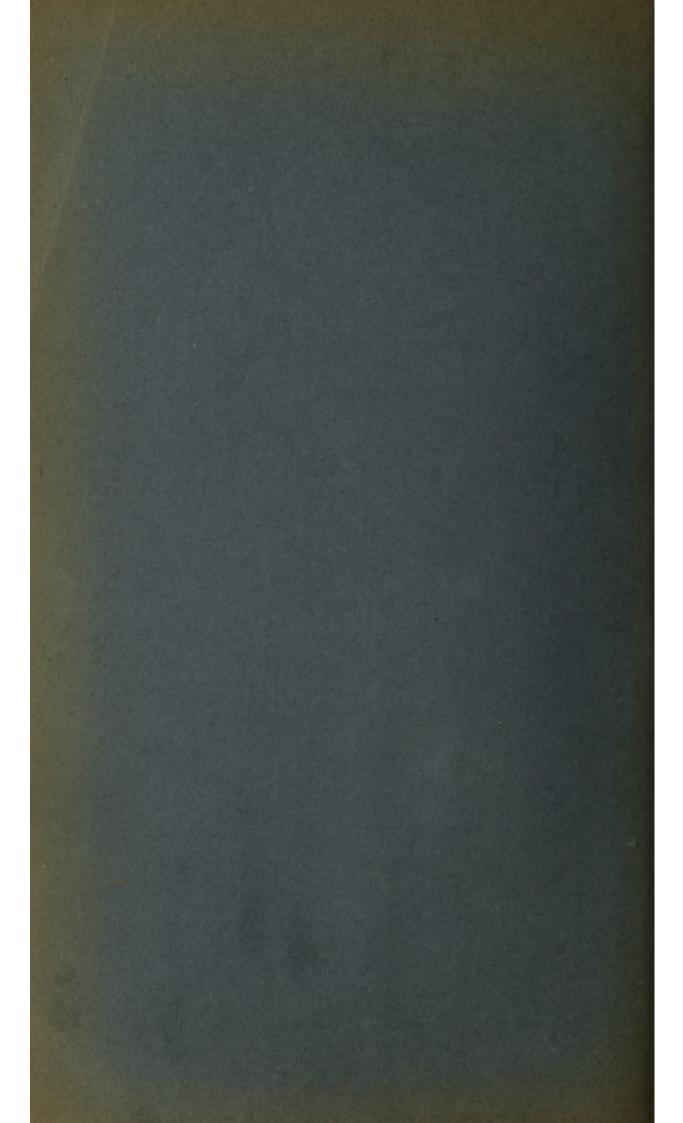
COUNTY BOROUGH OF CARDIFF,

FOR THE YEAR 1904.

MEDICAL RESUMBIOH OOUNOIL

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CARDIFF: WESTERN MAIL, LIMITED. 1905.





ANNUAL REPORT

OF THE

MEDICAL OFFICER OF HEALTH

FOR THE

COUNTY BOROUGH OF CARDIFF,

FOR THE YEAR 1904,

EDWARD WALFORD, M.D., Durh.,
D.P.H., Camb., Fellow of the Sanitary Institute,
Medical Officer of Health.

Printed by Order of the Sanitary Authority.

CARDIFF:
western mail, limited.
1905.



COUNTY BOROUGH OF CARDIFF.

Health and Port Sanitary Committee.

Mayor

ALDERMAN ROBERT HUGHES, J.P. (DEPUTY-CHAIRMAN)

Chairman .

ALDERMAN T. WINDSOR JACOBS, J.P.

ALDERMAN	P. W. CAREY, J.P.	COUNCILLOR	JAS. ROBINSON.
,,	JOHN JENKINS, J.P.	,,	F. G. L. DAVIS.
COUNCILLOF	R J. RAMSDALE, J.P.	,,	F. J. NICHOLLS.
*,	W. S. CROSSMAN, J.P.	,,	R. J. SMITH.
,,	LEWIS MORGAN.	,,	W. H. RENWICK, J F
,,	JOHN CHAPPELL.	,,	JOSEPH STANFIELD.

COUNTY BOROUGH OF CARDIFF.

Medical Officer of Health's Department.

Medical Officer of Health: EDWARD WALFORD, M.D., D.P.H.

Chief Inspector of Nuisances:
D. VAUGHAN.

District Inspectors :

T. W. WARREN.*

W. FISHER.*

S. EVANS.*

J. STRANGE.*

F. GLOVER.*

S. JEFFERY.*

Inspectors of Infectious Diseases:

GEO. THOMAS.*

A. F. MALE.*

Assistant Inspector of Infectious Diseases and Clerk:
T. CHANT.*

Inspector of Lodging Houses:
J. W. HOLDEN.*

Inspector of Dairies, Cowsheds, and Milkshops, and under Sale of Food and Drugs Acts:
A. J. GREEN.

Inspector under Shop Hours Act, and Inspector of Workshops:

J. ASHMAN.*

Inspector of Meat and other Foods:
G. M. McGREGOR.*†

Woman Inspector: Miss A. HOYLE.*

Disinfectors at Disinfecting Station:

W. THOMAS.

W. WEBSTER.

Disinfector :

F. DAVEY.

Clerk :

W. JENKINS.

* Cert. of San. Inst.

† Cert. Meat Insp.

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COUNTY BOROUGH OF CARDIFF.

Town Hall, Cardiff,

May, 1905.

TO THE CHAIRMAN AND MEMBERS OF THE

HEALTH AND PORT SANITARY COMMITTEE.

GENTLEMEN,

I have the honour of submitting to you my Report for the year 1904, made in accordance with Article 18 (Section 14) of the Local Government Board's Order of March, 1891, which specifies the information to be contained in the Annual Report of the Medical Officer of Health, as follows—

"He shall make an annual report to the Sanitary Authority, up to the end of December in each year, comprising a summary of the action taken, or which he has advised the Sanitary Authority to take, during the year for preventing the spread of disease, and an account of the sanitary state of his district generally at the end of the year. The report shall also contain an account of the inquiries which he has made as to conditions injurious to health existing in the district, and of the proceedings in which he has taken part or advised under any Statute, so far as such proceedings relate to those conditions; and also an account of the supervision exercised by him, or on his advice, for sanitary purposes over places and houses that the Sanitary Authority have power to regulate, with the nature and results of any proceedings which may have been so required and taken in respect of the same during the year. The report shall also record the action taken by him, or on his advice, during the year, in regard to offensive trades, to dairies, cowsheds, and milk shops, and to factories and workshops.

"The report shall also contain tabular statements (on forms to be supplied by us, or to "the like effect) of the sickness and mortality within the district, classified according to diseases, "ages, and localities."

Under Section 132 of the Factory and Workshop Act 1901, the Medical Officer of Health is also required to report annually on the administration of this Act in workshops and workplaces, and to send a copy of his annual report, or so much of it as deals with this subject, to the Secretary of State. The report should also include an account of the action with respect to factories, workshops, and workplaces taken under the Public Health Acts, as well as under the Factory and Workshop Act 1901, and should contain a record of any certificates of suitability which have been granted by the Sanitary Authority during the year with respect to underground bakehouses in use at the passing of this Act.

Besides and beyond the Statutory duties set forth in the above-mentioned Order of the Local Government Board, the Medical Officer of Health has during the year advised and carried out work at the request of the Education Committee, and of the Local Supervising Authority under the Midwives Act 1902. A summary of the action taken on behalf of these two bodies will be contained in this report.

In a memorandum issued by Mr. W. H. Power, C.B., the Medical Officer of the Local Government Board, dated October, 1904, the subjects concerning which the Board desire to obtain information are enumerated as follows:—

- (1) Physical features and general character of the district.
- (2) House accommodation, especially for the working classes; its adequacy and fitness for habitation; sufficiency of open space about houses, and cleanliness of surroundings.

- (3) Sewerage and drainage: its sufficiency in all parts of the district. Condition of sewers and house drains. Method or methods of disposal of sewage. Localities where improvements are needed.
- (4) Excrement disposal: system in vogue; defects, if any.
- (5) Removal and disposal of house refuse: whether by public scavenger or occupiers; frequency and method.
- (6) Water supply of the district or its several parts: its source (from public service or otherwise), nature (river water, well water, upland water, &c.), sufficiency, wholesomeness, and freedom (by special treatment or otherwise) from risks of pollution.
- (7) Places over which the Council have supervision, e.g., lodging houses, slaughter houses, dairies, cowsheds, and milk shops, bakehouses, factories and workshops, and offensive trades.
- (8) Nuisances: proceedings for their abatement—any remaining unabated.
- (9) Methods of dealing with infectious diseases: notification, isolation hospital accommodation, and its sufficiency; disinfection.

In addition to the above, the report will contain statistical returns relating to the mortality and sickness in the district during past years, and during the year under consideration.

PHYSICAL FEATURES OF DISTRICT.—An account of the geology of the District was inserted in the report for the year 1903, it will therefore be unnecessary to repeat in detail the information upon this subject given therein.

The County Borough of Cardiff comprises 6,373 acres of land and inland water, exclusive of foreshore and tidal water, and is situated upon impervious strata consisting for the most part of new red marl; resting upon this formation are the more superficial deposits of river gravel, more or less saturated with water. A gradual rise in the gravel takes place towards the north, so as to attain a level of nearly 40 feet above Ordnance Datum in Queen Street and the Newport Road, and 50 feet at Cathays, where, resting on the red marl, it forms a deposit to a depth varying from 8 to 20 feet of good building land, upon which the greater part of the north-east side of the town is constructed. The part of the town situated on the West of the River Taff is, in the northern or Canton district, on an alluvial deposit of clay, sand, and gravel; the southern, or Grangetown ward being on the estuarine mud—a stiff blue clay of marine origin, which forms also the soil in the neighbourhood of the Docks and South Splott. This low-lying part of the town is now protected from the sea and tidal waters by banks, and has in many parts been raised by the deposit of made soil composed of ashes and house refuse collected by the public scavengers. The southern part of the town therefore consists of alluvial land at a very slight elevation above the ordinary sea level near the mouths of the Rivers Rhymney, Taff, and Ely.

The Rhymney and Ely, at the points at which they enter the Bristol Channel, forming respectively the eastern and western limits of the Borough; the Taff flowing in a southerly direction forms a natural division of the town into east and west, each having a separate drainage system.

The area of the Borough is distributed in Registration Sub-districts as follows:—East Cardiff 481 acres, Central Cardiff 3,832 acres, and West Cardiff 2,060 acres, and into Ten Municipal Wards, containing the civil parishes of Canton, Roath, St. John, and St. Mary.

Cardiff is well provided with parks and open spaces, forming admirable recreation grounds and breathing spaces for the inhabitants of the crowded parts of the town. Those places, which belong to the public and are under the control of the Cardiff Corporation, comprise a total area of nearly 300 acres, as follows:—

					Acreage Ac.	e, Exe	elusi R.	ve of	Roads. P.
Roath Park (part of)					100		0		0
Victoria Park					19		2		36
Canton Park					12		0		0
Loudoun Square					1		1		36
Howard Gardens					1		0		36
Adamsdown Square					0		1		32
Plasturton Gardens					0		2		39
Despenser ,,					0		3		23
Clare "					0		0		$36\frac{1}{2}$
Moorland ,,					1		2		$5\frac{1}{2}$
Grangetown ,,					3		0		31
Llanbleddian ,,					0		0		37
Ruthin .,			1.0		0		0		28
Senghenydd ,, (North)				1.00	0		1		7
,, ,, (South)			**		0		0		12
Windsor Esplanade Gardens	3	***			0		1		18
Roath Village Green					0		0		27
Roath Open Space		4.6	11		3		0		0
Splott Recreation Ground		**			18		0		0
Llandaff Fields					70		3		2
Cathays Park					60		0		0
			Total		294		2		6

In addition to the above-named open spaces, the public has, through the generosity of the owners, free access to the following parks and fields —

			Ac.	R.	Р.
Sophia Gardens	 	 	41	3	0
Sir David's Field	 	 	9	0	0
Cardiff Arms Park	 	 	21	2	0

HOUSE ACCOMMODATION.—The following table gives the number of houses within each Municipal Ward in the Borough of Cardiff, as shown by the enumeration made in June, 1904, by the Inspectors in the Department of the Medical Officer of Health:—

TABLE I.

WAR	ng		Area		Hot	JSES.		POPULATION.
N ALL	1/3.		in Acres.	Inhabited.	Vacant.	Building.	Total.	FORCEATION
Central			473	1,947	408	2	2,357	11,292
South			519	1,842	104		1,946	10,683
Cathays			369	3,606	67	31	3,704	20,914
Adamsdown		***	1,570	2,126	127		2,253	12,330
Riverside	***		313	3,127	110	5	3,242	18,136
Canton			449	4,090	103	24	4,217	23,722
Grangetown			1,905	3,373	149		3,522	19,563
Roath			766	2,730	82	22	2,834	15,834
Park			533	4,410	80	28	4,518	25,578
Splott			1,454	2,848	104	-	- 2,952	16,518
TOTALS			8,351 ·	30,099	1,334	112	81,545	174,574

TABLE II.

Taken from the Census returns—shows the number of inhabited houses and population in Registration Sub-Districts in 1891 and 1901:—

Registration Sub-Districts.	Area in Statute Acres. Land and	Inhabited	l Houses.	Enumerated	Population.	Increase of Pop between 185	ulation
	Inland Water.	1891	1901	1891	1901	Increase.	Decrease
East Cardiff	 481	5,838	9,297	35,294	52,585	17,291	_
Central Cardiff	 3,832	8,102	8.835	53,824	54,316	492	-
West Cardiff	 2,060	6,536	9,843	39,797	57,432	17,635	

The following table, taken from the Census returns of 1901, shows the total tenements, and tenements of less than five rooms, distinguishing those occupied by various numbers of persons, in the County Borough of Cardiff:—

TABLE III.

	Rooms	Tenements			-1	ERSON	S PER	TENE	MENT.			
	in Tenements	less than	1	2	3	4	5	6	7	8	9	10 or more
Total tenements, 33,824	1 2	720 4,251	448 784	197 1,590	60 1,029	11 541	3 213	1 67	_ 15	- 8	- 3	-
Tenements of less than 5 rooms 721	3 4	2,121 4,087	81 65	442 529	509 758	402 821	329 715	177 546	108 313	50 183	17	6 56

Cardiff being for the most part a comparatively new town, the housing accommodation for the working classes is on the whole satisfactory, and overcrowding does not exist to any extent. A few cases, however, come to the notice of the Sanitary Officers from time to time. No legal definition of overcrowding exists, except in the case of premises under the control of bye-laws, as for instance common lodging houses and seamen's boarding houses, and in the case of workshops in the terms of the Factory and Workshops Act.

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1

80

110 数

No

For the purposes of the Census, the Registrar General defines overcrowding as being the occupation of a dwelling with more than two adults to each room, counting two children under 12 years of age as equivalent to one adult. From the above table it will be seen that out of 720 one-roomed tenements, not more than 75 are occupied by more than two persons, and 60 of these are occupied by three persons, it is evident therefore that overcrowding does not occur in many of these tenements. In the Census returns relating to occupied tenements, adults are not distinguished from children, so that we may fairly assume that no very serious overcrowding exists unless the average number of persons per room exceeds three. Adopting this standard, Cardiff compares favourably with some of the large towns, in which the difficulty of housing the poor, in a satisfactory manner, is acutely felt. This will be seen from the following table which gives, in several towns, the percentage proportion of the one and two-roomed tenements, respectively, containing more than three persons per room:—

TABLE IV.

Birmingham	 1	room	tenements	 5.5% mor	re than	3 persons	per room.
,,	 2	"	,,	 3.6%	,,	"	,,
Bristol	 1	"	,,	 3.7%	,,	.,,	33
"	 2	**	,,	 .9%	33	- 11	,,
Newcastle	 1	22	"	 33.9%	11	"	31
71	 2	**	**	 16%	**	***	,,
Liverpool	 1	,,,	,,,	 11%		**	
"	 2	**	,,	 4.1%	33	11	,,
Manchester	 1	22	,,	 6.1%	,,	,,	
. ,,	 2	.,,	**	 3.2%	,,	**	,,
Salford	 1	- >>	.,,	 10%	**	11	,,
13	 2			 5.3%	11	**	.52
Durham	 1	.,		 24%	**	.,	11
- "	 2	**	.,	 14%	,,,	,,,	,,
Cardiff	 1	.,,	**	 2%	22	"	,,
22	 2	33	23	 .6%	**	**	"

The following table shows the density of the population, or the average number of persons per acre of ground, within the Borough:—

TABLE V

COUNTY BOROUGH OF CARDIFF.

*	DEVSITY	OF	POPULATION	DURING	THE	PAST '	Fex !	VEARS

Year.			Persons per Acre
1895	 		22.4
1896	 		22.9
1897	 		23.5
1898	 	***	24.1
1899	 		24.7
1900	 		25.3
1901	 		25.9
1902	 		26.5
1903	 		27:0
1904	 		27.6

^{*} Calculated on the basis of the revised population, and on area of 6,373 acres.

From an inspection of the District made in June, 1904, it was found that there were 1,334 vacant houses, and that 112 were in the process of building, there is therefore at the present time no lack of house accommodation in the town. Large block tenemented artizans dwellings, so objectionable on account of the overcrowding on a limited area which results, do not exist in Cardiff. Most of the working class families occupy separate dwellings, with an open space in the back and front, and sub-let one or two rooms to lodgers or other small families. Private Building Companies have, in some quarters of the town, i.e., Grangetown and Adamsdown, provided single tenement cottages, in which no lodgers are taken, at a rental of about 5/- per week. These houses provide excellent accommodation, containing usually four rooms in each house, and are seldom unoccupied for any length of time. The number of houses and shops built in the Borough in each year since 1894 is shown in the following table:—

TABLE VI.

From	August,	1894	to	August,	1895		1,507
,,	,,	1895	,,	,,	1896		1,196
11	11	1896	,,	***	1897	* *	1,247
*5	**	1897			1898		1,258
		1898	**	,,	1899		624
33	.,	1899	,,	,,	1900		267
11	11	1900	17	,,	1901		230
,,	**	1901	11		1902		185
11		1902	11		1903		398
,,	,,	1903	,,		1904		225

There are no large insanitary areas in the Borough which could be conveniently dealt with for the purposes of an Improvement Scheme, under Part I. of the Housing of the Working Classes Act, 1890, but a considerable number of houses have been closed as unfit for human habitation, under the provisions of Part II. of the Act. Amongst the dwellings which have been permanently closed (since 1890) either by a closing order as provided by Sec. 32 of the Act, or by the voluntary action of the owner after initial proceedings by the Sanitary Authority may be mentioned:—Mill Lane Court, 34 houses in Stanley Street, 12 houses in Leckwith Road, Kettle Court, Evans' Court, Union Buildings, Sandon Court, Dalton Court, Rising Sun Court, Jones' Court (Womanby Street), The Tunnel (Queen Street), Temperance Terrace (Working Street) Queen's Place, Masons' Arms Court, Love Lane Court, Castle Court, Moulders' Arms Court, Bryants' Court, Matthews' Court, Stacey Court, Picton Cottages, Stag Terrace, Jenkins' Court, Gullivers' Court, Evans' Court, Jonathans' Court, and Spring Garden Court.

Some difficulty occasionally occurred in the administration of this Act, as it was necessary in all cases, before applying to the Court of Summary Jurisdiction for a closing order, to serve a notice upon the owner or occupier of the house to abate a nuisance, and to place the premises in a good sanitary condition, although it was obvious that this notice could not be complied with. This difficulty has now been overcome by the passing of the Housing of the Working Classes Act, 1903, which amends the procedure for closing orders, and enables the Local Authority to apply for a closing order although such notice has not been served.

From the Table of House Inspection contained in this report it will be seen that a large number of sanitary defects have been discovered by the Inspectors during the year. These were remedied for the most part either at the written request of the Inspector of Nuisances or upon the service of a preliminary notice. In some few cases it was necessary to proceed for the abatement of the nuisance in accordance with the provisions of the Public Health Act.

The erection of new houses, together with the construction of their drainage, is under the control of the Borough Engineer and Surveyor. All such dwellings are constructed subject to the new Building Bye-laws which came into force on the 21st March, 1900.

SEWERAGE AND DRAINAGE.—With the exception of one or two cottages situated in the outskirts, all houses within the Borough are provided with water closets, and are drained into the public sewers. A detailed description of the sewerage of the town has been given in previous reports.

The sewage is conveyed by gravitation through pipe drains and brick sewers to the outfalls, which discharge their contents into the River Taff and Bristol Channel. No nuisance has been detected on the foreshore as the sewage is rapidly carried out to sea by the strong tides which prevail in this Channel, and it has not therefore been found necessary to adopt any system of purification. The sewers on the eastern side of the Taff discharge by three outfalls into the Bristol Channel. Those on the western side into the estuary of the river.

Owing to the increase of the population, and in the number of houses, the capacity of the western sewers have been found insufficient, and an extension of this system is now being carried out by the construction of a new outfall sewer into the Bristol Channel, which will convey the entire sewage of this district to a point near Lavernock. By this means the inconvenience and danger, which has at times been caused by the backing up of the sewage, will be entirely obviated.

By the adoption and enforcement of the new Building Bye-laws, a more efficient control over the drainage of new houses is obtained, more especially with respect to the disconnection of the house drains from the public sewer by means of a suitably constructed ventilating disconnection trap, placed within the curtilage of the building and at a point as distant as possible from the building and as near as practicable to the point at which the house drain may be connected to the sewer.

REMOVAL AND DISPOSAL OF HOUSE REFUSE, SCAVENGING, &c.—This work is undertaken by the Sanitary Authority, and is under the control of Mr. J. Woosey, the Superintendent of this Department, from whom I have obtained the following particulars connected with the routine of the work.

The main thoroughfares and all side streets are swept every day between the hours of 7 a.m. and 5 p.m.

Shop refuse is cleared from 7.30 a.m. to 8 a.m. every morning

All main thoroughfares cleared by 11 a.m.

Household refuse is cleared three nights weekly, commencing at 11 p.m. to 6 a.m. on Monday, Wednesday, and Friday nights. All householders are requested to place refuse in a suitable receptacle in the channel in front of the house they occupy. Thirty-five horses and waggons are required three nights weekly to attend to this work.

One hundred and twenty waggon loads is the average each night from 11 p.m. to 6 a.m

Back lanes are cleared three days weekly, from 1 p.m. to 4 p.m. Waggons go round with bells, when occupier places the ash receptacle inside the yard or garden door ready for men to remove it.

I am of opinion that some more efficient method should be adopted for cleansing those streets within the Borough which are paved with wood. At present too much reliance seems to be placed upon the cleansing effect of rain, with the result that these streets are, during wet weather, unnecessarily muddy, and during dry weather the dust arising from them causes a considerable amount of inconvenience and nuisance.

Many of the cabstands in the town receive a quite insufficient supply of water, and their condition at times gives rise to justifiable complaints.

In all probability the dust from the roads and from the cabstands affects injuriously the public health. The scavenging carts should also be provided with suitable covers in order to prevent their contents from blowing about the streets.

WATER SUPPLY.—Cardiff is provided with an abundant and pure supply of soft water obtained from the Taff Fawr Watershed of the Brecon Beacons. To Mr. C. H. Priestley, M.I.C.E., Waterworks Engineer, I am indebted for the following information. The gathering ground is situated to the north of the South Wales Coalfield, on the old red sandstone formation, about 35 miles from Cardiff. The watershed consists of 10,400 acres of mountain pasture land, and the water is conveyed by gravitation from the storage reservoirs down the Taff Valley to the reservoirs at Lisvane and Llanishen; balancing reservoirs being placed at suitable situations along the line of the main conduit.

The capacity of the storage reservoirs is as follows:-

Beacons Storage Reservoir Taff Fawr, 345,000,000 gallons.

Cantreff ,, ,, ,, 322,000,000 ,,

Llanishen ,, ,, ,, 317,000,000 ,,

Lisvane ,, ,, 80,000,000 ,,

Besides the storage reservoirs the works comprise several smaller service reservoirs and filter beds. The average rainfall at the Beacons Reservoir for the 20 years 1885-1904 was 7611 inches.

The average consumption of water per head per day within the limits of the Borough during the year 1904 was 25 gallons.

Bacteriological examinations and chemical analyses of the Cardiff Water Supply are made at the Public Health Laboratory, and submitted to the Waterworks Committee at their monthly meetings. The results of these examinations, which are given below, show that the water is of excellent quality. On one or two occasions during the year the water in the Beacons Reservoir showed signs, from the bacteriological and chemical examinations, of slight animal and vegetable pollution. On visiting this reservoir with Mr. Priestley and Dr. Schölberg, our Bacteriologist, it was found that the most obvious source of pollution was the Storey Arms Inn, situated within a short distance of the reservoir, the sanitary arrangements of which left much to be desired. I therefore called the attention of the Committee to the possible danger of this pollution, and advised that steps should be taken to prevent its continuance. At the meeting, on 4th March, at which my report was received, the Committee passed the following resolution :- Resolved "That the Town Clerk be desired to communicate with the owner of the Storey Arms, with a view to purchasing the same." In my opinion it is very desirable that steps should be taken to prevent the possibility of any further pollution from this source, and it is difficult to see how this can be accomplished unless the Water Works Authority obtain possession or control of the house in question.

Bacteriological Examination of Samples of Water from the Cardiff Public Supply.

Date received.	Description of Samples.			Organisms e.e.	Remarks.
			At 37° C.	At 20° C.	
1904 Aug. 18th	Health Filters		3	2	Typical B. Coli. absent from 40 c.c.
,, ,,	Rhubina Filters		524	1,192	Typical B. Coli. absent from 40 c.c. Atypical B. Coli present in 10 c.c.
	Llanishen Reservoir	**	107	76	Typical B. Coli. present in 40 c.c. Atypical B. Coli. in 10 c.c.
,, ,,	Lisvane Reservoir		24	120	Typical B. Coli. absent from 40 c.c. Atypical present in 10 c.c. and 40 c.
8.30 p.m. Aug. 19th	Cantreff Reservoir	***	220	352	Atypical B. Coli. present in 2 c.c., 1 c.c., and 40 c.c. Typical absent from 40 c.c.
Aug. 18th 8.30 p.m. Aug. 19th	Beacons Reservoir		96	308	Atypical B. Coli. present in 10 c. and 40 c.c.; absent from 2 c.c. Typical B. Coli. absent from 40 c.c.

REPORT OF ANALYSES OF SAMPLES OF WATER RECEIVED FROM CARDIFF CORPORATION.

ALL RESULTS ARE STATED IN PARTS PER 100,000.

Deleases	Metals.	Nil	do.	do.	do.	do.	do.
Oxygen	4 hours, 80° F.	128	.146	-103	132	.073	.041
	Nitrates.	Nil	do.	do.	do.	do.	do.
Ammonia.	Albumi- noid.	-0116	-0120	-0114	-0136	8200-	-0058
Аши	Free.	-0030	-0029	-0024	-0034	-0012	0100
	Childrine.	άο	10.	ó	óo	ó	ó
Hardness	Permanent	9.10	3.00	3.10	3.820	90.00	1
Hard	Total,	0 0 0 0 0 0 0 0 0 0	3.50	9.00	4.10	4.10	4.00
Describion	INCHOREGION.	Faintly Alkaline	do,	do.	do.	do.	do.
Appearance	(2 feet layer).	Yellowish green. Rather turbid.	do,	Yellowish green. Fairly clear.	Faintly yellowish green. Fairly clear	Faintly yellowish green. Clear.	do.
Date	Collected.	Beacon's Reservoir Sept. 13th, 1904.	do.	do.	do.	do.	Sept. 10th
		i.	:		1	•	1
Semula	admen	Beacon's Reservoi	Cantreff Reservoir	Lisvane Reservoir	Rhubina Filter	Heath Filter	Candy Filter

MEAT INSPECTION.

The inspection of meat and other articles of food has been carried on as usual during the year, with no changes in or addition to the staff of inspectors, As all the slaughtering within the limits of the Borough is done in the Public Abattoirs belonging to the Corporation, it is comparatively easy to exercise an efficient inspection of meat and to detect conditions which render it unfit for food before it is exposed for sale.

Under these circumstances when unsound meat is discovered and is voluntarily surrendered by the owner no proceedings are taken under sections 116 and 117 Public Health Act, 1875, and no order for destruction is in such cases made by the magistrates, but the meat is in every instance examined by the Medical Officer of Health, and destroyed under the supervision of the Inspector of the Sanitary Authority.

Mr. C. Mcir, M.R.C.V.S., Veterinary Surgeon to the Corporation, is the Chief Inspector of Meat, and by arrangement between the Health Committee and the Property and Markets Committee, Mr. N. Rees, the Superintendent of the Roath Abattoirs, and four of his Assistants are appointed to assist in the inspection of meat at the Public Slaughter Houses. A Special Inspector, Mr. McGregor, who was formerly a butcher, acts as Inspector of Foods in Shops.

In each case of suspected Tuberculosis or other disease, in any carcass, specimens of the morbid deposit are forwarded to the Public Health Laboratory for examination by Dr. Schölberg.

The following table gives the amount of meat in pounds found by the Medical Officer of Health to be unfit for food and destroyed either with the consent or by an order of a magistrate, in each year during the period 1895—1904.

Year.				Ment.	
1895	 	 	 	4,523	lbs
1896	 	 	 	3,896	32
1897	 	 	 	10,824	
1898	 	 	 	9,929	17
1899	 	 	 	14,205	,,
1900	 	 	 	21,217	"
1901	 	 	 	33,696	. 22
1902	 	 	 	43,675	29
1903	 	 	 	41,710	33
1904	 	 	 	41,606	**

During the year 1904 the number of animals slaughtered in the Public Slaughter Houses in the Borough was as follows:—

		To	tal		74,550	11,154
Pigs	 				15,565	2,628
Calves	 				19,849	2,474
Sheep	 				20,238	3,108
Beasts	 				18,898	2,944
				Roath	Abattoir. Ca	anton Abattoir

UNSOUND MEAT SEIZED OR SURRENDERED.

Place of Seizur	re,	No. of Animals,	Number Condemned by Magistrate.	Number Destroyed by arrangement with Owner.	Total Weight in lbs.
Roath Slaughter-house		 80	1	79	26,173
Canton "		 . 8	-	8	3,420
TOTAL		 88	1	87	29,593

The nature of the diseases detected in each case was as follows :-

Tuberculosis	 	44	beasts.	Pneumonia	 	 1	beast.
- >+	 	20	pigs.	Dropsy	 	 1	sheep.
,,	 	1	sheep.	Pyœmia	 	 5	pigs.
Injuries	 	12	sheep.	Rot	 	 3	sheep.
Decomposed	 	1	ealf.				

OTHER ARTICLES OF FOOD SEIZED OR SURRENDERED.

Place of Seizure		Descripti S	on of eized.				Condemned by Magistrate	by arrangement with owner.	Total Weight in lbs.
Ice House		5 Quarters of Beer						1	865
		2 Baskets of Meat						1	270
		4 Rabbits						1	8
		12 Fowls						1	36
		2 Turkeys						1	20
		8 Ox Tails						1	10
		87 Pieces of Beef						1	1,796
		4 Pieces of Pork						1	40
		4 Pieces of Muttor	1					1	50
		27 Hares					4	1	80
		1 Piece of Beef						1	91
		4 Quarters of Bee!						1	190
		1 Shin Bone, Beef						1	12
		13 Barrels of Sausa						1	1,456
		14 Calves' Heads)		
		5 Shoulders of Ves	al		100		} :	1	110
		5 Legs of Mutton					1		
		47 Geese						1	564
Shop		Tripe						1	212
		Pigs' Feet						1	60
		Tongues						1	10
		8 Livers						1	38
		9 Shoulders of Bac					1		112
		2 Boxes of Fruit						1	72
		67 Pieces of Beef						1	274
		Liver						1	13
		4 Pieces of Beef						1	136
		Fruit						1	18
		1 Liver					1		15
		5 Barrels of Grape						1	250
		6 Pieces of Beef						1	60
Stores		29 Boxes of Fish						1	456
		4 Casks of Fish						1	336
		63 Boxes of Fish						1	1,042
		Fruit						1	900
		7 Boxes of Fish						1	784
Railway Station		22 Rabbits			(5.0)			1	66
-		7 Casks of Fish						1	1,260
		1 Bag of Cockles						1	112
farket		1 Cow's Lung						1	14
	1000	6 Pieces of Beef						1	100
		1 Fowl						1	5
		2 Pieces of Beef						1	30
Public Street		Dates					1		40
		-			1.00	100			
			-	otal			3	39	12,013

INSPECTION OF FACTORIES AND WORKSHOPS.—The Factory and Workshop Act of 1901 makes considerable alterations in and additions to the duties hitherto falling upon Medical Officers of Health. Under Section 132 the Medical Officer of Health is required in his Annual Report, to deal specifically with the administration of the Act (so far as the matters under the charge of the Sanitary Authority are concerned), and to send a copy of this Report to the Secretary of State.

The work carried out during the year 1904 is shown in the subjoined tables.

Sec. 101 of the Act imposes important duties on Sanitary Authorities in regard to underground bakehouses. The Section provides that no underground bakehouse shall be used as such unless it was so used at the time of the passing of the Act, i.e., August 17th, 1901, and further, that after the 1st January, 1904, no underground bakehouse (whenever established), may be used unless the Sanitary Authority is satisfied that it is suitable for the purpose in regard to construction, light, ventilation, and in all other respects, and have given it a certificate of suitability. A definition of the term "underground bakehouse" is given for the first time in this Act:—"A bakehouse is to be deemed an underground bakehouse if any room used for baking or for any process incidental thereto, is so situate that the surface of the floor is more than three feet below the surface of the footway of the adjoining street, or of the ground adjoining or nearest to the room." The question of the conditions under which these certificates should be granted is one of some difficulty, as no detailed instructions are given in the Act.

The matter is left entirely to the discretion of the Sanitary Authority, subject to the general principle that all underground bakehouses must be suitable as regards construction, ventilation, light, and in all other respects.

This section of the Act was apparently framed with the intention of encouraging the total abolition of underground bakehouses, and there can be no doubt that it would have this effect if Sanitary Authorities throughout the country were to adopt a high standard of suitability On the other hand, as these certificates are not subject to periodical renewals the practical working of this part of the Act may, unless extreme care is taken, result in the prolonged use of unsuitable premises.

In Cardiff there were only 7 underground bakehouses at the time of the passing of the Act, four of these have since been abolished, as entirely unsuitable for the purpose.

Three certificates have been granted to the occupiers of underground premises after the completion of extensive structural alterations as required by the Sanitary Authority.

SHOP HOURS ACT, 1904.—This Act, which came into operation during the year, enables Local Authorities to make "Closing Orders," fixing the hours of closing on the several days of the week, either in the entire area of the district of the Local Authority or in any specified part thereof. The closing order may apply to all shops or to shops of any specified class

The Act requires that the occupiers of shops desirous of promoting early closing should apply to the Local Authority, who may then take further steps in accordance with the provisions of the Act.

Several such applications have already been received, and the methods of administering the Act are now under the consideration of the Authority.

The following information is set forth on the form supplied by the Secretary of State, a copy of which was forwarded in January of the present year:—

1. -- INSPECTION OF FACTORIES, WORKSHOPS, &c.

								BER OF
		PREMISES.					Inspections.	Written Notic
Factories							133	22
Workshops	***						1,603	223
Homeworkers' premis		F					179	14
		Total					1,915	259
		2	-DEFE	CTS FO	UND.			
- 19							NUMBER (OF DEFECTS.
		PARTICULAR	is.					
							Found.	Remedied.
Want of cleanliness			***	***			99	99
Want of ventilation							14	14
Overcrowding							1	1
Other nuisances	***		***	***			106	106
	1	Insufficient		***			7	7
Sanitary accommodat	tions {	Unsuitable					29	29
		Not separat	te for se	xes			3	3
		Total					259	259
4-4		3	-ОТНЕ	R MATI	TERS.			
77		CLASS.					- NU	MBER.
Failure to affix Abstr	ract of	the Factory	and Wo	rkshop Ac	t			23
Action taken under	Notifi	ed by H.M.	Inspecto	or				32
Factory Act (S. 5)	Repor	rts (of action t	taken) se	ent to H.M	I. Inspect	ors		32
Underground Bakeho	ouses in	n use during	1903		***			3
Certificates granted i				***	***			2
In use at the end of	n 1904				***			1 3
in use at the end of .	1904		***		***	***		0
							NUM	BER OF
Homework :							Yinto	Outworkers
aroliic work .—						15000	Lists.	Outworkers
Lists received							91	210
A 222	tmoul.	na manalus I C		an Anth	ition		100000	1
Addresses of our	worke	rs received II	om otne	er Author	reres			•
9.4							Wearing	Other
							Apparel.	Other.
Cases of infectio							12	-
					***	***		
The state of the s	-		-					70
Dakehouses				***				
Other		***		***		***	1,0	00
Other								
		mber of Wo		on Regist	er		1,2	67
Addresses of our	tworker ous dise ong hon degister	ease notified in ework in in	in home fected p of 1904:	er Author	ities		12 12	1 Other

INSPECTION OF FACTORIES AND WORKSHOPS,

Under the Factory and Workshop Act, 1901, and the Shop Hours Acts, 1892-95, and the Seats for Shop Assistants Act, 1899.

During the year a large number of workshops have been inspected. The results these inspections are given in the annexed tables:—

Nature o	Workshop	ps Inspecte	d.	Numb	er on Regist	er. Numb	er of Inspe	etions.
Bakers					188		733	
Sugar Boilers					5		7	
Tailors					227		513	
Dressmakers					258		142	
Milliners					58		40	
Corset Makers					1		1	
Shirt and Hose Ma	nufacture	Ts			2		1	
Bootmakers					92		44	
Saddlers					13		26	-
Oilskin Manufactur					4		6	
Umbrella Makers					3			
Laundries					23	**	73	
Carpenters	•			**	27		25	
Cabinet Makers		**			22		34	
	**	**						
Upholsterers					22		17	
Picture Frame Mal	ters	**		**	10		1	
Coopers		**			2			
Pattern Makers					3			
Bottlers					23		17	
Packers	**			**	25		30	
Tinsmiths		**			5		4	
Blacksmiths					19		28	
Plumbers					18		1	
Engravers					2			
Printers	**	4.4			21		49	
Bookbinders		**			2		2	
Paper Bag Makers					9		4	
Box Makers					4			
Watchmakers					8		4	
Dentists					1			
Blue Factory					1			
Tent and Sail Mak					5			
Basket Makers	100				2		4	
Blind Makers					5			
Mat Makers			**		1		1	
Truss Makers					i			
Bed Makers	**	**		**	9		1	
Mattress Makers					2		1	
Tobacco Pipe Make		**			1			
Musical Instrument							1	
		**	**		6		3	
Sewing Machine Ma		**			2			
Perambulator Make					1	**	::	
Cycle Repairers			**		12		14	
Electro Platers	**	**			2		5	
Electricians					3		1	
Cigar Manufacturer			**		1		1	
Cigarette Manufact	urers				5		1	
Firewood Cutters					2		2	
Cork Cutters				**	1		5	

INSPECTION OF FACTORIES AND WORKSHOPS .- Continued.

Nature of Workshop	p Inspecto	d.		Num	ber on Register.	Number o	f Inspections.
Coach Builders					14		8
Engineers					30		16
Brass Workers		,.			4		
Wire Workers					1	**	
File Works					1		
Scale Makers					3		16
Oil and Colour Wor	rks				2		
Rope Manufacturers					2		
Hairdressers					4		
Photographers					5		
India Rubber Work	CS CS				2		
Aerated Water Mar	nufacture	rs			3		
Stone Masons					4		
Cement Works					1		3
Asphalte Works					3		2
Rag Sorters					4		13
Plaster Moulders					5		7
Biscuit Works		-			2		
Flour Mills					4		1
Furrier					1		1
Tanner					1		
Jam Factory					1		
Boat Builder					5		3
Saw Mills					10		3
Brick and Tile Wor	rks				1		
Patent Fuel Works					1		
Chemical Works					1		
Copper Works					1		
Milk Sterilizers					1		1
					1		
			Total		1,267	1	.915

Notices of new workshops from Inspector of Factories under Factory and Workshop Act, 1901, Sec. 127, Sub. 3=87.

Notices from Inspector of Factories re sanitary defects in workshops, under Factory and Workshop Act, 1901, Sec. 5, Sub. 1=32.

Notices sent by Sanitary Authority to Inspector of Factories under Factory and Workshop Act, 1901, Sec. 133 = 23.

	Paper Bagmaker:	11117111111111	-
	Plaster Moulder.	1111111111111	64
	Cork Cutters.	111111111711111	-
	Rag Sorters.	- -	64
	Electricians.	1117111111111	-
	Boat Builders.	11171111111111	-
	Packers.	01	9
	Jewellers.	11117111111111	-
	Cycle Repairers.	17	-
	Scale Repairers.	7	-
	Oilskin Manufacturers.	11117111111111	-
ni.	Bootmakers.	1117117111111	63
WORKSHOPS	Bottlers	- : : - : : : : : - : : : : : :	හෙ
3KS1	Laundries.	101-1 1000 1-01 1 1-1	16
WOI	Engineers.	-11111111111111	-
IN	Smiths.	01	1-
ES	Printers.	01000100 00 01	15
ANC	Milliners.	11111711111111	-
NUISANCES	Cabinet Makers.	- 1-01-11-1-00	6
~	Electro Platers.	17	-
	Carpenters.		-
	Dressmakers.	1111-1-111111	G)
- 1	.stoliaT	-8804019 10 1-119	75
	Bakers.	: -: -4: : : 2 - 8 2:	111111
		ided ded ded ded ded ded ded ded ded ded	1
		prov epair provic de paire des 	Total
		ation] and re atus p and r tillatec cc., rep msed e stack crecow com St t	1
		amod pped pped pped pped ing is ven ofs, & is clea inons ts ere s ove red fr ined	10 3 3
		W.c. accommodation provided Drains trapped and repaired Flushing apparatus provided W.c.'s cleansed and repaired Limewashing Workrooms ventilated Paving, roofs, &c., repaired Defective smoke stacks Accumulations Accumulations Manure pits erected Disconnected from Stable Floors drained Floors drained Animals so kept	
		W.c. Drain Flush Flush W.c. Lime Lime Work Work Work Work Work Work Work Work	

SHOP HOURS ACT.

	1	Nature of She	ops I	nspected.			Number of Inspections.	Employing Young Persons.	Employing Females	Seats Provided
Drapers						 	85	78	82	82
Grocers						 	87	79	2	2
Butchers						 	68	53		
Hairdressers a	nd	Tobacconis	sts			 	81	62	56	56
Newsagents ar	d	Stationers				 	49	35	44	44
Fruiterers						 	40	30	20	20
Public Houses				.3		 	37	6	37	37
Boot Dealers						 	47	38	33	33
Confectioners						 	52	27	45	45
Fancy Dealers						 	37	27	35	25
Outfitters						 	19	17		
Ironmongers						 	23	22	1	1
Picture Dealers	8					 	3	1		
China Dealers						 	4	3	1	1
Seedsmen						 	2	1		
Cycle Dealers						 	2	2		
Furniture Deal	ers					 	3	1	1	1
Chemists						 	5	3		
Jewellers						 	4	4		
				-	Total	 	648	489	357	357

CARDIFF AND COUNTY PUBLIC HEALTH LABORATORY.

The following tables show the work which has been carried on in the Laboratory during each quarter of the year 1904.

The Laboratory forms part of the buildings of the University College, Cardiff, and is used for teaching purposes in connection with the Public Health and Bacteriological Departments of the College. It is maintained jointly by the Glamorgan County Council and by the Cardiff Corporation, and the Medical Officers of Health of these Authorities act as Directors of the Laboratory, and have the use of it for any bacteriological or chemical investigation connected with their administrative work. The Laboratory is under the immediate supervision of the Bacteriologist, H. A. Schölberg, M.B. (Lond.), D.P.H., and J. H. Sugden, M.Sc. (Vict.), F.I.C., acts as Assistant Bacteriologist and Chemist.

During the first quarter of 1904 the following were received and examined:-

308 Specimens; 134 Waters; 66 Effluents and Sewages.

SPECIMENS.

BACTERIOLOGICAL I	EXAMINATIONS :-
-------------------	-----------------

Diphtheria				 	 	77
Sputum for 7	Cubercle	Bacilli		 ***	 	100
Enteric Fever	-Blood	Serum	Reactions	 	 	29
Pus				 	 	3
Pneumococcu	S			 	 	3
Gonococcus				 	 	2
Glanders			1.1	 	 	1
Anthrax				 	 	1
Plague					 	1
Diseased Mea	t			 	 	15
Urine for Tu	bercle B	acilli		 	 	1
Bacteriologica	l Exami	nation o	of Milk	 	 	5
,,	- ,		Air	 	 	2

249

PATHOLOGICAL AND CHEM	ICAL EX	AMINATIO?	VS :					
Growths							5	
Urine—General Exan	nination						19	
Sugar Estima	tion						7	
Albumen and	Urea						3	
Hydatid Fluid							1	
Blood Examinations							5	
Polarite							1	
Insulating Compound							1	
Samples of Air in Sc		hemical A	nalyses				26	
							-	68
					Total			308
SAMPLES O	F WAT	TER, SEV	WAGES,	AND	EFFLU	ENTS		
Waters :-								
Bacteriological Analy	ses						65	
							69	
SEWAGE AND SEWAGE EF			100	- 1			- 27	
Bacteriological Analy				24			22	
							29	
Trade Effluents :—								
Chemical Analyses							15	
Chemical Analyses	44	• •	**		**		10	200
SECOND QUARTER, 1904	The	following .	more rece	ar bowie	d avami	nod		200
315 Specimen		7 Waters.			and Se			
313 Specimen	18. 12	SPECI		Smuents	and se	wages.		
Diamentor coront Printer	· · mrovo ·		MENO.					
BACTERIOLOGICAL EXAMIN							71	
Diphtheria	D						71	
Sputum for Tubercle		n					89	
Enteric Fever—Blood	Serum	Reactions			**		34	
Pus Examinations			**			7.1	6	
Gonococcus ,,	**						6	
Pneumococcus			4.1				2	
Diseased Meat							3	
Soil (Bacteriological)	Samples						10	
Preserved Cockles							1	
Anthrax (Human)							1.	
,, (Bovine)							2	
Glanders (Equine)							1	
Fish							1	
Milk (Bacteriological)						19.6	2	
" (Tubercle)							2	
Rats for Plague							7	
							_	238
PATHOLOGICAL AND CHEM	ICAL EX	AMINATION	rs :					
Growths							9	
Urines for General E	xaminat						19	
" " Sugar Est							10	
" " Tubercle							8	
This Asid				100			1	
Commide							2	
Stomach Contents					1000		3	
Blood Examinations							11	
Soil Samples (Chemic				-		- 3	10	
Preserved Cockles (Cl							1	
			838				1	
Milk (Chemical)	••		**		**	**	1	
Cream (Chemical)		**	7.7			**	1	
Faeces (Chemical)			**				1	-
							-	77

SAMPLES OF WATER, SEWAGE, AND EFFLUENTS. WATERS :-Bacteriological Analyses Chemical Analyses .. 52 . . SEWAGE AND SEWAGE EFFLUENTS :-Bacteriological Analyses ... 7 Chemical Analyses .. 17 TRADE EFFLUENTS :-Chemical Analyses .. - 160 THIRD QUARTER, 1904.-The following were received and examined:-Waters 144. Effluents and Sewages 78. Specimens 272. SPECIMENS. BACTERIOLOGICAL EXAMINATIONS :-77 75 Enteric Fever-Blood Serum Reactions . . 45 Pus Examinations 3 Gonococcus 2 9 1 Urine for Typhoid Bacilli , , , Tubercle Bacilli 1 1 Silk Thread for Bacteria (Cardiff Infirmary) --- 215 PATHOLOGICAL AND CHEMICAL EXAMINATIONS :--Growths 9 Urines for General Examination 8 8 3 Blood Examinations 20 Stomach Contents .. 1 1 Spermatozoa Cream (Chemical) Car Cleaning Oil (Electrical Department) Water for Plumbo-solvent Action . . Water for Lime 57 272 SAMPLES OF WATER, SEWAGE, AND EFFLUENTS. WATERS :-Bacteriological Examinations . . 94 Chemical Analyses .. 50 - 144 SEWAGE AND SEWAGE EFFLUENTS :-Bacteriological Examinations ... 26 Chemical Analyses 26 ... TRADE EFFLUENTS :-Chemical Analyses 26 .. 78 222

FOURTH	QUARTER, 1	1904.—	The	follov	ving	were	received	and	exami	ned:-
	Specimens	s 456.	N	aters	113.	E	ffluents a	and S	ewages	62.

		SPECIA	IENS.					
BACTERIOLOGICAL EXAMIN	ATIONS :-	_						
Diphtheria							189	
Sputum for Tubercle	Bacilli						76	
Enteric Fever—Blood		Reactions					89	
Pus Examinations							5	
Gonococcus							5	
Pneumococcus						22	1	
Ringworm							2	
Diseased Meat							6	
Milk							2	
Disinfectant Action							1	
							_	376
PATHOLOGICAL AND CHEM	ICAL EXA	MINATION	es :					
Growths							9	
Urines for General E	xaminati		10.00				16	
" " Sugar Est	imation						5	
" " Urea Esti							. 2	
., ., Albumen							2	
and the second s							1	
Strychnine Examinati							2	
Blood Examinations							12	
Waters for Plumbo-se							22	
Waters for Chlorinate							3	
Oils				**	**		4	
Air Examinations			**	**	**		2	
2411 J.Adillimations	**	11	20.00	- 1	**	7.7		80
							-	00
								453
SAMPLES (OF WAT	PED CE	WACH	AND T	TETEL CITES	me		403
WATERS :-	OF WAI	LEIV, SE	water,	and E	FFLOW	110.		
Bacteriological Exam	inations						113	
Chemical Examination	ns						55	
SEWAGE AND SEWAGE EF	FLUENTS						-	168
Bacteriological Exam	inations						13	
Chemical Examinatio							26	
TRADE EFFLUENTS :-								
Chemical Examinatio	ns						23	
							_	62
								_
								230

During the year 1904 the Laboratory has been utilised for the usual Public Health purposes. Monthly examinations of the Public Water Supply have been carried out, as well as numerous analyses of samples of water from vessels calling at the Port of Cardiff. Many of the latter have been condemned as unfit for drinking purposes, while for the former, it has been shown that, though the filtered water may be considered satisfactory, a potential danger exists in the liability to pollution of the water at the Beacons Reservoir from the proximity of the Storey Arms Inn. It is to be hoped that means will be taken to remedy deficiencies which, wher once dealt with, should make the Cardiff Water Supply one of the best in the kingdom.

During the year a number of samples were examined to test the efficiency of the Candy Polarite Filter. The conclusion to be drawn from the experiments carried out is, that this method of filtration is a useful auxiliary, but cannot, I think, replace sand filtration.

Another subject which occupied the attention of the Laboratory is that dealing with the purification of "Made Soils." The result of this investigation is inconclusive. Variations of the degree of purification occur in soils of different ages, which do not correspond to an improvement that the corresponding lapse of time would suggest. This variability is probably due to the different degrees of pollution present in refuse dealt with from week to week. The highest degree of chemical purity has been recorded in a sample nine years old.

MIDWIVES ACT, 1902.

This Act came into operation on the 1st April, 1903, when the Council of the County Borough of Cardiff was constituted the Local Supervising Authority within the Borough. Section 8 of the Act provides that "The Local Supervising Authority may delegate, with or without any restrictions or conditions as they may think fit, any powers or duties conferred or imposed upon them by or in pursuance of this Act, to a Committee appointed by them, and consisting either wholly or partly of members of the Council, and the provisons of Sub-sections 1 and 2 of Section 82 of the Local Government Act, 1888, shall apply to every Committee appointed under this section and to every Council appointing the same, and women shall be eligible to cerve on any such Committees."

Under the powers of this Section the Local Supervising Authority delegated to the Health and Port Sanitary Committee all the powers and duties conferred or imposed upon them, and appointed the Medical Officer of Health Executive Officer in accordance with the suggestion contained in the Memorandum of the Central Midwives Board.

The first duty which devolved upon the Authority was to give notice of the effect of the Act, so far as practicable, to persons at present using the title of midwife. This was done by advertisment in the local newspapers, by large printed notices and by small handbills left at the residence of the midwife.

The Midwives Act confers upon the Local Supervising Authority extensive and responsible duties in connection with the supervision of all midwives certified under the Act, and practising within the area of their jurisdiction. These duties are as follows:—

- (1) To exercise general supervision over all midwives practising within their area in accordance with the rules laid down under the Act.
- (2) To investigate charges of mal-practice, negligence, or misconduct on the part of any midwife practising within their area, and, should a prima facie case be established, to report the same to the Central Midwives Board.
- (3) To suspend any midwife from practice, in accordance with the rules under the Act, if such suspension appears necessary in order to prevent the spread of infection.
- (4) To report at once to the Central Midwives Board the name of any midwife practising in the area convicted of an offence.
- (5) During the month of January of each year to supply the Secretary of the Central Midwives Board with the names and addresses of all midwives who during the preceding year have notified their intention to practise within their area, and to keep a current copy of the roll of midwives, accessible at all reasonable times for public inspection.
- 6) To report at once to the Central Midwives Board the death of any midwife or any change in the name or address of any midwife in their area, so that the necessary alteration may be made in the roll.

In addition to the above powers and duties of the Local Supervising Authority, they are authorised to prosecute any offences under the Act punishable on summary conviction.

From the current copy of the Roll of midwives kept by the Local Supervising Authority, it appears that within their area, i.e., the Borough of Cardiff, there are 96 midwives certified under the Act. Of these, 83 were certified on the ground of having been in bona-fide practice as a midwife for at least one year prior to the 31st July, 1902; 12 on the ground of holding the Certificate in Midwifery of the Obstetrical Society of London, and one of holding the Certificate of the Rotunda Hospital, Dublin.

On giving notice to the Supervising Authority of her intention to practise within the area, each midwife is supplied with a copy of the Rules of the Central Midwives Board.

Visits are paid from time to time by the Woman Inspector appointed for this purpose, in order to explain, when necessary, the rules, and to enforce compliance therewith.

The object of the Act is to secure the better training and supervision of midwives by the establishment of a system of certification and enrolment of women qualified to act in that capacity. The Act provides that from and after the 1st April, 1905, no woman may call herself a midwife unless she is certified under the Act, and that after the 1st April, 1910, no woman shall habitually, and for gain, attend women in child-birth, otherwise than under the direction of a qualified medical practitioner, unless she is so certified. The Act also provides for the certification of existing midwives in the manner already described, provided they apply for certification not later than the 1st April, 1935. After that date, certification can only be obtained after a course of study, and by passing an examination in accordance with the Rules of the Central Midwives Board. The course of training before admission to the Board's Examination requires attendance at not fewer than twenty labours, and the nursing of twenty lying-in women, and the attendance of a sufficient course of instruction extending over a period of not less than three months. By the prompt and efficient action of the Authorities of the University College of South Wales and Monmouthshire, in Cardiff, a comprehensive course of training and instruction has been established, and Dr. E. Maclean, the Lecturer in Midwifery at the College, has been appointed to carry this out The Councils of the County of Glamorgan and the County Borough of Cardiff have contributed through their Education Committees to the expenses of this course of instruction, and have the privilege of nominating a certain number of women each term, for free studentships in midwifery. During the year 1904, 44 women from the Borough of Cardiff have attended the course.

The Committee of the Queen's Nursing Institute have recently established a Maternity Department, and are taking pupils for the practical training of midwives. Both the theoretical training at the College, and the practical course in connection with the Nursing Institute, have been recognised by the Central Midwives Board, as qualifying for admission to the Board's Examinations.

THE MEDICAL SUPERVISION AND SANITARY INSPECTION OF SCHOOLS.

The Education Act of 1902 has necessarily brought to the front the question of the sanitation of Public Elementary Schools, as by its operation these schools have been placed under the control of the Local Education Authority, which in this and many other districts is practically the same body as the Local Sanitary Authority. At the request of the Education Committee your Borough Engineer and Medical Officer of Health made an inspection of all the Non-provided Schools in the Borough (nineteen in number), and presented reports upon the sanitary condition of these schools to the Committee. It was subsequently resolved that the managers should be called upon to make such alterations as were necessary in order to place their schools in a more satisfactory state as regards sanitation and general construction.

In some cases these alterations have already been made, and in others the defects are being remedied and improvements are being carried out. The inspection of these schools made it abundantly clear that, with respect to the old schools, there has been a quite unnecessary disregard for the health of the teachers and scholars, in their construction, more particularly in connection with the arrangements for ventilation, warming, and drainage. It was evident also that some of the more inexperienced teachers did not sufficiently appreciate the use of the sanitary appliances already provided, and that the caretakers were for the most part still more in need of instruction in the use of even the most simple of these appliances.

The changes in administration brought about by the Education Act afford, therefore a favourable opportunity for organizing a systematic and effective method of supervising the sanitation of schools, andi of promoting the health of the scholars. Throughout the country, the necessity for some action in this direction has been felt, and attempts are being made by the new [Education Authorities to deal with this somewhat difficult and complicated problem. The methods adopted have been generally on the following lines:—

- The provision of instruction of school teachers in the laws of health, and, in school hygiene.
- (2) The better attention to the details of sanitation in the construction of new schools, especially with respect to the ventilation, warming and drainage of the school buildings.
- (3) The maintenance of the existing schools in a good sanitary condition.
- (4) The systematic medical inspection of schools, with a view to the promotion of the health and physical development of the scholars, and to the prevention of the spread of infectious and other diseases in schools, and to securing special attention to those scholars showing signs of mental and physical weakness or abnormality.

Firstly.—In this District provision has already been made for the instruction of school teachers in hygiene. The University College of South Wales and Monmouthshire has established a very complete course on this subject as a preparation for candidates for the certificate in hygiene given by the Board of Education; this being one of the optional subjects which may be taken by the candidates for the Board's qualifying certificate for school teachers.

Secondly.—It is, of course, essential that due attention should be given locally, to the details of sanitation in the construction of new schools. These matters are, to some extent, provided for in the Rules issued by the Board of Education in connection with the planning and fitting up of new schools.

In the preparatory note to these Rules it is stated that "They are intended to show Education Authorities what the Board deem essential in the construction and design of school buildings, but in other respects they are not meant to restrict liberty of treatment." From this it will be seen that the Local Education Authority will have a wide discretionary power with respect to the constructive details of school buildings.

Thirdly.—The duty of maintaining the existing schools in a good sanitary condition devolves, almost entirely, upon the Local Authority, and is a matter of the highest importance, involving as it does the health and physical welfare of enormous numbers of children, at a period of life when they are most susceptible to the influence of favourable or unfavourable surroundings.

The responsibility in this direction applies more particularly to the older schools in the District, in which the appliances are more or less imperfect, and in which the greatest care and attention is required on the part of the teachers and caretakers in order to keep the school and class rooms, and sanitary appliances in a wholesome condition. The want of due attention to these matters invariably leads to illness or discomfort of the scholars, and to unnecessary interference with school work. Some organized system of sanitary supervision of school buildings should, therefore, be adopted by the Education Authority.

Fourthly.—A routine medical inspection of all the schools in the District should be carried out under the direction of the Local Education Authority, having in view, principally, the following objects:—

- (a) To ascertain and to certify as to the cause of absence from school on account of illness of pupils or teachers.
- (b) To confer with the head teachers at the schools on the general state of health of the teachers and scholars, and particularly as to the condition of children considered to be physically or mentally weak, and to report to the Local Education Authority the result of such conference.

- (c) To take the necessary steps for excluding from school attendance children suffering from any communicable disease.
- (d) To examine all children known to have recently been in contact with a person, or persons, suffering from an infectious disease.
- (e) To examine and report upon, to the Local Education Authority, the sanitary condition of all schools under their control.

INSPECTION OF COMMON LODGING HOUSES.—These houses are regulated by the provisions of the Public Health Act, 1875. Section 77 requires all Common Lodging Houses to be registered, and Section 80 empowers the Sanitary Authority to make Bye-Laws.

- For fixing, and from time to time varying, the number of lodgers who may be received into a Common Lodging House, and for the separation of the sexes therein.
- (2) For promoting cleanliness and ventilation in such houses.
- (3) For the giving of notices and the taking precautions in the case of any infectious diseases; and
- (4) Generally for the well ordering of such houses.

In the year 1891 your Authority adopted Bye-Laws which correspond closely with the "Model Bye-Laws" of the Local Government Board.

COMMON LODGING HOUSES.

	100							200
Total number on register	Inspection	of Commo						Number. 25
D 14 1						***		108
Number of persons certified t		ata.						390
* ' '		ate						2,375
								112
Night inspections								777
W.c.'s cleansed and repaired						**		41
Drains trapped and repaired			**				**	39
Special ventilation provided t	0 100ms							68
Limewashed								61
Repaired								45
Accumulations removed						**		37
	SEAMEN	'S LOD	GING F	HOUSES.				
Total number of applications								655
persons licer								124
,, houses, the		which be						124
Maximum number of lodgers								1,292
Number of day inspections			erveu in	the abov				2,612
minha immediane								274
								46
" houses in which s	sanitary imp	rovement	s have t	een enec	tea	**	**	40
Nature of sanitary defects-								
W.c.'s supplied with	water							15
Defective water clos	ets							46
Defective drains								51
Defective paving in								53
Defective bedroom v								58
Houses with walls a								45
Houses limewashed	ara room out							368
Accumulations of re	fuse							54
Infectious disease di						**		4
Legal proceedings ta								8
angai proceedings to	iken	**						-

SALE OF FOOD AND DRUGS ACT.

The following table shows the number of samples of food and drugs submitted during the year 1904 to the Public Analyst, Mr. Thomas Hughes, F.I.C., F.C.S., Cardiff:

Samples obtained,		Number of Samples.	Number of Genuine Samples	Number of Samples Adulterated.	Fines,
Milk		413	401	12	£2, £5, £2, £3, £2, 5/-, 5/-, £5, £5. 3 cases fined Costs.
Beer		16	16	-	
Butter		36	36	-	
Corn Flour		10	10		
Irish Whisky	***	2	2	_	
Scotch Whisky		2 2 2	2		
Rum		2	2 2 2	_	
Gin		2	2	_	
Flour		12	12	_	
Coffee		7	7	-	
Demerara Sugar		8	8	-	
Brandy		2	2 2		
Rice		2 2 2	2		
Baking Powder		2	2	-	
Pepper		4	4	_	
Arrowroot		1	1	_	
Sago		1	1	_	
Tea		2	2	-	
Margarine		33	33		
Sweets		8	8	_	
Bread		5	5	-	
Ginger		5	5	_	
Golden Syrup			2	-	
Lard		2 2 8	2 2	-	
Cheese		8	8	-	
Marmalade		2 2	2	-	
Jam		2	2	-	
Vinegar	***	7	7	_	
Condensed Milk	-	1	1	_	
Skimmed Milk		1	1	-	
Total		600	588	12	£24 10 0 and Costs.

VITAL STATISTICS, POPULATION, &c.—The population of the Borough, according to the Census enumeration of April, 1901, amounted to 164,333 persons, being an increase of 27.5 per cent since the Census of 1891; the rate of increase being considerably less than that of the preceding inter-censal period, which slightly exceeded 55 per cent. The population of the Borough, estimated in accordance with the method adopted by the Registrar General, to the middle of the year 1904, was 176,313, and the birth and mortality rates contained in this Report have been calculated on the basis of this estimate. This method of estimating the population of towns at the middle of each year since the last preceding Census is based on the assumption that the same rate of annual increase has continued as during the decennial period ending at the time of that Census. The estimates of population obtained by this method are, of course, only approximately true and they generally exhibit considerable divergence from the actual truth in the years most remote from the Census. It is probable, however, that the annual estimates of populations in Cardiff, since 1901, will be much more accurate than those immediately preceding that year, as they are calculated on the more moderate rate of increase of 27.5 per cent. The extent of this error, and its effect on the calculated rate of mortality, are shown in table XII., giving corrected death rates for each year during the inter-censal period 1892-1900, based on the revised estimates made since the publication of the Census of 1901.

In order to check, to some extent, the accuracy of the official estimate of the population, a local enumeration, based on the number of inhabited houses, is made annually in June, under the superintendence of the Medical Officer of Health. This number is multiplied by 5.8, the average number of inmates per house, as given at the last Census. The results of this enumeration made in June 1904, are given in table I.

The following table gives the population of Cardiff, at various ages, estimated to the middle of 1904:—

TABLE VII.

Ages.	Persons.	Males,	Females.	
All ages	 176,313	87.554	88,759	
Under 5 years	 22,218	10,951	11,267	
5 and under 10 years	 20,316	10,165	10,151	
10 ., 15 .,	 18,253	9,101	9,152	
15 ,, 20 ,,	 17,408	8,418	8,990	
20 ,, 25 ,,	 17,449	8,200	9,249	
25 ,, 30 ,,	 16,135	7,950	8.185	
30 ., 35 .,	 14,066	7,110	6,956	
35 40 .,	 12,540	6,411	6,129	
10 ,, 45 ,,	 10,241	5,403	4,838	
15 ,, 50 .,	 7,903	4,148	3,755	
50 ,, 55 ,,	 6,383	3,273	3,110	
55 ., 60 .,	 4,652	2,357	2,295	
60 ,, 65 ,,	 3,546	1,735	1.811	
65 ,, 70 ,,	 2,388	1,084	1,304	
70 ,, 75 ,,	 1,536	706	830	
75 80	 810	352	458	
80 years and upwards	 469	190	279	

MARRIAGES.—The total number of marriages registered during the year 1904 was 1,563, corresponding to a rate of 17.7 persons married per 1,000 living.

The return of the number of marriages in the Borough of Cardiff during the years 1895-1904, together with the rate of persons married per 1,000 of the population, is given below:—

TABLE VIII.

Year.	Number of Marriages.	Rateper 1,000 persons living		
1895	1,271	17-7		
1896	1,721	23.4		
1897	1,687	22.4		
1898	1,525	19.8		
1899	1,719	21.8		
1900	1,706	21.1		
1901	1,641	19.8		
1902	1,677	19.8		
1903	1,668	19.3		
1904	i,563	17.7		

BIRTHS.—During the year 1904 the births registered in the Borough were 5,208, of these 2,647 were males and 2,561 were females. The number of births corresponded to an annual birth-rate of 29.5 per 1,000 persons living, as compared with 27.9, the birth-rate in England and Wales, and with 29.1 the rate in the 76 large towns, for the same period.

The average annual birth-rate, in Cardiff, during the ten years 1894-1903 was 340.

TABLE IX.

Shows the number of legitimate and illegitimate births, male and female, and the number of deaths amongst children under one year of age in each Ward, and in the Union Workhouse, during the year 1904:—

WARDS		100				Legitimate.		Illegitimate.		otal.	77.4.7	Deaths Under one
				М.	F.	М.	ν.	M.	F.	Total.	Year.	
Central	Ward				106	120	3	9	109	122	231	38
South	**				148	123	3	2	151	125	276	48
Cathays	21		4.0		331	299	6	5	337	304	641	71
Park	**				275	277	6	4	281	281	562	68
Adamsdown	22				219	201	4	3	223	204	427	61
Riverside	**				220	203	2	3	222	206	428	58
Canton	**				337	346	7	7	344	353	697	92
Routh	,,				207	224	8	6	215	230	445	55
Frangetown	,,				405	370	6	5	411	375	786	134
Splott	**				307	307	3	2	310	309	619	101
Union Work					8	14	36	38	44	52	96	25
	TOTAL				2,563	2,484	84	77	2,647	2,561	5,203	751

TABLE X.

Shows the birth-rate in Cardiff compared with that in some of the large towns during the 10 years ending 1904:—

							Annu	al Birt	th-rate	per	1,000	living		
,	LARGE '	Towns.			1895	1896	1897	1898	1899	1900	1901	1902	1903	1904
ondon					30.5	30.2	30.0	29.5	29.4	28.6	29.0	28.5	28.5	28:0
Vest Ham					34.3	32.6	32.2	30.6	29.7	28.6	35.2	34-1	33.7	32-1
roydon					25.3	25.1	25.0	25.4	25.1	24.9	26.4	26.1	26.3	26-1
Brighton		***			25.6	24.7	24.7	24.8	24.9	23.6	24.2	24.3	24.3	23.5
ortsmouth					27.9	27.6	26.9	26.7	26.2	25.7	27.9	27.1	27.9	28.2
lymouth					28.7	28.8	28.5	29-7	29.8	28.4	26.8	27.0	25.5	25.3
Bristol					28.9	27.6	27.8	28.6	29.2	27.8	27.0	27.5	27-4	26.0
wansea					33.4	30-5	29.4	28.9	27.7	26-7	30-1	31.1	32.0	30:5
Volverhampto					35.4	34.4	35.1	35.8	35.3	33-5	31.7	31.6	30.5	29.8
Birmingham					32.4	32.6	33.3	34.0	34.3	32-7	32.1	31.8	31.8	31.5
Jorwich		-611			31.8	30.8	30.5	29.9	29.1	28-4	28.4	27.9	27.9	27.6
eicester					30.8	30.8	30-6	29.6	29.4	28-2	29.0	29.1	27.4	26.6
lottingham					29.7	28.9	28-9	28.9	28.9	27.7	28.4	27.8	28.3	27.8
erby					29.1	28.0	27-1	27.4	28-1	26.9	27.8	28:0	27.0	27.2
Birkenhead					30.7	31.7	31.6	30.4	29.9	29.0	29.0	32.7	30.8	33-1
iverpool					36.9	34.9	35.3	35.2	35.6	36-0	32.1	22.5	33.4	33-5
Bolton					32.9	31.3	32.5	30.9	29.9	34.7	27.5	27.2	27.0	26.9
lanchester		444			33.7	33.0	33-2	32.7	32.6	32.3	29.1	32.8	32.1	31.3
alford					35.9	34.9	35.1	34.7	33.9	33-1	29-2	33.8	32.2	31.7
Oldham		***	***		27.5	27.2	26.1	25.3	24.8	24.1	24.6	26.1	25.6	24.9
Burnley	***				32.1	31.0	29.8	27.1	25.3	25.3	27.4	29.1	27.2	27-2
Blackburn	•••				30.6	27.7	27.7	27.1	27.0	25.1	26.5	25.6	25.1	23.5
reston	***				33.4	32.6	31.9	31.0	30.1	29.0	30.4	28.9	30.4	28.2
Inddersfield	***	***	10.	***	21.7	20.5	23-4	22.5	23.0	22.8	22.7	24.4	23.8	23.7
I-VE	***	***		***	23.4	24.3	22.5	22.9	23.1	23.1	22.5	21.3	21.1	20-1
10.1	***	***	***	***	26.1	25.5	24-6	24.0	23.4	23.1	23.1	23.0	23.3	22.0
	***	***	***	241	31.6	30.7	31.6	31.2	30.6	30.4	30.0	29.8	29.4	28.0
1.02.13	***			***	34.9	34:0	34-4	33.9	34.6	34.2	33.0	33.4	33.2	31.9
111			***	***						32-9	33.0	32-1	31.3	30.8
111		***	***	***	34.2	31.9	33.3	33.4	34:3		35.5	35.9	35.1	34.4
underland					35.1	34.2	34.6	35.4	35.7	35.8			35.8	
inteshead		***	***	***	34.6	35.8	35.8	35.5	36.6	36.3	36.8	36.7		34.4
wewcastle-on-	Lyne	***		***	31.2	31.1	31.3	31.7	31.4	30.4	32.1	32-6	31.1	30.5
Cardiff		1.6			37.1	38.1	35.1	35.8	33.4	35.5	31.4	31.5	30.2	29.2

DEATHS.—The deaths recorded during the year 1904 amounted to 2,695, as compared with 2,675, the average number of deaths for the 10 years 1894—1903. So far as it has been possible to ascertain, this number includes the deaths of persons resident in Cardiff, and who died elsewhere, but is exclusive of those brought into the district from outside and dying in Public Institutions within the Borough.

These deaths were equal to an annual death rate of 15.2 per 1,000 persons living, as compared with 17.1, the average annual death rate for the 10 years 1894—1903. The natural increase in the population, or the excess of births over deaths, during the year amounted to 2,504. The death rate in 1904 was, with the exception of that in 1903, the lowest on record since the vital statistics of the Borough were first published in 1847.

According to the Returns of the Registrar General, the death rate in the year 1904, for the whole of England and Wales, amounted to 16.2 per 1,000. The average death rate for the same year in the 76 large towns was 17.2, ranging from 8.43 in Hornsey, 11.95 in Walthamstow, 11.02 in Kings Norton, to 21.00 in Salford, 21.2 in Hanley, and 21.90 in Liverpool.

In the first quarter of the year the number of deaths registered in the Borough of Cardiff, at all ages, from all causes, was 774, corresponding to an annual death rate of 17.5 per 1,000 persons living, as compared with 18.7 the rate in the 76 large towns. Amongst these towns the death rate for the first quarter ranged from 8.8 per 1,000 in Hornsey, 11.2 in Walthamstow to 23.2 in Wigan, and 23.8 in Warrington, and 26.6 in Merthyr Tydfil.

Eighty-five deaths in Cardiff were ascribed to the principal infectious diseases, being equal to an annual death-rate of 1.9 per 1,000 for the first quarter of the year. The average death-rate from these diseases in the 76 large towns was 1.6 per 1,000, ranging from 0.08 in Burton-on-Trent, to 4.41 in Warrington. The deaths from infectious diseases during the first quarter included 29 from measles, 22 from whooping cough, 16 from diphtheria, 9 from scarlet fever, and 9 from diarrhea.

The infant mortality in the first quarter, as measured by the proportion of deaths under one year of age to registered births, was equal to 156 per 1,000, as compared with 145, the average in the 76 large towns.

In the second quarter of the year the number of deaths registered was 585, corresponding to an annual death rate of 13·2 per 1,000, as compared with 15·3 in the 76 large towns. Amongst these towns the death rate for the first quarter ranged from 8·6 per 1,000 in Willesden to 20·0 in Manchester. Sixty-one deaths were ascribed to the principal infectious diseases, being equal to an annual death rate of 1·3 per 1,000 for the first quarter. The average death rate from these diseases in the 76 large towns was 1·7 per 1,000 for the same period, ranging from 0·06 in Hastings to 5·01 in Warrington. The deaths from infectious diseases during the second quarter in Cardiff included 19 from measles, 18 from whooping cough, 7 from scarlet fever, from diphtheria, and from diarrhœa, 2 from fever, and 1 from small-pox. The proportion of deaths under one year of age to 1,000 births was 111, as compared with 120 the average proportion in the 76 large towns.

In the third quarter of the year the number of deaths registered was 626, corresponding to an annual death-rate of 14.2 per 1,000, as compared with 17.5, the rate in the 76 large towns. Amongst these towns the death rate for the third quarter ranged from 7.7 in Hornsey to 26.9 in Liverpool.

One hundred and thirty-six deaths were ascribed to the principal infectious diseases, being equal to an annual death rate of 3.0 per 1,000. The average death rate from these diseases in the 76 large towns was 5.0 per 1,000 for the third quarter.

The deaths from infectious diseases during this quarter, in Cardiff, included 105 from diarrhea, 13 from whooping cough, 5 from measles and from scarlet fever, and 4 from Diphtheria and from fever. The proportion of deaths under one year of age to 1,000 births was 177, as compared with 229 the average proportion in the 76 large towns.

In the fourth quarter of the year the number of deaths registered was 623, corresponding to an annual death rate of 14.1 per 1,000, as compared with 17.4 the rate in the 76 large towns. Amongst these towns the death-rate for the fourth quarter ranged from 8.4 per 1,000 in Hornsey, to 23.0 in Hanley.

Thirty-eight deaths were ascribed to the principal infectious diseases, being equal to an annual death rate of 0.8 per 1,000. The average death rate from these diseases in the 76 large towns was 1.5 per 1,000 for the fourth quarter. The deaths from infectious diseases during this quarter, in Cardiff, included 11 from measles, 8 from whooping cough and from diarrhea, 4 from scarlet fever and diphtheria, and 3 from fever. The proportion of deaths under one year of age to 1,000 births was 130, as compared with 147 the average proportion in the 76 large towns.

From the foregoing remarks it will be seen that the general death rate for the whole town was unusually low, being 1.9 per 1,000 below the average in the preceding 10 years, and 2.0 per 1,000 below the average in the 76 large towns in the year 1904. In each quarter of the year also the general death rate was below the average rate in the large towns.

The deaths from the principal infectious diseases in the year 1904 corresponded to a death rate of 0.84 in Cardiff, as compared with 1.57 the average rate in the 76 large towns for the same period. With the exception of the first quarter of the year the death rate from these diseases was below the average in the 76 large towns. This rate was raised in the first quarter by the extensive prevalence, in Cardiff, of measles and whooping cough in young children, amongst whom the fatality was great.

TABLE XI.

Annual death-rate per 1,000 in some of the large towns in England and Wales for the 10 years 1595-1904-inclusive:—

				Aı	nnual D	eath-rat	e per 1,	000 livi	ng.		
Large To	WNS.	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904
London		 19-8	18-6	18-2	18.7	19.8	18.8	17-6	17:7	15.7	16-1
West Ham		 17.9	16-1	15.7	15.4	16:7	15.9	18-0	17:1	15.3	16.7
Croydon		 14.5	14.2	13.1	13.9	15.0	14.6	12.9	14.0	11.8	13.8
Brighton		 18.9	16.1	15.1	16.9	19.0	17.8	16.5	15.8	14.3	16.6
Portsmouth		 17.8	16.6	16.2	16.3	19.7	17.3	17-9	16.8	14.7	16.8
Plymouth		 20.1	19.6	19.0	19.5	21.7	20.8	17.9	17.0	16.5	18.7
Bristol		 18.1	16.9	17.2	17.2	18.2	16.7	16-0	17.4	14.3	15.4
Swansea		 18.3	16.8	15.8	18.6	18.1	17.1	18-6	16.1	18.6	17.7
Wolverhampton		 24.4	20.0	22.5	21.3	21.8	22.5	16-9	16.4	15.5	14.6
Birmingham		 20.3	20.8	21.6	20.0	20.8	21.5	20.5	18.6	17.8	19.3
Norwich		 19.3	17.4	18.8	19.0	17.3	17.6	18.7	16.7	15.2	18.2
Leicester		 17.2	16.7	17.7	16.9	17.7	17-4	15.9	14.9	14.2	14.5
Nottingham		 19.0	17.5	18.8	17.7	20.0	19.1	18.5	16.9	16.9	17.5
Derby		 16.7	15.7	16.0	16-8	16.9	17.5	15.2	13.9	13.6	15.1
Birkenhead		 19.5	19.2	18.3	17-4	19-2	16.8	18.7	17.7	16.8	19.8
Liverpool		 28.8	22.7	24.4	24.0	26.4	25.7	22.3	22.5	20.5	21.9
Bolton	***	 24.0	20.7	22.0	19.4	19.9	19.5	18.2	16.9	17.5	16.9
Manchester		 25.2	22.6	23.1	21.9	24.6	24.1	22.1	20.0	19.7	21.3
Salford	20	 25.6	22.6	23.9	22.7	23.8	25.1	21.7	19.3	19.0	21.0
Oldham		 22.0	20.3	19.2	17.6	20.5	19.6	19.6	19-1	18.6	18.3
Burnley		 23.4	11.5	19.5	16.3	19.6	16.3	19.0	19.5	19.2	20.0
Blackburn		 24.3	17.9	19.5	18.4	19-1	20.5	19.5	16.9	15.7	17.2
Preston		 23.9	20.8	24.4	19.3	22-8	24.0	21.0	19 1	18.7	17.8
Huddersfield		 16.9	16.5	16.4	15.9	16.2	16.8	16.7	17.8	16.7	17:5
Halifax		 19.3	17.3	16.5	17.9	18.3	18-1	16.4	15.7	15:0	15.5
Bradford		 19-9	16.5	17.5	17.6	18.4	16.4	16.8	15.8	16:4	17.5
Leeds		 20.5	18.8	19-9	19.2	19.1	20.0	19:3	17.6	16.6	17:9
Sheffield		 20.5	19.3	21.2	20.2	22.2	22.6	20.4	17.1	18.6	168
Hull		 20.8	18.9	18.6	18.4	19-3	19.7	18.6	17.2	16.9	18.0
Sunderland		 21.8	19.8	19.7	22.6	21.5	21.4	21.4	19.5	19.9	19.4
Gateshead		 19.6	19-1	18.3	20.6	18.8	19.0	21.6	17.7	16.7	18.5
Newcastle-on-Ty	ne	 20.5	18.5	19.1	21.4	20.6	19.5	21.9	19.9	19.2	19.4
Cardiff		 19.9	19.0	16.8	17.0	18.1	16.5	15.7	16.9	14.4	15'2

TABLE XII.

Gives the population of each year, the annual deaths from all causes from the seven chief zymotic diseases, and the death-rates from 1852 to 1904 inclusive, in the Borough of Cardiff:—

			All Causes.	Seven Chief Zymotic Diseases.			
Year.	Population.	No. of Deaths.	Death Rates Mean of per 1,000. 10 years.	No. of Deaths.	Death Rates Mean of per 1,000. 10 years		
1852	19,724	620	31-4	175	8.87		
1853	21.094	644	30-5	129	6.1		
1854	22,464	925	41.1	353	15.7		
1855	23,834	641	26.9	71	2.7		
1856	25,204	772	30-6	136	5.9		
1857	26,574	883	33.2 >29.2	234	8-8 >6-3		
1858	27.944	753	26.9				
	29,314	826	28-1	128	4.5		
1859		662	21.5	212	7-2		
1860	30,684	837	26.1	95	3.0		
1861	32,054			100	3.1)		
1862	32,804	695	21.2	132	4.0		
1863	33,552	862	25.7	268	7.0		
1864	34,300	932	27 1	250	7-3		
1865	35,048	867	24.7	161	4.5		
1866	35,796	882	24.6	192	5:3 4:6		
1867	36,544	873	23.8	116	3.1		
1868	37,292	843	22.6	109	2.9		
1869	38.040	1,005	26.4	156	. 4.1		
1870	38,788	903	23.2	133	3.4		
1871	39,356	891	22.5	158	3.9		
1872	40,284	916	22.7	234	5.8		
1873	41.032	995	24-2	103	25		
1874	41,789	885	21-2	154	3.6		
1875	69,850	1,547	22.1	294	4.2		
1876	72,438	1,455	90.9	339	4-6-1		
1877	75,026	1,475	19.6 >20 0	255	3.5		
1878	77,614	1,468	18-9	197	2.5		
1879	80,202	1,428	17-6	137	1.7		
1880	82,790	1,634	19.7	306	3.7		
1881	85,378	1,556	18-2	164	1:9		
1882	88,603	1,724	19-4	293	3.3		
1883	91,204	1,807	19-8	253	2.7		
1884	93,468	2,250	24-3	476	5.0		
1885	97,034	2,481	25-5	521	5-3		
1886	100,736	2,269	00.5	532	3.9		
1887	104,580	2,280	21.8 >21.5	278	26 >3.3		
1888	108,570	2,212	20.3	324	2.9		
1889	112,712	2,190	19.4	248	2.1		
1890	117,012	2,469	21.1	282	2.4		
1891	130,283	2,873	22.0	272	2-0		
			19.2		2.7		
1892	132,895	2,560		371			
1893	136,168 139,519	2,794	20 4	408	2.9		
1894	(0.000 E.C. (0.00)	2,415	17-3	257	1.8		
1895	142,958	2,840	19-9	324	2.2		
1896	146,479	2,795	19:0	362	2.4 2.3		
1897	150,087	2,534	10.9	371	2.4		
1898	153,783	2,627	17.0	396	2.5		
1899	157,414	2,858	18.1	384	2.4		
1900	161,452	2,667	16.5	402	2.4		
1901	165,308	2,653	16.0)	284	1.7)		
1902	168,909	2,865	16-9	459	2.6		
1903	172,598	2,496	14-4	232	1.3		
1904	176,313	2.695	15:2	320	1.8		

* Canton and Roath taken into the Borough.

Populations and death-rates as estimated by the Registrar General previous to the Census of 1901:—

Year.	Est	imated Popula	tion.	Dea	th-rate.	Year.	Esti	imated Popula	tion.	Deat	h-rate.
1892		136,181		18.7 per	1,000	1897		170,063		14.9 p	er 1,000
1893		142,435		19.6		1898		170,770		14.8	**
1894		148.890		16.2	11	1899		185,826		15.3	- 23
1895		155,637		18 2	**	1900		194,247		13.7	**
1896		162,690		16-8	***						

TABLE XIII.—Analysis of Deaths in the Municipal Borough of Cardiff in the Registration Sub-districts, and in each Ward in the Borough

during the Year 1904,

1	organs	Desth-rate.	2.54	274 176 301	2.53		9.30		2.11	:		:	:
	Diseases Diseases	Deaths	149	32.5	26		34	and the same of th	44.0	-	30	75	1
		Death-rate.	9	0-88 0-66 1-27	16.0	2-15 1-83 0-84 1-03	1.34		1.00	:	:	:	:
1	Phthisis	Deaths.	240	= 22 10	28		107		28	:	8	-	:
10 8	of her forms	Death-rate.	1 12	0.54	0.63	0.56	0.37		0.20	:	:	:	:
3.6	Tabes Mesen Tuberculi Meningitis,	Deaths.	97	2 9 8	33	04 :22 5-	16	01 01 10	53	:	9	01	:
		Death-rate.	0.73	10.80	1.05	0.65 0.78 0.18	09-0		0.45	:	:	:	:
	.acodraeiQ	Deaths.	129	25 25 26	65	1-0-4-4	460	= 6 9	26	:	4	:	:
	Fever.	Death-rate.	1:	111	-				:	:	1	:	:
	snqd&L	Deaths.	1	0.1.1				111	1	:	:	:	1
	Pever.	Death-rate.	0.02	0.11	0.03		0.05		0.01	:	;	:	:
1	Typhoid	Deaths.	0	; c3 ;	03	: :- 01	ec	::-	-	01	:	-	:
Diseases	Cough.	Death-rate.	0.34	0-12 0-44 0-51	0.34		0-28		0-41	:	:	:	-
Zymotic D	BuidoouM	Deaths.	19	28.01	121		16		1.7		:	:	2
	- mary manufacture	Death-rate.	0-17	0-16 0-05 0-20	0.14	0.26 0.18 0.07	0-14	0	0 02	:	:	1	:
Principal	Diphtheria.	Destps.	31	4-4	6	: 0 4 -	00		63	10	:	-	1
Pe		Death-rate.	0-14	0.00	0.01	0.09	0-10		0.01	:	1	:	:
	Scarlatina.	Deaths.	25	::=	-	00 01	9	- :	-	14	- 3	:	:
	Secure and the	Desth-rate.	0.36	0-25 0-33 0-66	0-40	0.28 0.17 0.47 0.07	0.28		0.24	:	1	-	:
	Measles.	Deaths.	19	9 9 5	255	1000	16	63 4 00	7	:	6	-	1
		Death-rate.	0.002	1:::	;	1111		:::	:	:	÷	:	1
	Small-pox.	Deaths.	-	:::	:	::::		:::	:	-	:	:	1
18951095	Nymotic Dis	Death-rate.	1-81	1.18 1.65 2.76	1.98	1-02 1-31 1-41 2-30	1.52	1.27 1.76 0.74	1.17	:	:	1	1
	Seven Ch	Deaths.	320	38	122	23 88 22	85	21 28 19	89	30,	13	Ci	-
	der One Year the Registere		144	135	148	173 164 110 142	138	163 123 120	137	:	259	:	
9	.star-disc	D	14-7	12.0 11.3 15.2	12.8	15.2 11.2 15.5 15.5	13.5	130	12.0	:	:		:
	al Deaths.	ToT	809,	287 206 299	792	163 163 236 195	757	249 211 210	200	33	242	8	6.5
	.otar-diri	a	29-5 2,608	23.5	31-1	25-8 20-9 30-1 33-9	28.1	37.4 228.1 21.9	28.0	:	:	:	:
	Shring to	0.1	5,208	697 428 786	_	231 231 641 427	1,575	619 2	1,626	:	96	:	
	tal Births.				116,11		_						-
	one per Acre.	Perse	3 27	. : :	0 29	::::	2 14	:::	1 120	:	:	:	:
	a in Acres.	му	6,373	:::	2,060	::::	3,832	:::	481	:	:	:	:
	.\$061 ,noisel	Popu	176,313	23,722 18,136 19,563	61,421	10,683 11,422 21,242 12,567	55,914	16,518 15,834 25,578	57,930	162	880	17.5	49
	LOCALITIES.		:	Canton Ward Riverside Ward Grangetown Ward	: : · · · · · · · · · · · · · · · · · ·	South Ward Central Ward Cathays Ward Adamsdown Ward	Cardiff	Splott Ward Routh Ward Park Ward		Infectious Diseases Hospital	khouse	:	ospital
	10		Borough of Cardiff		West Cardiff			East Cardiff Registration Sub-district.	East Cardiff	Infectious I	Union Workhouse	Infirmary	Seemen's Hospital

INFANT MORTALITY.

The following table shows the rate of infant mortality which has prevailed in the large towns in past years.

TABLE XIV.

Tows			Death under one year to 1,000 Births registered.									
			1895	1896	1897	1898	1899	1900	1901	1902	1903	190
London			166	161	158	167	167	160	149	141	131	144
West Ham	***		168	165	171	170	197	189	171	149	146	168
Croydon			134	150	134	150	154	132	141	132	108	129
Brighton			164	135	142	181	173	166	161	125	114	13
Portsmouth			175	154	168	156	197	155	163	152	114	140
Plymouth			178	178	183	170	190	175	149	155	144	17
Bristol			143	142	148	164	158	133	131	131	116	13
Swansea	***		178	161	139	184	166	175	174	135	165	175
Wolverhampton			218	184	217	200	184	206	163	134	141	15
Birmingham	***		183	197	214	191	191	199	187	157	159	19
Norwich			190	164	196	192	179	178	183	167	150	18
Leicester			203	187	205	191	195	175	175	153	160	16
Nottingham			190	168	205	178	210	196	193	159	165	17
Derby			161	151	167	169	162	174	154	125	128	14
Birkenhead			174	177	162	186	186	160	181	148	156	18
Liverpool			210	173	200	184	198	186	188	163	159	19
Bolton			212	168	186	168	181	171	172	134	152	16
Manchester			203	176	194	197	206	189	199	152	169	18
Salford			231	199	220	212	209	207	204	157	167	19
Oldham			190	184	183	175	198	172	173	148	160	15
Burnley			242	170	219	195	269	205	226	177	217	23
Blackburn			236	171	207	206	189	220	193	159	157	19
Preston			248	203	263	225	255	236	216	189	161	18
Huddersfield			158	166	130	153	152	132	132	138	120	13
Halifax	***		158	149	139	163	159	132	127	144	122	13
Bradford			203	143	178	185	181	141	168	139	148	16
Leeds			191	169	191	182	171	183	188	159	153	17
Sheffield			197	173	197	195	194	200	201	150	182	15
Hull			205	173	178	182	175	183	175	137	162	18
Sunderland			189	158	163	202	175	169	182	147	157	16
Gateshead			186	172	173	208	177	169	197	136	159	17
Newcastle-on-T			186	165	177	190	193	170	178	139	165	15
Cardiff	, 110	***	179	165	150	158	164	141	148	145	122	14

The infant mortality in the Borough during the year compared favourably with that in previous years, being slightly below the average. The number of deaths under one year of age to 1,000 births registered, was 144 in the year 1904, as compared with 153 in the 10 years 1894—1903. The rate of infant mortality in the year 1904, in England and Wales, was 146, and in the 76 large towns 160.

Notwithstanding the comparatively favourable character of these statistical returns, there are others from the contemplation of which we do not derive so much satisfaction. They indicate rather that the community is subject to influences which are operating in an entirely contrary direction. The effect of these influences is by no means confined to this locality, and has been felt more or less acutely, for many years past, throughout the United Kingdom. It is only in quite recent years that the downward movement has set in in Cardiff. The Chief factors concerned in this movement are:—

- (1) A decline in the marriage rate.
- (2) A continuous and uninterrupted decline in the birth rate.
- (3) A stationary or increasing rate of infant mortality.
- (a) Decline in the Marriage Rate.—With respect to the marriage rate, the Registrar General remarks that "Since a large majority of the population are either already married, or are below the minimum age at which marriages take place, it is manifest that the total population is not a satisfactory standard by which to measure the rate of marriage."

It will be seen on referring to table VIII, that taking either the marriage rate or the actual number of marriages during the year, that a decline is taking place in Cardiff, and generally it may be stated that throughout the country the marriage rate is declining in proportion to that section of the population among which marriages take place.

(b) DECLINE IN THE BIRTH-RATE.—In England and Wales this decline commenced about the year 1880. The rate which averaged 35:5 per 1,000 of the population from 1861 to 1880 fell as follows:—

Periods.			Birth	-rate.
1881-1885	 	 	 33.5 F	er 1000
1886-1890	 	 	 31.4	**
1891-1895	 	 	 30.2	33
1896-1900	 	 	 29.3	.99
1901-1903	 	 	 28.5	33
1904	 	 	 27-9	- 11

In Cardiff, the birth-rate which averaged 41 per 1,000 during the ten years ending 1890, commenced to decline soon after that year, as follows:—

Year.				Birt	h-rate.
1891	 		 	36.5	per 1,000
1892	 		 	35.3	**
1893	 *		 	36.0	***
1894	 		 	34.4	"
1895	 		 	34.1	,,
1896	 		 	34.3	**
1897	 	4.4	 	31.1	"
1898	 		 	31.1	**
1899	 		 	28.6	**
1900	 		 -	35.2	,,
1901	 		 	31.4	,,
1902	 		 	31.2	11
1903	 		 	30.5	22
1904	 		 	29.5	,,

Various causes have been assigned for the decline in the marriage and birth rates, into which it is unnecessary to enter in this report, as they are beyond the direct control of the Sanitary Authority. It has been suggested that this decline in the birth rate is of little importance in view of the decreasing death rate, but it must be borne in mind that a birth rate may decline indefinitely, whereas there is a limit below which a death rate can hardly go. For instance, in a stationary population, an annual death rate of 10 per 1,000 implies a mean age at death of 100 years, it is clear therefore that in Cardiff we cannot hope for a continuous death rate much below our present figure of 15 or 14 per 1,000. If therefore our birth rate continues to decline, and our death rate remains stationary, we may be approaching a period when, apart from immigration, the population will begin to diminish.

(c) The rate of infant mortality is, however, a matter with which the Sanitary Authority is very directly concerned, as this may undoubtedly be reduced by energetic and well directed administrative work. The rate is usually calculated in the proportion of the number of deaths of children under one year of age to 1,000 births registered, and for the whole of England and Wales, is given by the Registrar General, as follows:—

Periods.			hs under 1 yea 1,000 births.	r
1876-1880	 	 	144	
1881-1885	 	 	138	
1886-1890	 	 	145	
1891—1895	 	 	150	
1896—1900	 	 	156	
1901	 	 	151	
1902	 	 	133	
1903	 	 4.45	132	
1904	 	 	146	

The rate of infant mortality varies considerably in different parts of the country, being much higher in the large Urban Districts than in Rural Districts. This is shown in the following table, taken from the Registrar General's Summary for the year 1904:—

		Annu	rate of Infants under 1 year, 1,000 births.
England and Wales	 		 146
76 great towns	 		 160
142 smaller towns	 		 154
Rural England and Wales	 		 125

The rate of infant mortality in the large towns, as compared with that of Cardiff, during successive periods, is shown in the following table:—

TABLE XV.

THIRTY-TH	REE LARGE TOWNS.		CARDIFF.
Period.	Death-rate of Infants under 1 year, per 1,000 births.	Period.	Death-rate of Infants unde 1 year, per 1,000 births.
1881-1890 .	. 162	1881-1890	165
1891-1900	172	1891-1900	161

The recent rates in the large towns are not compared with those in years previous to 1900, as the Registrar General has since that date included 76 in the list of large towns. From the foregoing figures it will be seen that the infant mortality in the whole of England and Wales is stationary, or even slightly increasing, and that in the large towns it is actually increasing, and that in Cardiff the rate of infant mortality has been reduced to an average of 153 in the 10 years 1894—1903, and to 144 in the year 1904. The increasing rate in the whole of England is, of course, largely due to the greater increase in the large towns, as no such increase is found in the rural districts. The rate of infant mortality in Cardiff appears to be diminishing, although it must be borne in mind that exceptional meteorological conditions in 1902 and 1903, by reducing the diarrhea death rate amongst infants, were largely responsible for the low rates in those years. It will be seen also that in Cardiff the rate of infant mortality was below the average rate in the large towns in each quarter of the year 1904, excepting the first quarter, in which measles and whooping cough was exceptionally fatal amongst infants and young children.

Even in the large urban districts the rate of infant mortality varies considerably, being higher in the densely populated manufacturing and mining towns. During the year 1904 this rate ranged from 87 in Hornsey, 102 in King's Norton, 107 in Hastings, and 115 in Willesden, to 183 in Preston, 188 in Wigan, 190 in Rhondda, 191 in Blackburn, 193 in Salford, 195 in Birmingham, 196 in Liverpool, 201 in Stockport, and 206 in Hanley. It is evident therefore that the conditions of life in the large industrial centres are inimical to infant life. These conditions in Cardiff stand, as it were, between the two extremes, the satisfactory feature being that although the rate of infant mortality was formerly (1881—90) 3 per 1,000 above the average rate in the large towns, it was reduced during the more recent period (1891—1900) to 11 per 1,000, and during 1904 to 16 per 1,000 below that average.

It will be well to consider the causes of death, which are chiefly responsible for the mortality amongst infants and young children. Generally, they include the following:—Pneumonia, bronchitis, diarrheal diseases, measles, whooping cough, convulsions, atrophy debility and inanition, and tubercular diseases. In Cardiff, during the year 1904, the chief causes of death amongst infants was as follows:—

Causes of death.		Number of deaths of infants under 1 year of age.				
Diarrhœa	 		105			
Premature birth	 		78			
Pneumonia	 		74			
Bronchitis	 		44			
Tuberculosis	 		38			
Whooping Cough	 		31			
Measles	 		22			

The following table shows the percentage proportion of deaths under 5 years of age, to the total deaths at all ages, from certain diseases, in Cardiff, during the year 1904:—

Measles		 95 p	er cent.
Whooping Cough		 93	,,
Diarrhœa	**	 93	"
Diphtheria and Cr	oup	 87	***
Scarlet Fever		 64	,,
Pneumonia		 55	"
Bronchitis		 33	"

As usual, most of the deaths from diarrhoea occurred during the summer and autumn. Much of this mortality could be prevented if proper attention were given to the feeding of infants and young children. Many of the deaths from diarrhoeal diseases are directly attributable to improper food and to the want of care and ignorance of mothers, and those in charge of them. There is much evidence to show that artificial feeding is responsible for the unnecessarily high rate of infant mortality, especially during the hot weather, when the conditions are most unfavourable for the preservation of the various kinds of foods administered. With a view of reducing the infant mortality caused by improper food, municipal milk depots have been estab-

lished in some large towns and districts, from which sterilized and humanized cows' milk is supplied to mothers at a reasonable charge. These institutions are well spoken of by those who have been instrumental in their establishment. At present, however, it is not possible to give a decided opinion as to the advantages of the municipality undertaking this work. In my opinion, for any such scheme to be of real service, the Local Authority should have complete control of the Dairy or Farm supplying the milk, which should be administered only to suitable cases under medical supervision.

INFECTIOUS DISEASES.—The 2,704 deaths from all causes included 320 from the principal infectious diseases. The subjoined table shows the number of deaths from each of these diseases during the year 1904:—

Disease.			Number of Deaths.
Small Pox			 1
Measles			 64
Scarlet Fever			 25
Whooping Coug	h		 61
Diphtheria and	Membranous	Croup	 31
Enteric Fever			 9
Diarrhœa			 129
		Total	 320

The 320 deaths from these diseases were equivalent to an annual death-rate of 1'8 per 1,000 persons living, as compared with 1'3 the rate in the year 1903, and with 2'2 the average rate in the ten years 1894—1903.

The death-rate from the principal infectious diseases in England and Wales, in 1904, was as follows:—

		De	ath-rate per 1.000
England and Wales		 	1.94
76 great towns		 	2.49
142 smaller towns		 	2.02
Rural England and V	Wales	 ***	1.28

In Cardiff the death rate from this group of diseases in the several Registration Subdistricts was as follows:—

East Cardiff	Registration	Sub-District	 1.17 per	1,000
West ,,	11	,,	 1.98 ,,	
Central ,,	,,	,,	 1.52 ,,	

TABLE XVI.

Cases of infectious diseases notified in the Cardiff Urban Sanitary District since the adoption of the Infectious Diseases Notification Act, 1889:—

		1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	190
Small-pox			9	5	4	10	1	45	7			,	8	2	65	1
Diphtheria		63	67	155	462	326	229	296	512	940	628	706	724	686	431	38
Croup		9	3	9	17	17	19	10	4	20	12	8	10	15	7	1
Scarlet Fever		335	685	1,851	816	577	484	874	758	332	184	383	1,362	1,433	963	65
Enteric Fever		152	130	118	105	62	79	74	117	80	94	95	73	76	105	4
Typhus Fever	+ +				41	1		1				4			6	-
Erysipelas		45	52	95	152	135	132	134	163	133	176	106	152	169	145	11
Puerperal Fever		4	10	12	24	19	17	21	12	18	13	15	16	13	20	1:
Total		608	956	2,245	1,621	1,147	961	1.455	1,573	1,523	1,107	1,321	2,345	2,394	1,742	1,24

MEASLES.—Sixty four deaths were registered as due to measles during the year 1904. These deaths were equivalent to an annual death-rate of 0.36 per 1,000 persons living, as compared with 0.15 the rate in the year 1903, and with 0.38 the average rate in the ten years 1894—1903.

From the above it will be seen that the rate of mortality from measles was high throughout the country during the year 1904.

In Cardiff the rate of mortality was highest in the first quarter of the year. The following table shows the death-rate in each quarter as compared with that of the large towns:—

Death-rate per 1,000 from measles :-

		1st Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.
Cardiff	 	 0.66	0.45	0.11	0.24
76 large towns	 	 0.46	0.64	0.38	0.42

It is with regret that Medical Officers of Health throughout the country, and especially those in large towns, have to report that the mortality from measles has increased during the past twenty-five years. Many difficulties stand in the way of controlling the spread of this disease. In the first place the disease is not notified to the Medical Officer of Health, and secondly, the effectual isolation of even those cases which are known to exist, is difficult to secure. We may, however, anticipate an improvement in this direction when the new Education Authorities realize their great responsibilities in connection with the prevention of disease amongst school children. Up to the present, by permitting and encouraging the attendance at school of children at the early age of three years, the opportunities of infection have been increased, particularly amongst children at the ages at which measles is most fatal.

SCARLET FEVER. — Twenty-five deaths were registered from scarlet fever, corresponding to an annual death-rate of 0.14 per 1,000 persons living, as compared with 0.18 the death-rate in 1903, and with 0.11 the average death-rate in the ten years 1894—1903.

The number of cases of scarlet fever notified during the year 1904 was 658. The number of such cases notified in each year since the Infectious Disease Notification Act came into force is shown in the following table, which shows also the attack rate, or proportion of cases notified per 1,000 persons living and the death rate per 1,000, and the percentage proportion of deaths to cases notified:—

TABLE XV	711	r

				TABLE	XVII					
Yar.		Population.	No. of Cases Notified.	Attack rate per 1,000.	1	No. of Deaths.	Death rater per 1,000.	Removed to Hospital.	cent	tality per . of Cares otified.
1891		130,283	685	 5 25		35	 0.27	 -		5.0
1892	**	132,895	1,851	 13.17		87	 0.65	 13		4.7
1893		136,168	 816	 6.00		39	 0.28	 22		4.7
1894		139,519	 577	 4.13		8	 0.02	 31		1.3
1895		142,958	 484	 3.38		8	 0.02	 43		1.6
1896		146,479	 874	 5.96		28	 0.19	 48		3.2
1897		150,087	 758	 5.05		17	 0.11	 50		2.2
1898		153,783	 332	 2.12		8	 0.02	 56		2.4
1899		157,414	 184	 1.16		3	 0.01	 66		1.6
1900		161,452	 383	 2.37		11	 0.06	 65		2.8
1901		165,308	 1,362	 8.23		29	 0.17	 47		2.1
1902		168,909	 1,433	 8.42		36	 0.51	 48		2.1
1903		172 598	 963	 5.57		32	 0.18	 63		3.7
1904		176,313	 658	 3.73		25	 0.14	 72		3.3

The local incidence of scarlet fever in each quarter of the year, as shown by the notifications in the Registration Sub-Districts, was as follows:—

West Cardiff	 	1st Quarter. 78	2nd Quarter. 66	3rd Quarter. 43	4th Quarter. 42	Total. 229
Central Cardiff	 	111	50	37	49	247
East Cardiff	 	65	25	39	53	182
		_	_	-	-	-
Total		254	141	119	144	658

The proportion of deaths from scarlet fever to cases notified amounted to 3.7 per cent., and of these 658 cases, 478 or 72 per cent. were removed to the Hospital for Infectious Diseases.

A large number of certificates for exclusion from school attendance were granted, both with respect of children infected with scarlet fever and of those who had been in contact with infected persons. The total number of notices for exclusion from the Public Elementary Schools amounted to 808 during the year distributed as follows:—

Name of School,		Number of Notices sent to Schools.
Roath Park Council School		95
Crwys Road Council School		60
Severn Road Council School		57
Gladstone Council School		54
Albany Road Council School		53
Court Road Council School		47
Adamsdown Council School		44
Wood Street Council School		36
Grangetown Council School		30
St. Peter's Roman Catholic School		30
St. James' National School	**	29
Marlborough Road Council School		24
Radnor Road Council School		23
Higher Grade School		22
St. German's National School		19
St. Monica National School		19
St. David's Roman Catholic School		18
Stacey Road Council School		17
Virgil Street Council School		16
St. Patrick's Roman Catholic School		13
Mount Stuart Square National School		12
St. Paul's Roman Catholic School		11
Eleanor Street Council School		9
Lansdowne Road Council School		9
Moorland Road Council School		9
Splott Road Council School		8
St. Andrew's National School		7
St. John's (Canton) National School		7
Grangetown National Schools		6
Intermediate Schools		4
St. Cuthbert's Roman Catholic School		4
Bute Terrace National School		2
School for Deaf and Dumb		2
South Church Street Council School		2
Crofts Street National School		2
St. John's (Queen Street) National School		2
Maindy Council School		2
Heathfield House School		1
St. Alban's Roman Catholic School		1
St. Dyfrig's National School		1
Ely Council School		i
	m . 1	000

Total

DIPHTHERIA AND MEMBRANOUS CROUP.—Thirty-one deaths were registered from these diseases during the year 1904, corresponding to an annual death-rate of 0.17 per 1,000 persons living, as compared with 0.20 the rate in 1903, and with 0.46 the average rate in the 10 years 1894—1903.

The number of cases of diphtheria notified during the year was 389, as compared with 438 in the year 1903. The following table shows the number of notifications of cases of diphtheria and the mortality in each year since 1891:—

TABLE XVIII.

Year.	Population.	No of Case Notified.	cs	No of Deaths,	Death-rate per 1000,	tality per Cent. ases Notified.	
1891	 130,283	 67		16	 0.51	 23.8	
1892	 132,895	 155		36	 0.27	 23.2	
1893	 136,168	 462		93	 0.67	20.1	
1894	 139,519	 326		59	 0.42	 18.0	
1895	 142,548	 229		46	 0.35	 20.0	
1896	 146,479	 296		55	 0.38	 18.6	
1897	 150,087	 512		90	 0.28	 17:5	
1898	153,783	 940		129	 0.84	 12.6	
1899	 157,414	 628		61	 0.38	 9.7	
1900	 161,552	 706		81	 0.60	 11.4	
1901	 165,308	 724		78	 0.47	 10.7	
1902	 168,909	 686		88	 0.25	 12.8	
1903	 172,598	 438		36	 0.50	 8.2	
1904	 176,313	 389		31	 0.17	 7.9	

It is satisfactory to note that the incidence of diphtheria, as represented by the number of notifications, has sensibly declined during the past three years, and that the death-rate in 1904 was the lowest recorded since 1891. The fatality or proportion of deaths from diphtheria to cases notified in Cardiff during the year 1904 was at the rate of 7.9 per cent. This was also the lowest fatality during the same period, and showed that the disease was generally of a mild type. Of the cases notified 193, or 48 per cent., were removed to the Cardiff Sanatorium for isolation and treatment

Diphtheria was distributed amongst the Registration Sub-Districts as follows, in 1904:-

			Notifications.						
East Ca	rdiff	 		115		3			
Central	**	 		142		8			
West	11	 		132		9			

This disease chiefly attacks children, amongst whom it frequently assumes a severe and fatal form. The number of notifications and the rate of fatality at various age periods, in Cardiff, during the year 1904, is given below:—

Age Periods.	Cases Notified.	Deaths.	Proportion of Deaths to Cases Notified.
Under 1 year	 7	 5	 71'4 per cent.
1—5 years	 112	 22	 19.6 "
5-15 ,,	 187	 4	 2.1 "
15-25 ,,	 41	 	 0.0 "
25-65 ,,	 42	 0	 0.0 "
65 years and upwards	 0	 0	 0.0 "

The death-rate from diphtheria in the large towns during the year 1904 ranged from 0.02 per 1,000 in West Bromwich, with 0.03 in Hastings and Leicester to 0.50 in Salford, 0.53 in Bradford, and 0.60 in Hanley.

DIARRHŒA.—The deaths from diarrhœa, including those from epidemic enteritis, numbered 129, being equal to an annual death-rate of 0.73 per 1,000 persons living, as compared with 0.47 the rate in 1903. The average death-rate from diarrhœa in Cardiff in the 10 years 1894—1903 was 0.68 per 1,000.

The mortality from diarrhoea throughout the country in the year 1904 was as follows :-

		WAS CHARLE THE SEC.	
England ands Wales	 	 0.86 per 1,00	0
76 great towns	 	 1.20 ,,	
142 smaller towns	 	 0.89 ,,	
Cardiff	 	 0.73 ,,	

The distribution of fatal diarrhoea in Cardiff according to the season of the year, and the various age periods, was as follows:—

		Under one Year.	One and under Five Years.	Five and under Fifteen Years.	Fifteen and under Twenty-five Years.	Twenty-five and under Sixty-five.	Sixty-five years and upwards.	Total.
1st Quarter, 1904	 	6	2			-	1	9
2nd Quarter ,	 	3	-	1	-	2	1	7
3rd Quarter "	 	89	12	1	-	3	_	105
4th Quarter "	 	7	1	_	-	_	-	8
Year "	 	105	15	2		5	2	129

From the preceding table it will be seen that of the 129 deaths from diarrhea during the year, 105 occurred in the third quarter of the year; of these 89 were amongst infants under one year of age.

The relation between the temperature of the air, rainfall, and the diarrhea mortality during the third quarters of the year 1892—1904 is shown in the following table:—

TABLE XIX.

Diarrhoeal mortality in the 3rd quarters of the years 1892—1904

Year.	Death-rate per I,000.		Mean Temperature.	Rainfall in inches,
1892	 2.3		60°.4	 12.4
1893	 2.2		61°.0	 8.8
1894	 0.2		57°·0	 3.01
1895	 2.2		59°-5	 9.9
1896	 2.4		58°-9	 11.3
1897	 2.6		59°-3	 14:3
1898	 2.6		60°-3	 5.8
1899	 3.2	200	63°-3	 5.3
1900	 1.2		59°-7	 6.0
1901	 1.4		60°·2	 11.1
1902	 0.8		57°-5	 9.5
1903	 1.2		56°-9	 13.1
1904	 2.3		59°-3	 11.1

From the foregoing table it will be seen that a high diarrheal death-rate is usually associated with a comparatively hot and dry summer, and a low death-rate with a cool and wet summer. This relation is also shown in the chart in the appendix.

As usual, an inquiry was made by Miss Hoyle, the Woman Inspector, into the nature of the food supplied to infants who died from diarrhoea. This inquiry is of course confined to those living in the poorer districts in the town. The results of this investigation is given below, and affords useful information as to the danger to infant life of artificial and improper food.

Nature of F	ood.		Under 3 Months.	3-6 Months.	6-12 Months,	Total,	
Condensed milk and other foo	d '		 3	4	17	24	
Condensed milk			 1	-	2	3	
Cows milk and other food			 3	3	11	17	
Cows milk			 2	-	-	2	
Breast fed and other food		***	 1	3	1	5	
Breast fed		***	 2	-	1	3	
Total						54	

When directed, Miss Hoyle visits the house in which a birth has occurred, and leaves a printed pamphlet of instructions on infant feeding, drawn up by the Medical Officer of Health, and at the same time gives any necessary verbal advice. The houses selected are those in which the poorer classes live, and in which such assistance is likely to be useful and appreciated. In this way it is hoped to obtain a record of the method of infant feeding adopted, and the extent of its influence upon infant mortality. The following table shows the number of visits made, and the results of the inquiries during the year 1904:—

Breast fed	 		189
Breast fed and other food	 		90
Condensed milk only	 		82
Condensed milk and other food	 		97
Cows milk and other food	 		34
			-
		Total	492

ENTERIC FEVER. — Nine deaths from enteric fever were registered during the year 1904. These deaths corresponded to an annual death-rate of 0.05 per 1,000 persons living, as compared with 0.08 the average rate in the 10 year: 1894—1903.

The mortality from fever (including typhus and enteric fevers) throughout the country was as follows:—

1904.			Death-rate.
England and Wales	 	 	0.09
76 great towns	 	 	0.10
142 smaller towns	 	 	0.10
Cardiff	 	 	0.02

In the large towns the death-rate from enteric fever during the year 1904 ranged from 0.01 per 1,000 in Hastings to 0.23 in Nottingham, 0.24 in Wigan, 0.25 in Preston and in Merthyr, to 0.34 in Rhondda.

Forty cases of enteric fever were notified during the year in Cardiff, of these twentythree were removed to the Sanatorium.

Notwithstanding the prevalence of enteric fever in some of the neighbouring urban districts, Cardiff remained comparatively free from the disease, and from the subjoined table it

will be seen that the mortality was far lower than the average in other parts of England and Wales. Of the cases notified as enteric fever, five were subsequently found to be suffering from some other disorder, and in 13 cases the source of infection was outside this district.

The drains and sanitary appliances in all the houses in which cases of enteric fever were notified were examined, and defects found in eight of these houses. These were remedied without delay.

SMALL-POX.—Eleven cases of small-pox were notified during the year; one of these proved fatal. They were all removed to the small-pox Hospital.

The first case of this disease notified during the year occurred in Adeline Street, on 1st The origin of the infection in this case was not discovered. The patient was a dock labourer, working on board a vessel in the Docks, in which it was stated that no case of Small Pox had occurred during the voyage or stay in port. At the time no other cases of this disease were known to exist in Cardiff. On the 16th March a female servant in the same house, who had refused re-vaccination, developed the disease. On the 4th April, the Resident Medical Officer in the Workhouse Infirmary notified a case of small-pox in the Tramp Ward. The man probably contracted the disease in a Common Lodging House in Matlock, where a lad aged 19 years was supposed to be suffering from Chicken Pox. On the 18th May, my attention was called to a convalescent case of small-pox in 202, Clive Street, Grangetown. The patient had been under medical treatment for some weeks for Chicken Pox, and had therefore opportunities of infecting others. The following cases occurred as the result of this infection: The first case notified was that of a woman living in Bradford Street, Grangetown, who contracted the disease by nursing and attending to her friend in Clive Street, and who called my attention on that day to the latter ca e. On the same day three children of Mrs. R., in Clive Street, were found to be suffering from small-pox, one an infant 4 months old, and one a boy 4 years old, both unvaccinated, and one a boy 8 years of age vaccinated in infancy. The unvaccinated children had the disease in a severe confluent form which proved fatal in the case of the infant. The vaccinated boy had a very mild and modified attack.

On the 30th May a man, living at 222, Clive Street, was found to have suffering from small-pox as the result of visiting No. 202 in the same Street, and on the 3rd June, two lodgers in the same house who refused re-vaccination were also attacked with small-pox.

No further cases occurred in this neighbourhood or in any part of the town during the year 1904. All those attacked were removed to the small-pox Hospital, a large quantity of infected clothing was destroyed, and many persons who had been in contact with those suffering from the disease were re-vaccinated.

The following particulars have been supplied to me by the Vaccination Officer of the Board of Guardians, and relate exclusively to the Borough of Cardiff. During the year 1904, 5,226 births were registered within the Borough, 476 children died unvaccinated; of the remainder 3,825, or 80.5 per cent, were successfully vaccinated; 38 certificates of conscientious objection were granted, equal to 0.7 of the births. In 97 cases the vaccination was postponed, 513, or 13.4 per cent. were unaccounted for; 18 infants were stated to be insusceptible of vaccination, and 259 had removed to places unknown.

Whenever cases of small-pox occur in the district some difficulty arises with respect to the vaccination or re-vaccination of those who have been in contact with the infected person. This, perhaps the most important measure which can be taken to prevent the spread of small-pox, does not devolve upon the authority responsible for the prevention of disease, but is carried out by the authority charged with the relief of the poor, i.e., the Board of Guardians. In accordance with a memorandum issued by the Medical Officer of the Local Government Board, dated March, 1901, the Medical Officer of Health is advised to give immediate notice to the Vaccination Officer of any case of small-pox in his district. It is the duty of the Vaccination Officer to take the necessary steps to ensure the vaccination or re-vaccination of persons who have been exposed to the infection of small-pox, and the Public Vaccinator, an official of the Guardians, is authorized to afford re-vaccination gratuitously to all persons over 10 years of age,

who have not previously been vaccinated or re-vaccinated within a period of ten years. In practice it is found that this offer of gratuitous vaccination is not a sufficient inducement, and that those who have been in contact with small-pox do not, to any great extent, avail themselves of it, more especially is this the case with sailors and inmates of common lodging houses, who are, perhaps, unwilling to risk the loss of a day's work

The Medical Officer of the Local Government Board, recognizing this difficulty, suggests (in the memorandum referred to) that in such cases it may be expedient that the Vaccination Officer should confer with the Guardians as to attendances being given by the Public Vaccinator at some specified place and hour. These methods of administration mean delay where promptitude is of the utmost importance. I would suggest that, with a view of securing without delay the re-vaccination of those exposed to infection, that the Sanitary Authority undertake themselves the responsibility of the re-vaccination in such cases, and that some further inducements be offered to those who submit to the operation for their own and for the public advantage. This work might be easily carried out at the office of the Port Sanitary Authority, and arrangements might be made either with the Public Vaccinator or with a medical practitioner, who would act in this matter under the direction of the Medical Officer of Health.

I feel sure that if some such method were adopted it would be easier than it is under the present arrangements to secure the vaccination and re-vaccination of those exposed to infection. The Medical Officer of Health and his staff of Inspectors usually have a better opportunity than the Vaccination Officer of collecting together such persons, and the place indicated would be suitable for the purpose.

TUBERCULOSIS. — The deaths from all forms of tuberculosis during the year 1904 amounted to 344, including 246 from pulmonary consumption, or phthisis.

The mortality from phthisis was equal to an annual death-rate of 1'36 per 1,000, the highest rate of any single disease during the year.

During the ten years 1894—1903 the average death rate from phthisis amounted to 1'34 per 1,000. The mortality from phthisis in Cardiff since the year 1880 is shown in the following table.

TABLE XX.

Year.	Death-rate per 1,000.	Year.		Death-rate per 1,000.
1880	 3.21	1893		1.68
1881	 2.96	1894		1.62
1882	 2.86	1895		1.67
1883	 2.67	1896		1.38
1884	 2.97	1897		1.99
1885	 3.28	1898	44 4	1.32
1886	 2:78	1899		1.32
1887	 2.72	1900		1.25
1888	 2.80	1901		1.05
1889	 2:79	1902		1.29
1890	 3.18	1903		1.19
1891	 2:78	1904		1.36
1892	 1.82			

The measures introduced in the year 1901 with the object of preventing the spread of consumption have been continued

The objectionable and dangerous practice of spitting in public places, and vehicles, has now become an offence punishable by fine, under the provisions of two local bye-laws.

Under the Tramways Act, 1870, a bye-law has been made and came into operation during the year 1903, prohibiting, under a penalty, spitting in or on any car, and on the 1st December, 1904, a bye-law came into force, made under the powers of Sec. 23 of the Municipal

Corporations Act, 1882, prohibiting spitting on the floor, side, or wall of any public carriage, or of any public hall, public waiting room or place of public entertainment, under a penalty not exceeding £5.

In March, 1903, the Sanitary Authority appointed a Woman Inspector, Miss A. Hoyle, whose duty it is to visit all cases of phthisis notified to the Medical Officer of Health, and to report to him on a printed form the circumstances connected with each case.

A system of voluntary notification of phthisis has been in operation in the Borough since the year 1901, medical practitioners being invited to notify cases coming under their care upon terms similar to those in the Infectious Disease Notification Act. On the whole this system has proved of service, those cases being notified in which the medical practitioner considers that the assistance of the Officers of the Sanitary Authority would be desirable. Each case is visited immediately after the receipt of the notification, and the visit is repeated when necessary. The consumptives and their families are instructed personally and by means of pamphlets in the precautions necessary for preventing the spread of infection, and at the request, or with the consent of the medical man attending the case, some of the patient's sputum is taken to the Public Health Laboratory for the purpose of diagnosis. The bacteriological examination in all notified cases of phthisis being performed free of charge. In such cases also much good is effected by an inquiry into the sanitary condition of the premises occupied by the consumptive, as defects are remedied without delay.

In the event of a death from phthisis being returned by the District Registrar, a post card is sent to the occupier of the house in which the death occurred offering disinfection of the premises and of the infected articles.

During the year 1904 205 notifications of phthisis were received by the Medical Officer of Health, of these 130 were males and 75 were females; 46 were inmates of the Union Infirmary, and 9 were in receipt of out-door relief, of the females 8 were patients of the same Infirmary and 4 were in receipt of out-door relief. One hundred and forty-six applications were made for the disinfection of premises and articles in cases of notified phthisis. This was effected by the Sanitary Authority free of charge.

Bacteriological examinations of sputum were made in these cases. Of these, 49 gave positive results shewing the presence of the tubercle bacillus, and 9 gave negative results.

The notified cases of phthisis were visited by the Woman Inspector, Miss Hoyle, and the result of her inquiries are given below.

Occupation of the patients as stated at the time of visit :-

		Mali	ES.		
No occupation				 5	59
Labourers	**			 1	19
Dock Labourer	8			 	7
Boilermakers				 	5
Clerks					4
Not stated					4
Scholars				 	4
Coal Trimmers				 	3
Hauliers				 	2
Ship's Cook				 	2
Police Constabl	es			 	2
Painters				 	2
Stone Carvers				 	1
Stone Masons				 	2
Baker				 	1
Scaffolder				 	1
Engine Driver				 	1
Plumber					1

Dairyman					 1
Manager at St	eel W	Vorks			 1
Coal Weigher					 1
Cabinet Maker					 1
Musician				**	 1
Billiard Market					 1
Soldier					 1
Barman					 1
Engineer's Stev	ward				 1
Groom					 1
		FEMALE	is.		
Housewives					 29
No occupation					 20
Not stated					 6
Domestic Serva	nts				 5
Scholars					 6
Anglican Sister	hood	(East Grins	stead)		 1
Trained Nurse					 1
Clerk					 1
Dressmakers					 2
Seamstress					 1
Charwoman					 2
Laundress				/	 1

In some cases it was possible to discover the probable source of infection. This will be seen in the following table:—

een in the following table :	
Ref. No. Diel from Phthisis. in Register.	Ref. No. Died from Phthisis.
3 Father and mother.	52—Mother and aunt.
4—Mother.	56—Father and sister.
1—Sisters.	53—Father and brother
10—Father.	57—Husband.
11—Mother and sisters.	65—Father and sister.
18—Wife.	79—Father and sisters.
22—Mother.	85-Father, mother, and brother.
22—Mother and sister.	95—Father and brother.
15—Mother and sister.	96—Mother and sister.
42—Father and mother.	99—Father and sister.
43—Mother.	100—Sisters.
46—Mother.	102—Mother and sisters
48—Mother.	104—Father and sisters.

TABLE XXI.

The following tables show the distribution of mortality from the chief zymotic diseases, from phthisis, from diseases of the respiratory organs, and from other causes, in each street in the Borough, during the year 1904:—

CENTRAL WARD.

NAME OF STRI	EET.		Small-pox.	Measles.	Scarlet Fever	Diphtheria,	Whooping Cough.	Fever.	Diarrhon	Pluthisis	Respiratory Diseases.	Other Causes	Total.
Blackweir and Terrace									1:		1	4	5
Bridge Street		2.5		2.	1.5	1		155	1	100	2	2	6
Bute Street and Terrace									2			1	4
lanal Street	**				**	**	1	1.1		1.	i	2	3
Charles Street										i	1	3	4
Colum Road							1		8	1	1	3	3
Corbett Road		-										2	2
Custom House Street										1		1	2
David Street												3	3
Dumfries Place					**			**			100	3	3
Cast Terrace									1	1		1	2
Edward Street			**			***		**	1	1	**	4 3	6
Cisteddfod Street			11			1			17	1	2	3	3
1 1 00	**				**			10		200	100	1	1
lough Street Iarris Court							1			**	1.	i	1
Invelock Street				1	11					1	1		3
layes				100								1	i
ligh Street						110						1	1
Iill's Terrace										2	1	2	5
Iomfray Street		4.4	0.5				122	2.5	2	1	19.00	4	5
ittle Frederick Street								4.4	1		1	5	6
ove Lane					2.2					10	1	1	2
Iary Ann Street	4.4			1	1.0	1.7				1	1	4	6
Iillicent Street			7.7		11			**	**	4	1 4	11	19
Vazareth House Vorth Road			**	1.			**	**	7.7	1		2	3
forth Road	* * .	**	* *	**	* *				1		2	2	5
embroke Terrace							1	-			1	1	1
eter's Court				1		1						1	2
lymouth Street					1					1	100		1
Queen Street					1000	1.1.					35-	2	2
laven Street											1	1	2
Richmond Terrace										3.0		1	1
lodney Street							1			**		1	1
luperra Street					44.		1			4.45	2	2	3
cott Street					5.5		1.0	13	-		3	3	
pring Gardens Court tation Terrace									1		4.4		1
t. Andrew's Crescent							11			i		i	2
t. John's Square								14	1	1	1		1
t. Mary Street								130		1.2	2	2	4
redegar Street												2	2 8
Inion Street									4.8	4	1	3	
Vestgate Street												1	1
Vindsor Place					100	200		1.5		125	***	1	1
Vomanby Street							+			1		3	3
Vood Street	3.5.5	* *		++				1.0	44	-	1.	2	-
				-	_	-	_				-	-	
Total				2		3	1		9	21	23	104	163

SOUTH WARD.

NAME OF STREET.		Small-pox.	Measles.	Searlet Fever.	Diphtheria,	Whooping Cough.	Fever.	Diarrhea.	Phthisis.	Respiratory Diseases.	Other Causes.	Total.
delaide Street and Place										1	5	1
lice Street										1	1	1 2
Illen's Arch											1	1
ingelina Street								1				1
Burt Street			3							1		4
Sute Crescent and Lane										2	1	3
Sute Street and Esplanade	2.1				1.00					3	10	13
anal											3	1 3
anal Parade									1	1	3	1 5
hristina Street							-			7	5	12
larence Place and Embankment								1			4	1
richton Street and Place									2	1		3
Oudley Street and Place									1		2	1 3
Bleanor Street											2	2
velyn Street								1	1		3	1
rances Street				1.0					1	1	3	1
leorge Street				1				1	1		2	1
lamadryad Hospital					1.1						3	1 :
larpur Street									1			1
Iarrowby Street										4		1
Ienry Street	4.5										1	1
Ierbert Street									1	2	3	1 6
lodges' Row										1.0	1	
Junter Street									2	1	2	1 :
ames Street					4.6				1.5	2	1	1 3
oudoun Square and Place									3		3	1 6
onisa Street						**		10.5	2	1.5	3	1
Hargaret Street					2.5				1	1	3	1
daria Street									1:	1.	4	4
Mount Stuart Square							**		1	2	1	4
Nelson Street		* *						1 ::			2	2
North Church Street		1.1	2		**	1.1		1			1	1 9
Old Sea Lock	* *		1.0							1	1	1
2 1 04 4							3.7			1	1	2
Peel Street									* :		3	3
Penarth Road and Terrace		* *						1	1	1:	2	4
Pomeroy Street									1	1	4	6
Porth Church Street			***						2	2	3	7
lough William Church		**					**	**			1	
14									1 1	2	2	4
- 00 Tet	* *	**				***			1	1	1	3
N1 1 Y20 -											1	1
Cresillian Torruso						1.50		.:		2.50	1	1
Our Root Dooks	**							1		4	100	1
Wast Church Street												1
Windsor Esplanade	11		::			1.	::		11	::	1	1
		,			-					-		
Total			3	1				7	23	36	96	166

CATHAYS WARD.

NAME OF STREET.		Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Fever.	Diarrhea.	Phthisis.	Respiratory Diseases.	Other Causes	Total.
Alexander Street					1			1				2
Allen's Bank Crescent and Road			1						1	1	2	5
Barracks		11				**	1	2.5	**	1	2	4
Bruce Street			**					4.4.	3	4	2 9	17
Lathara Tarman	**	**	1	**	i		**	100-	2	2	8	13
Catherine Street	**	4.40	**	* *							1	1
Coburn Street				11		1				1	8	9
Cranbrook Street											4	4
Crwys Road									2.5		9	9
Dwmdare Street									- 1	2		3
Dalton Street			4.00	13				1	1	12	1	3
Daniel Street						* *		1		2	4	7
Dogfield Street		55	1	2.5		**		20	**	2	6	9
Fair Oak Road								**	i		1	2
Fitzroy Street	* *	* *	**	**	11	**				2	3	6
Florantia Street	* *				i				11	-	2	2
Tallianan Church		**		17		***				1	1	1
Hadys Street	**	**		**		11			1	13.		1
Blynrhondda Street				11					1		4	5
Harriet Street				- 3.	4.4						7	7
Hirwain Street			1	1						1.00	2	4
Letty Street										3	2	5
Llanbleddian Gardens	* *	**								4.0	2	2
Llandough Street						1.0					1	1
Llantrisant Street			+.4					.:			5	5
Llantwit Street								1	**	127	- 3	1 4
Malefant Place and Street	4.4	**		1.7		1:				i	2	4
Manor Street	* *				1	1	**			i	ĩ	3
Marilan Diament	* *	**	1		1		**			1	i	3
Minister Street	1		1		**		**		1		2	3
Minny Street										4	4	8
Miskin Street				1.1		i				2	5	8
Monthermer Road										2	1	3
Mundy Place											3	3
Norman Street										1		1
Richard Street										100	6	6
Robert Street:						2			1:	1	4	7
Salisbury Road						1		2.3	1	1	4	7
Senghenydd Place and Road						1.0					2	3
Talygarn Street			1	100	1.7	1.5	2.2		ï		2 2	6
Tewkesbury Place and Street			2			- 1	**		i	2	5	8
Thesiger Street		**		i	100	1.3		**	i	1	1	6
Township Stores			2	1		1	**	**	1			1
Whitchurch Place and Road		***		11	11				1		3	4
Woodville Road					1			1	1	1	6	8
Wyeverne Road				i							6	7
Total			10	3	4	8	1	4	18	37	151	236

PARK WARD.

NAME OF	STREET.		Small-pox.	Measles.	Scarlet Fever.	Diphtheria,	Whooping Cough.	Fever.	Diarrhoa	Phthisis	Respiratory Diseases.	Other Causes	Total.
Alfred Street			1.5						3.5	2	2	3	7
Albany Road	**				110		1.7			1	1	3 4	5 5
Angus Street			::	111	1:	111		11	1::	1:	1	8	8
Arran Street						4.2		1.	1	1	1	4	7
Bangor Street		* *		1						1 ::	1	1	2
Bedford Street Boverton Street :				1	1:	1			1::	1	1	3	6
Byron Street					1					1	i	3	4
Cyfarthfa Street			**	1.5			1		1.5	11	4	5	10
Castle Road Convent, The				1	4.1				1	1	1.1	9	12
Crofts Street								**	1:	2	1	4	3
Crwys Road, Place,				1	4.4						1	6	8
Daviot Street												2	2
Diana Street					227		1			2 2	i	5	5 9
East Grove	11					13			11		1	1	1 9
Elm Street									111		1	5	5
Glenroy Street		**							11	1	12.	4	5
Gordon Road					2.5				11		1	2	2
Hendy Street Inverness Place						**			i		5	4	10
Keppoch Street				1	1				1	1	2	Î	6
Kingcraig Street											1		1
Lily Street Lochaber Street	**	**	**	**								1	1 3
Mackintosh Place									**		2	3 7	9
Milton Street							1				1	4	6
Montgomery Street										1		1	2
Morlais Street Moy Road			* *							2		2 7	4 7
Newport Road									11	1::	1	2	2
Northcote Street .										1		2	3
Oxford Street	**					68					1.1	3	3
Parade, The Pearson Street			(4.4)									1	1
Penlline Street					11						i	Î	2
Penylan												3	3
Penywain Road										1		1	2
Plasnewydd Road Richmond Road and	Connent								1		4	8	2 14
Rose Street	Crescone					11				2	1	1	3
Russell Street											1	1	2
Shakespeare Street				1							2	5	8
Southey Street St. Peter Street		**			**	100	935			**	1	1	1
Strathmairn Street			1.							1		5	5
Talworth Street	**	-					1			1.		3	4
Treharris Street	1.			2				1			2	4	9
Tynycoed Place Upper Kingcraig St	reet	**			***				1	**	i	ï	1 2
Violet Row	rees	**				4.4					1	1	1
Walk, The				7.						1		2	3
Wellfield Road												1	1
Werfa Street Woodland Place		***					**			1	**	1	2
Wordsworth Avenue									11	i			i
			1000			2000	1000		3.5				
Totals				8			5	1	6	26	38	156	240

ADAMSDOWN WARD.

					JOX.	.80	ever.	oria,	ing h.		OP.W.	is.	tory es.	uses.	-
	NAME OF	STREET	c.		Small-pox.	Measles.	Scarlet Fever.	Diphtheria	Whooping Cough.	Fever.	Diarrhoa.	Phthisis.	Respiratory Diseases.	Other Causes	Total.
Adam S											1	2	1	4	8
	lown Square													1	1
Ascog S						1							1	1	2
Augusta Bute Do						**					**		1 2	1	5 3
Buzzard			::									11	ī	2	3
	Street										2		3	1	6
Clyde S				:									1	3	4
Comet S					**						14	1:	1	1	2
	Street						i			***	1	1	1	4	7 2
	k Terrace					11	1		1::	1.	1	1	1	100	2
Cumrae	Street										1			1	2
Cycle S													1	1	2
Davis S			••										1	1 2	2 2
Dowlais Duffryn		**			**		11	11			11	111	1::	1	1
	sin and Do	ck						1::	1::			1::		3	3
Eclipse	Street									1	1			4	6
Ellen S	treet								1			2	3	2	8
Garth S												1	2	2	5 2
Godfrey Gold St							***					1::	1.	2	2
	oline Street									1:	1	1	1	i	ī
Howard	l Street												1	100	1
	rnock Stree	t								1:		1 ::		1	1
Infirma								1		1		1	4	74	81
Iron St Ivor St					::						1	1::		1	1
	roy Street						1	1	1::		1	1		2	3
	an Street													1	1
Kite St							1					1			2
	largaret Ter		**			**						**	i	1	1 2
Lead St	oss Street	::	**							1:		1::	î	1.	1
Metal S						1		1		1		1		1	1
	Street											1	1	1	2
	Place Street	and Ter	TACO								1	1	2	6	10
Moon S Morgan											i				1
New De							1.		1::	1:		100	1	i	î
Newpor													1	2	3
North 1	Luton Place								1		1 :			2	3
	William Str	eet						1	1		1			3 2	5 3
Orbit S	Street							1			1::	1::	1:	2	2
	Roads					1			1::			1		1	1
	lan Street										1		1	7	9
Piercefi	ield Place			125					1:					1	1 7
	Street								1				2	1	7
	Leopold Str Basin and D					11	1		1::			1::		8	8
	Street	OUR.				1	1::	1	1		1.	i	1		3
Sandon	Place and S											1	1	2	4
	har Street													1	1
	Terrace												2	4	6
	Luton Place Street		**								i	i	1	3	6
Taff Sti							1		1			i			1
Tyndall	Street								111	1	1	1	1	1	5
	a Street								1				1	3	5 2
West I													1	2 2	2
Windso	uton Place or Road					1	1		i			1::	1	2	3
Zine St														2	2
			-	-		-	-	-				1.		101	076
		Total				1	2	2	7	3	14	14	42	191	276

RIVERSIDE WARD.

NAME OF STR	EET.		Small-pox.	Measles.	Scarlet Fever.	Diphtheria,	Whooping Cough.	Fever.	Diarrhœa.	Phthisis.	Respiratory Diseases.	Other Causes	Total
Ann Street								1	1.	1	2		-
Beauchamp Street						1	100	1		li		2	
Blackstone Street							1		1	1	1		
Brook Street											1	2	
Brunel Street		**				1.	1.	1		1		1	
athedral Road								1	1		i	9	1
lare Gardens and Street					100		11			1::	1	3	1
oldstream Terrace					1	1				1		1	
owbridge Road							1.					7	
mddock Street				2			1			1	2	9	1
beburgh Street				1			1	1	1	1	1	2	1
espencer Gardens and S						1	1			1	100	3	
logo Street												1	
ldon Street								1	3	1::	3	4	11
itzhammon Embankme		- 1		11						1		2	1.
loucester Street		11		1		1		100	i	11	i	6	
reen Street	100				20	1						1	
Ialket Street								**		1	* *	9	
estyn Street				**	* *	1					100	-	1
ing's Road .		. 1	**				177		3	l'i	1	13	1
ewis Street		- 11					i		1		2	10	1
ower Cathedral Road								1.1				l i	
lachen Place		- 1		i	1	2.7	1.5	**	1.5	1	1.5		1
andeville Street					11		* *			i	830	4.4	
ansfield Street				**	* *		1000	**	**	1	i	35	
ark Street	**			i			1	**		1	2.	100	
lortimer Road										1 3 3 5		i	
eville Place and Street	**	11	* *			17	1		**	1	1	0	
orth Morgan Street			1.1			111	-1			1		i	
444	3.5	**		**		13			150	1	1000	i	
lantagenet Street		* *		1.1	4.4	4.9		4.4	17.0	i	**	2	1
lasturton Avenue and G	landone		7.7	**	**			i			1.	2	1 3
ontcanna Street and Ter				* *	100				i	1	13	4	1 3
1 701					**		-12			13	1.	1	1
P. Pri		4.4		4.4	**	***	**		1	11		100	1
	+ +				* *				1	**		1	1
yder Street			11	21	77	100	2.5			110	10	7	1 3
evern Road meaton Street	* *		9.0		+14					112	2	1	1
1.0			11	1.	10.	**			5.7	11		1	1
100 × 100 000 000 000 000 000 000 000 00		4.7		**	***			* *	1.	12	4	1	1 6
evenson Street outh Morgan Street		5.5			**	- 1	**			2.2	1	1	9
NA CONTRACTOR OF THE PARTY OF T	**			**	**					**		2	1 2
20 3 000	1.1	2.2				* *					i	2	3
evetlick Street	**				* *	17				**		1	l i
4		**					1	4 -	1.4	1.0	i	4	6
nion Workhouse	**	* * *	11	· o	**	**	1		4	48	30	151	242
ellington Street	* * *		* *	9	* *	111				100	90	10	11
7. 35 64	10.	5.5	100	1	35.			**	**	2		10	3
	Post	- i		6.9	**		4.4				4.4	1	10
yndham Crescent, Place Street	e, Road	and				1.5	3		1	2	3	11	20
Totals				15		1	8	2	19	60	62	281	448

CANTON WARD.

NAME OF	STREE	CT.		Small-pox.	Measles.	Scarlet Fever.	Diphtheria,	Whooping Cough.	Fever.	Diarrhea.	Phthisis.	Respiratory Diseases.	Other Causes	Total.
Albert Street					1							2	5	8
Aldsworth Road												2	4	6
Alexandra Road													3	3
Anglesea Street				**				***				1:	1	1
Atlas Place and Road												1	1	2
Bassett Street Beda Road	**	**		* *	**		***		**		i	1	2	1 3
Bloom Street				11		1::	1			1.		i		1
Brecon Street .					1		100			1	1.		6	8
Brunswick Street													2	2
Burlington Terrace													1	1
Cardigan Street										.:			1	1
Changer Land	**			**				i	**	1		2	**	3
Chancery Lane Clive Road				***								1	6	7
Coke Street	*:				111	1:		1:		i	111	1		1
Conway Road											3	2	3	8
Cowbridge Road										2	2	3	9	16
Conybeare Road												3	2	5
Cumberland Street												1	1	2
Daisy Street Denton Road						1.						1	9	10
Egerton Street	* *				**	**	**			***	**	2	2	4
Egham Street.											i			li
Eldon Street							1	1			2	1	2	6
Eiy Road													2	2
Ethel Street										4	1	3	4	12
Fern Street													1	1
Forrest Road								**				1	3	6
Glamorgan Street Glynne Street					1					2 2		1	6	9
Gray Street	::		- 11		1	1		11				2	5	7
Grosvenor Street										4.4			6	6
Harvey Street										1		1	3	5
Ivy Street				**	1.2								1	1
Kingsland Road											1:	1:	2	2 3
Lansdowne Road Leckwith Road and	Dlaga										1	1	1 3	6
Lincoln Street.			* *							2	i	1000	0	1
Lionel Road	::					1		1::				1	1	2
Llandaff Road						1		1	1		2	2	2	7
Llanfair Road							100				1	1	2	4
Loftus Street							1			1	1	2	4	9
Lyndhurst Street									**			i	2	2 2
Market Road Mortimer Road												1	1	2
Myrtle Street				11	**	1::	1::	1::		::		1.	1	1
Nesta Road					1::	1::	1	1	1	1		1	2	4
Norfolk Street					1							1.5	1	1
Nottingham Street												1	2	3
Park Terrace				**					**	1:	• •		1	1 2
Pembroke Road Pencisely Road										1		i	1000	li
Penhill Road	11		**	1		1	**	11		**	::		2	2
Penlline Road.												3		3
Penypeel Road					1	1		1		1			2	3
Pontcanna Place												1	1	2
Preswylfa Street													5	1 9
Radnor Road			-							2		2		1
Railway Terrace Rectory Road	* *	* *			**			**	**	**		1	3	3
Regina Terrace												1		1
Rolls Street				::	2	1:		::		1	2		1	5
Romilly Crescent and											1	2	5	8
Romilly Road West												1		1

CANTON WARD-Continued.

NAME OF	STREET.		Small-por.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Fever.	Diarrhon.	Phthisis.	Respiratory Diseases.	Other Causes.	Total.
evern Road											3	6	9
pringfield Place									1		2	5	8
t. John's Crescent					**						1	2	3
urrey Street											1		1
heobald Road	**	***			**		* *	1.1	* *	1		1	2
hurston Street	** **	**			**					1		3	1 3
intern Street urberville Place		**			**	i			i	**		1	3
urner Road			**					**		**	i	1 60	1
Vellington Street											i	3	4
Vestmoreland Stre						1					1	i	3
Villiam Street									× +:		1		1
ork Street				1			1						2
							-	-			0.5		200
Totals		**		6	**	4	3	* *	24	21	65	164	287
			1	ROAT	H W	ARD.							
meta Street										2			1 5
igate Street		**			4.5	**				_		6	6
rthur Street eresford Road						i	**		i	**	3	5	10
ertram Street		11		i						i	1	4	1
lanche Street				1.		**						i	
looker Street				1	1						100	i	
Bradley Street				1							1	2	1 3
Broadway							100		1	1	3	3	1 7
ecil Street									2	1	3	9	1:
laude Road				70000			100			1	1	7	1
lifton Street							100			1	1		1 5
Connaught Road										3		4	1 3
Cottrell Road									2		1	5	1 3
Crofts Street	**						1:				1	1 2	1
Byril Crescent							1		1	4.4		3	1
Diamond Street						**	1	***	1	1	2	6	
Elm Street Emerald Street							2			2		3	
Dank Okarak										-	35.0	1	
Fort Street Grouse Street		* *							1.5	1		1	
H 11 C+ +				1								2	1
				1::	111		1		1	i	1	3	
Helen Street										lî		3	
						2.00			1000	1 6	1000	7	10
Newport Road			1:	111	1:	i	i			1			
Newport Road		::				1	1			1		6	
Newport Road Nora Street Oakfield Street					1000	1 100	100			1		6 2	
Newport Road Nora Street Dakfield Street Partridge Road		::				1	1			3			2
Newport Road Nora Street Pakfield Street Partridge Road Pearl Street	::					1	1					2	2
Newport Road Nora Street Dakfield Street Partridge Road Pearl Street Penylan Road Princes Street						1	1 4		··· i	3	10	10 4	2
Newport Road Nora Street Dakfield Street Partridge Road Pearl Street Penylan Road Princes Street Richards Terrace						1	1 4 1		 i	3	10	10 4	2
Newport Road Nora Street Dakfield Street Partridge Road Pearl Street Penylan Road Princes Street Richards Terrace Rose Street						1	1 4		i	3	10 1	2 10 4 4	2
Newport Road Nora Street Dakfield Street Partridge Road Pearl Street Penylan Road Princes Street Richards Terrace Rose Street Ruby Street						1	1 4 1		i	3 1 .1	10 1	2 10 4 4 	2
Newport Road Nora Street Dakfield Street Partridge Road Pearl Street Penylan Road Princes Street Richards Terrace Rose Street Ruby Street Sapphire Street						1	1 4 1 1		i :: :: :: :: :: :: :: :: :: :: :: :: ::	3 1 1	10 1	2 10 4 4 3 3	2
Newport Road Nora Street Dakfield Street Partridge Road Pearl Street Penylan Road Princes Street Richards Terrace Rose Street Ruby Street Sapphire Street Spring Gardens Pl	ace and Terr					1	1 4 1 1		i i ::	3 1 1 	10 1 3	2 10 4 4 3 3 5	2
Newport Road Nora Street Dakfield Street Partridge Road Pearl Street Penylan Road Princes Street Richards Terrace Rose Street Ruby Street Sapphire Street Spring Gardens Pl Stacey Road	ace and Terr					1	1 4 1 1		i :: :: :: :: :: :: :: :: :: :: :: :: ::	3 1	10 1 3	2 10 4 4 3 3 5	26
Newport Road Nora Street Dakfield Street Partridge Road Pearl Street Penylan Road Princes Street Richards Terrace Rose Street Ruby Street Sapphire Street Spring Gardens Pl Stacey Road Theodora Street	ace and Terr	ace				1	1 1 1 1			3 1	10 1 3	2 10 4 4 3 3 5 3 5	2
Newport Road Nora Street Partridge Road Pearl Street Penylan Road Princes Street Richards Terrace Rose Street Ruby Street Supphire Street Supphire Street Supphire Street	ace and Terr	ance				1	1 1		1 1 1	3 1 1 2	10 1 3 1	2 10 4 4 3 3 5 3 5	2
Newport Road Nora Street Dakfield Street Partridge Road Pearl Street Penylan Road Princes Street Richards Terrace Rose Street Ruby Street Supphire Street Supphire Street	ace and Terr	ance				1	1 1 1 1			3 1	10 1 3	2 10 4 4 3 3 5 3 5	2

GRANGETOWN WARD.

						100				-		-	-
NAME OF STRE	ET.	7	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Fever.	Diarrhea.	Phthisis.	Respiratory Diseases.	Other Causes	Total.
			11-	200			12		1000		3/8	1	The same of
Allerton Street							1		14.4		4	4	9
Amherst Street							2.0			1	2	7	10
Andrews Terrace										1		1	2
Bishop Street					1					1			3
Blaenclydach Street	**	* *								1		1	3
Bradford Street	1.0										1	4	4
Bromsgrove Street			* *		* *		1.0		**		4	1	4
Cambridge Street Chester Place and Street				1		1			i		1 7 4 7	4 2	5
60 D 1				1		1				1	i	3	5
Clive Street					* * *		* *		3	2	4	22	31
Clydach Street	***	**	* *					**		100	1		1
Coedcae Street									i		1	1	3
Compton Street			**				1			11	1	3	3
Cornwall Street										1		3	3
Corporation Road											6.	5	11
Court Road				1						1.	1	2	4
Cymmer Street							4.4		1	1	4.00		2
Devon Place and Street						i			1		2	2	6
Dorset Street										2	2	5	9
Durham Street							1				1		2
Earl Street		4.1		1								2	3
Ferndale Street							4.0			1	1	3	5
Ferry Road					* *	2.7						3	3
Franklin Street											1		1
Hereford Street			100		**	1 -				.:	1	8	10
Hewell Street	11					* *	1.1	**		1	3	5 4	9
Holmesdale Street				1	+ +	++			2	1	2	4	7
Kent Street		* * *	**	2	1.1	**	2	**	1	**	2	3	9
Knole Street Llanmaes Street				3			1	*/*	ï		4	5	13
Lucknow Street				1		**	i			2		1	5
Ludlow Street												2	2
Madras Street								21	1			2	3
Maitland Place		4.0					1	2.	- 22				1
Monmouth Street											+ +	1	1
Newport Street											4.4	2	2
North Street							1.00	4.4			112	1	1
North Clive Street											1	2	3
Oakley Street	**	- 51		12.5			1.	4.9		1::	2	2	4
Paget Street				100			2		1	1	1 3	7	9
Penarth Road	17.		1.3	14	100		**	2.5	3	1 3	-	3	7
Penhevad Street Pentrebane Street	4.4			1			1			100	i	2	4
Redlaver Street	**		100	1		0.0			1	2	i		4
Rookwood Street		100	1 ***						1.			1	1
Rudry Street			1.	1.						1			1
Rutland Street					1		1 .			2	1	2	5
Saltmead Read				1		2000	19090		2	1		4	1 7
Sanatorium			1		17	10		2			1	2	33
Seven Oaks Street				1.4			4.1		1		1	1	3
Somer-et Street								1	2	100	1	3	6
St. Fagan's Street						100	10					1 5	5
Stockland Street											9	5	5
Stoughton Street									2	1	2	1	1
Taff Embankment		* *		1	100				*	**	i		11
Thomas Street						1	14				1	1	2
Tynant Street Warwick Street			**					1	i	1			1
Warwick Street Wedmore Road	**			0.4			100	1.	1	13.		5	6
York Place				27			1					1000	1
		-		1			-			-			
Totals			1	13	18	14	10	2	26	25	60	163	332

SPLOTT WARD.

NAME OF ST	REET.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria,	Whooping Cough.	Fever.	Diarrhea.	Phthisis.	Respiratory Diseases.	Other Causes	Total.
berdovey Strest		 								1	2	1 3
berystwith Street			100	1.					1	4	3	7
deline Street		 				1				1	4	6
eresford Road Crossing											2	2
ridgend Street		 								1	4	5
urnaby Street		 	1							3	3	6
erphilly Street											3	3
umeron Street		 									1	1
urlisle Street		 		1	1					2	9	13
ornelia Street		 							1		1	2
oveny Street		 						1			3	1 4
ast Tyndall Street		 								1		1
nid Street		 									1	1
yre Street		 									2	2
orence Street		 								1	1	2
vendoline Street											1	1
abershon Street		 								4	13	17
inton Street		 							11		1	1
oward Street		 						1				li
net Street		 						1	1	3	15	20
yard Street		 				1				2	4	7
anelly Street		 							2	1	10	13
arion Street		 								2	3	5
ilford Street		 								1	3	4
oorland Road		 						1	1	5	9	16
dell Street		 				1				2	8	11
engam Farm		 								1		1
ontypridd Street		 						1	1		9	111
ertmanmoor Road			1			1		1	1	4	9	17
ailway Street		 				1		3	1	3	15	23
inquahar Street										1	1	2
ymour Street						0.0		1		2	3	6
ngleton Street		 						1			1	2
lott Road		 				1			1	3	9	14
ransea Street		 					4.40			1	5	6
mby Street											3	3
arsis Copper Works		 									1	1
alker Road		 3.	1							1	1	3
imborne Street		 								2	4	6
		 										-
Total		 	2	1	1	6		11	9	52	167	249

CARDIFF SANATORIUM.

The following report of the Medical Superintendent shows that during the year 1904, 861 cases of infectious disease were under treatment, as compared with 1,157 in the year 1903.

REPORT FOR THE	Year	1904.		0 to 5 years,	5 to 15 years.	15 to 25 years.	25 to 35 years.	35 to 45 years.	45 to 55 years.	55 to 65 years.	65 to 75 years.	Toraca
Remaining in Hospital Dec., 1903—	on 31	st										
Scarlet Fever				15	82	4	2	***				10
Enteric Fever					4	4	4	2				1
Diphtheria				5	8	2	2					1
Te	otals			20	94	10	8	2				13
Admitted during the ye	ear 19	04-										
Scarlet Fever				148	299	34	8	1	2	44		45
Enteric Fever				6	10	11	3	1				-
Diphtheria	- 19			63	96	17	14	1	1	***	-:	15
Small-pox				2	1	1	3	3	1		1	
To	otals			219	406	63	28	6	4		1	71
Totals under treatme	nt in	1904		239	500	73	36	8	4		1	81
Of the above there were	e Disc	harged-	-									
(a) Recovered—				101	00#	20						
Scarlet Fever Enteric Fever				131	327	28 13	9	1	1			4
Diphtheria		**	4.4	9 57	12 88	15	16	3	1			1
Small-pox			• •	i	1	1	3	3	1		i	1
oman-pox												
To	otals			191	428	57	37	8	3		1	7:
/// Dist												
(b) Died — Scarlet Fever				11	4							
Enteric Fever		**				i	i			**	11	
Diphtheria				8	3							
Small-pox				1								
T	otals			20	7	1	1	**		32.5		
Remaining in Hospital	31st											
Dec., 1904— Scarlet Fever				21	50	10	1		1			
Enteric Fever					1	1	2				**	
Diphtheria				3	13	4						-
Small-pox												
				-	0.1	15	3		1			10
Т	otals			24	0.4	1.00						
Т	otals			24	64							

Mortality per cent. under treatment-

Scarlet Fever .. 2.5 Enteric Fever .. 4.4 Diphtheria .. 5.2 Small-pox .. 8.3

B. W. BROAD, M.B., Medical Superintendent.

SUMMARY OF WORK PERFORMED BY THE OFFICERS OF THE MEDICAL OFFICER OF HEALTH'S DEPARTMENT.

The following tables show the nature and extent of the administrative work of the department. The work is carried out by Mr. D. Vaughan, Chief Inspector of Nuisances, and his assistants, acting under the supervision of the Medical Officer of Health, and I have pleasure in reporting that the Inspectors have performed their difficult duties in a very satisfactory manner.

For the purposes of inspection, the Borough is divided into six districts, as follows:-

District	No.	1 comprising	· · ·	Canton Ward Riverside Ward	· · } W. Fisher, Cert. San. Inst.
"	No.	2 "	part of	Splott Ward Adamsdown Ward	·· } S. Jeffery, Cert. San. Inst.
,,	No.	3 ,,		Park Ward Cathays Ward	·· } F. Glover, Cert. San. Inst.
,,	No.	4 ,,	part of	Central Ward Cathays Ward South Ward	S. Evans, Cert. San. Inst.
,,	No.	5 "		South Ward Grangetown Ward	T. W. Warren, Cert. San. Inst.
"	No.	6 "	part of	Roath Ward Adamsdown Ward	··· } J. Strange, Cert. San. Inst.

HOUSE INSPECTION FOR THE YEAR 1904.

CENTRAL WARD.

NAME OF ST	REET.		Number of Houses Inspected.	Defective Drains.	Choked Drains.	Defective W.C.	Defective Traps.	Scullery Sinks connected direct with Drain.	Number of Water Closets	Inside Closets not ventilated.	Outside Water Closets not ventilated.	Outside Closets not sup- plied with Water.	Dampness of Premises.	Other Nuisances.
Canal Street			31	6	4		3		24		24	23		15
Mary Ann Street		5.5	50	2	2				46		45	35		12
Stanley Street			2						2		2	2		
Tredegar Street			2 47	1			1		46		45	24	***	15
Ruperra Street			16	1	1		20		16		16	13	**	3
Thomas' Court			3						3		3	3		0
Rodney Street			18			1	1		18		18	17		13
Millicent Street			61	1	1	4			57		49	31		14
Havelock Street			46	2			**	**	46	**			9	14
Love Lane			35	1	***	1	i				46	46	9	21
Peter's Court			2		4.4.		1		34	7.	34	7	2	2
French Cottages		1.	4		* * *				2		2			1
Love Lane Court		* * *	4					1.0	3		3			
Love Lane Court		* *	4	* -	4.40	11.3			4		4			

SOUTH WARD.

NAME OF STI	REET.	Number of Houses Inspected,	Defective Drains.	Choked Drains.	Defective W.C.	Defective Traps.	Scullery Sinks connected direct with Drain.	Number of Water Closets	Inside Closets not ventilated.	Outside Water Clorets not ventilated.	Outside Closets not sup- plied with Water.	Dampness of Premises.	Other Nuisances.
Eleanor Street		 23	2		3	1		23		23	19		2
Evelyn Street	***	 29	2	1				31		28	10		11
Peel Street		 38						38		38	24	9	
Maria Street		 46	5	1	8			49		46	23	18	19
Angelina Street		 41	7		4			41		41	38	8	8
Nelson Street		 22	2	1	2			23		22	21	3	4
Frances Street		 26	5		7			26		26	24	6	7
West Church Street		 15	4		5			15		15	11	8	

CATHAYS WARD.

NAME OF ST	REET.	Number of Houses Inspected.	Defective Drains.	Choked Drains.	Defective W.C.	Defective Traps.	Scullery Sinks connected direct with Drain.	Number of Water Closets.	Inside Closets not ventilated.	Outside Water Closets not ventilated.	Outside Closets not sup- plied with Water.	Dampness of Premises.	Other Nuisances.
Florentia Street		 66	1		3			66		66	66	11	19
Woodville Road		 35	1	1	4	1		35		35	27	4	
Norman Street		 16	1	1	3			16		16	16	2	3
Alexander Street		 23	3		2	1		23		23	21	2	3
Talygarn Street		 40	1	1	1			40		29	28	8	14
Daniel Street		 61	3	1	4			61		61	61	20	36
Robert Street		 70		1	8			70		70	68	8	19

PARK WARD.

NAME OF 8	TREET.		Number of Houses Inspected.	Defective Drains.	Choked Drains.	Defective W.C.	Defective Traps.	Scullery Sinks connected direct with Drain.	Number of Water Closets.	Inside Closets not ventilated.	Outside Water Closets not ventilated.	Outside Closets not sup- plied with Water.	Dampness of Premises,	Other Nuisances.
Russell Street	144		45						45		45	45	7	12
Milton Street		1.1	66	2	3	3	1		67		67	65	5	18
Tavistock Street			5						5		4	4		
Penlline Street		44	11						11		11	11	2	3
Bedford Place			11						11		11	11	1	1
Bedford Street			108	2	2	6			109		108	99	7	11
St. Peters Street			18						18		18	14	2	3

ADAMSDOWN WARD.

NAME OF STREET.		Number of Houses Inspected.	Defective Drains.	Choked Drains.	Defective W.C.	Defective Traps.	Scullery Sinks connected direct with Drain.	Number of Water Closets.	Inside Closets not ventilated.	Outside Water Closets not ventilated.	Outside Closets not sup- plied with Water.	Dampness of Premises.	Other Nuisances.
Buzzard Street		18	1	1				18		18	17	1	13
Davis Street		15	4.0					15		15	14	2	3
Kyte Street		5						5					4
Sandon Street		18			1	1		16		16	14		5
Windsor Road		34		1	1			36		34	27		16
Sandon Place		36	1	1	1			36		36	35	3	13
Pendoylan Street		32		1				33		33	30		19
Roland Street		29			2			29	36	29	26		12
North William Street	+ 4	34						34		34	34		19
Ellen Street		33	5	4				33		33	31		6
Rosemary Street		3						3		3	3		
Tyndall Street		43		3	7			55		50	35		19
Constellation Street		81		2	8	2		81		81	74		1
Clifton Street		28	1	1		1		30	1	23	20		6

RIVERSIDE WARD.

NAME OF STREET.	Number of Houses Inspected.	Defective Drains.	Choked Drains.	Defective W.C.	Defective Traps.	Scullery Sinks connected direct with Drain,	Number of Water Closets	Inside Closets not ventilated.	Outside Water Closets not ventilated.	Outside Closets not sup- plied with Water.	Dampness of Premises.	Other Nuisances.
Wyndham Street	 28	2			2		28		28	28	6	8
Heath Street	 11	4.4				2.0	11	1.1	11	10		
North Morgan Street	 19	3	3	3	3		19		19	19	**	
South Morgan Street .	 35	9		9	4		35		35	35	3	11
Wyndham Place	 16	3		4	4	3	16	2.	16	14	4	7
Blackstone Street	 17	3	1	4	2		17		17	17	5	7
Wells Street	 41	3 5		6	4		41		41	35	6	8

CANTON WARD.

NAME OF STREET.	Number of Houses Inspected.	Defective Drains.	Choked Drains.	Defective W.C.	Defective Traps.	Scullery Sinks connected direct with Drain.	Number of Water Closets	Inside Closets not ventilated.	Outside Water Closets not ventilated.	Outside Closets not sup- plied with Water.	Dampness of Premises.	Other Nuisances.
Pontcanna Street	23			3	1.0		23		23	23	4	4
William Street				**		4.4	7		7	7	3	3
Wells Street		6	1	4			37		37	36		4
Rolls Street	42	4	1	2			42	1.0	42	42		30
Chancery Lane		5		5			41		41	41		21
Lyndhurst Street	40		2	1		1	40		19	19		22
Leckwith Road	69	1	***	2	7	144	69		60	56	1	24
Ethel Street	103	1	4	13		1.3	103		103	101	1	80

ROATH WARD.

NAME OF STI	REET.		Number of Houses Inspected.	Defective Drains.	Choked Drains.	Defective W.C.	Defective Traps.	Scullery Sinks connected direct with Drain.	Number of Water Closets	Inside Closets not ventilated.	Outside Water Closets not ventilated.	Outside Closets not sup- plied with Water.	Dampness of Premises.	Other Nuisances.
Partridge Road			78	15		2	15	2	144	1	21	52	4	4
Cyril Crescent			12	1					26	1	3	6		1
Diamond Street			70	5		2	2		71		69	68	14	27
Clifton Street			76	7	3	5	2		84	1	65	52	3	19
Agate Street			18	2		2		1	18		18	16	5	9
Topaz Street		10	61	2		3	1	2	61		61	61		9
Nora Street			72			10	1		69		67	67	3	1
Helen Street			62		1	4	1		60		60	60		8
Ruby Street			57			3	1		57		57	57	2	2
Emerald Street			58			7	3		58		58	58	3	1

GRANGETOWN WARD.

NAME OF STE	REET.		Number of Houses Inspected.	Defective Drains.	Choked Drains.	Defective W.C.	Defective Traps.	Scullery Sinks connected direct with Drain.	Number of Water Closets.	Inside Closets not ventilated.	Outside Water Closets not ventilated.	Outside Closets not sup- plied with Water.	Dampness of Premises.	Other Nuisances.
Hereford Street		.:	58	2		12	1		56		56	56		3
Somerset Street			52			1	2		51		51	26	1	11
Compton Street			47	1		7		1.	47		47	47		19
Compton Street Penarth Road			44	3	1	2	2		46		43	40		**

SPLOTT WARD.

NAME OF STI	REET.		Number of Houses Inspected.	Defective Drains.	Choked Drains.	Defective W.C.	Defective Traps.	Scullery Sinks connected direct with Drain.	Number of Water Closets	Inside Closets not ventilated.	Outside Water Closets not ventilated.	Outside Closets not sup- plied with Water.	Dampness of Premises.	Other Nuisances.
Ordell Street			86	2	2	5			84		84	84	7	39
Walker Road			61	2		3			60	ON A	57	28	3	26
Menelaus Street			28	1	2	2			27		27		1	10
Layard Street			56	2		2	1		56		56		2	29
Cornelia Street			42		1	1			42		42		2	10
Elaine Street			12			1			12		12			1
Enid Street			28	3		2	1		28		28			15
Moorland Road			50	1			1		50			24		17
Swansea Street		, ,	26						26		26	1.3	***	6
Portmanmoor Road			59			1			57		57	27	4	32

Report to the Medical Offlicer of Health of Mr. D. Vaughan, Chief Inspector of Nuisances and Inspector of Canal Boats, 1904.

				,			
Nuisances :							2000
Nuisances inspected				**			3,159
Notices issued					**		2,753
Nuisances abated without legal proceedings	**		**	**			3,159
Animals kept so as to be a nuisance							88
Injurious and foul accumulations							280
Nuisances from smoke							12
Stagnant water in cellars, &c		**	**	**	1		1
Stagnant water around gullies					**		3
Defective drainage							716
Drains unstopped and cleansed							332
,, trapped and repaired	**		**				25
,, tested			**	**		**	530
" found defective	**		**	**	**		258
Foul and offensive w.c.'s cleansed			**			**	112
Defective apparatus to water-closets repaire	a					**	47
Water laid on to water closets		**		**	**		13
" " urinals		**	**	**	**	**	5
,, dwelling-houses	**	**	**	**	**		45
Insufficient ventilation		**		**			1
Insufficient heating to workroom			**				870
Dilapidated houses repaired Dirty houses and workshops cleansed and h	··	al.					167
Tourist was assessmentation			**		**		11
Percelation of water into cellar			**	**			4
	**	**					2
Want of hood over gas stove Stable used as dwelling					**		1
Defective beiler chimnen							1
Steement water on wester land	* *					**	1
Stagnant water on waste land				3.5		**	-
DISINFECTION :—							
Houses disinfected							1,151
Articles of bedding and clothing disinfected							14,493
" , destroyed		**					311
Offensive Trades :—							1.00=
Premises visited							1,087
SLAUGHTER HOUSES AND MARKETS :-	_						
Visits paid to slaughter houses							140
Markets							320
Butchers and provision shops inspected							5,333
Cowsheds, Milkshops and Dairies	-						17
Number of cowkeepers on register			**				652
Number of milksellers on register			**		**		002
				Total			669
				Total	**		
Number of cowkeepers registered during the							::
Number of milksellers registered during the	year		**				95
							95
Number of visits paid to cowsheds							235
" " " milkshops							1,251
Notices served	**					**	40

1,526

COWSHEDS, MILKSHOPS, AND DAIRIES.

Particulars of Inspectio	N.		COWSHEDS.	MILKSHOPS
Total number of inspections		 	 235	1,251
Found in good condition		 **	 230	1,216
Water closets, sinks, or drains defective		 4.7	 2	10
Yards badly paved and accumulation of rubbish	1	 	 3	25
Infectious disease amongst persons employed		 	 _	7

CANAL BOATS.

Number of boats on regis	ter			 	27
" inspections			35	 	67
" boats found in	n good	condition	1	 	41
" " found v	with de	efective ve	entilators	 	15
Water vessels defective				 	6
Certificates cancelled				 	4
Verbal notices served and	comp	olied with		 	26
Boats licensed				 	1
Defective roof				 	4
Defective register				 	1

MAGISTERIAL PROCEEDINGS.

					Number of Cases.	FINES.
					100	£ s. d.
Proceedings	under	Sale of Food and Drugs Act	4.4	 	12	24 10 0
,,	**	Seamens Bye Laws		 	4	187070
,,	99	Cowsheds and Milkshops Order		 		
**		Public Health Act, 1875		 	1	20 0 0
**	,,	Towns Police Clauses Act (Sec. 31)		 	94	12 10 0
			Total	 	111	£75 0 0

I have the honour to be, Gentlemen,

Your obedient Servant,

EDWARD WALFORD.

MEDICAL OFFICER OF HEALTH.

APPENDIX.

TABLE L-LOCAL GOVERNMENT BOARD TABLE.

VITAL STATISTICS OF WHOLE DISTRICT DURING 1904 AND PREVIOUS YEARS.

		Births	hs.	Tot	al Deaths E Dist	Total Deaths Registered in the District.	the	Total	Deaths	Deethe of	Nett Deaths at all	the at all
	Population estimated to			Under 1 Y	Under 1 Year of Age.	Atall	At all Ages.	Deaths in Public	of Non- residents	Residents registered in Public	Ages belonging the District.	Ages belonging to the District.
	Middle of each Year,	Number.	Rate.*	Number.	Rate per 1,000 Births registered.	Number.	Rate.*	Institutions in the District.	in Public Institutions in the District	Institutions beyond the District.	Number.	Rate.
1	04	м	4	5	9	7	00	6	10	11	12	13
	139,519	5,100	36.5	799	141	2,415	17.3	263	:	-	2.415	17.3
	142,958	5,321	37.1	951	179	2,810	19.9	312			2.810	19.9
	146,479	5,591	38-1	923	165	2,826	19.2	364	- 00		2,795	19-0
	150,087	5,279	35-1	2967	121	2,568	17.1	303	100		2.534	16.8
-	153,753	5,520	35.9	870	158	2,684	17.4	312	57		2,627	17.0
	157,414	5,309	33.7	976	184	2,951	18.7	321	93		2,858	18:1
	161,452	5,198	35.2	730	141	2,745	17.0	314	7.8		2,667	16.5
	165,308	5,206	314	775	148	2,671	161	353	7.5	57	2,653	16.0
	168,909	5,278	31.2	694	145	2,909	17.2	486	88	11	2,865	6-91
	172,598	5,250	30-4	645	122	2,503	14.5	487	96	83	2,496	14-4
Averages for years 1894-1903	155,847	5,305	31-0	815	153	2,711	17.3	354	:	:	2,675	17.1
	176,313	5,208	29.0	751	144	2,704	15-3	458	96	87	2,695	15.2

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

TABLE II.—LOCAL GOVERNMENT BOARD TABLE.

VITAL STATISTICS OF SEPARATE LOCALITIES IN 1904 AND PREVIOUS YEARS.

CENTRAL CARDIFF. Registration Sub-District.	Population esti- mated to middle of each year. Births registered. Deaths at all ages.	:	:	:	54,184 1,528 909 250 50,051	54,217 1,610 924 279 51,921	54,300 1,617 1,009 308 53,861	54,358 1,510 967 229 55,874	54,402 1,572 912 255 57,962	54,541 1,624 1,010 230 60,476	54,299 1,561 853 206 61,339		54,402 1,575 884 218 57,433
EAST CARDIFF. Registration Sub-District.	Population esti- mated to middle of each year. Births registered. Deaths at all Ages.	:	:	: :	45,282 1,736 643 240	47,124 1,821 714 288	49,040 1,750 753 307	51,035 1,658 755 214	53,111 1,667 668 226	56,613 1,694 733 211	57,013 1,643 633 194	:	52,585 1,626 719 224
COUNTY BOROUGH OF CARDIFF. (Whole District.)	cach year. Births registered. Deaths at all Ages. Deaths under I year	519 5,100 2,415 722	,958 5,321 2,840 951	419 5,591 2,795 923	5,279 2,534 796	5,520 2,627 870	5,309 2,858 976	5,198 2,667 730	5,206 2,653 775	5,278 2,865 769	5,250 2,496 645	850 5,305 2.675 815	5,208 2,695 751
NAMES OF COURTOCALITIES.	Population esti- Topulation to middle of	1894 139,519	1895 142,958	1896 146,479	1897 150,087	1898 153,783	1899 . 157,414	1900 161,452	1901 165,308	1902 168,909	1903 172,598	Averages of Years 1894 to 1903.	1904 176,313

LOCAL GOVERNMENT BOARD TABLE.

TABLE III.

CASES OF INFECTIOUS DISEASE NOTIFIED DURING THE YEAR 1904.

		CAS	ASES NOTIFIED IN WHOLE DISTRICT	ED IN WHO	OLE DISTRI	cr.		TOTAL C	TOTAL CASES NOTIFIED IN EACH LOCALITY.	FIED IN	No. of (No. of Cases Removed to Hospital from rach Locality	VED TO LOCALITY
NOTIFIABLE DISEASE.	At all			At AgesYears	-Years.								West
	Ages.	Under 1.	1 to 5.	5 to 15	15 to 25.	25 to 65.	65 and upwards.			1.0	Regis. Sub-Dist.	Regis. Sub-Dist.	Regis. Sab-Dist.
Small-pox	11	1	1	-	1	9	1	01	:	6	03		6
Cholera	:	:	:		:	:	:	:	:	:	:	:	:
Diphtheria	389	1-	=======================================	187	41	42	:	115	142	132	53	93	47
Membranous Group	11	-	=	2	٥	:	:	01	65	12	:	-	2
Erysipelas	113	1	00	1-	1-	87	-	35	23.33	47	1		:
Scarlet Fever	658	10	813	378	22	15	:	182	247	655	140	17.2	165
Typhus Fever		0	:			:	:	:	:	:	:		
Enteric Fever	40	:	00	=	12	13	-	6	18	13	1	10	9
Relapsing Fever	:	31		10	0	:		:	:	1	:	:	
Continued Fever	c1	1	:	-	-	:	:	1	:	-	:	-	:
Puerperal Fever	12	:	:		63	6	:	9	01	9	:	:	:
Plague	:	:	:	:	:	:	:	:		-	:	5.	:
Totals	1,241	20	348	590	102	172	6	348	445	448	202	276	228

LOCAL GOVERNMENT BOARD TABLE.

TABLE IV.

CAUSES OF, AND AGES AT, DEATH DURING YEAR 1904.

	D	EATHS IN		BJOINED .	O WHOLE	District	r ar		in or bel- ties (at a	onging to Il Ages).	is in
CAUSES OF DEATH.	All Ages.	Under 1 year.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and up- wards.	East Cardiff Reg. Subdis.	Central Cardiff Reg. Subdis	West Cardiff Reg. Subdis.	Total Deaths in Public Institutions
Small-pox	1	1								1	
Measles	64	22	39	3				14	16	34	
Scarlet Fever	25		16	8	1			1	6	18	1
Whooping-cough	61	31	26	3	1			24	16	21	
Diphtheria and Membranous											
Croup	31	5	22	4				3	9	19	1
Croup	2	1	1							2	
Typhus											
Fever Enteric	9		1	1	3	4		1	4	4	
Other continued											
Epidemic Influenza	13		2			5	6	5	6	2	
Diarrhœa	129	105	15	2		5	2	26	34	69	(
Enteritis	35	25	2	1		4	3	20	10	5	
Puerperal Fever	3				1	2		1	1	1	
Erysipelas	3			1		1	1		2	1	
Other Septic Diseases	9	6		1		2		3	3	3	5
Phthisis	246	4	4	10	43	183	2	59	79	108	57
Other Tubercular Diseases	98	34	21	19	8	15	1	30	25	43	10
Cancer, Malignant Disease	109	1			4	84	20	26	38	45	40
Bronchitis	181	44	16	3	2	56	60	57	55	69	15
Pneumonia	238	74	58	15	13	62	16	60	70	108	14
Pleurisy	16	**	1	1	1	10	3	2	9	5	2
Other Diseases of Respira-									-		-
tory Organs	14	1	4	1	2	5	1	6	5	3	7 2
Alcoholism	15					14	1	2	8	5	2
Cirrhosis of Liver							1		0	0	
Venereal Diseases	11	5			1	5		26	2	8 32	5
Premature Birth	78	78		**	1.1			20	20	02	
Diseases and Accidents of	10				9	9		2	6	4	
Parturition	12	10			3		99	83	93	127	37
Heart Diseases	303	16	9	8 9	16	160	14	12	54	18	45
2.1.2	84	10	9	9	2	5	1	1	6	1	2
U	8	4.40		***	1	1		1	1		
Homicide	2		4.4	**		2	**	1			
	2					-			**	1	
Weather Agencies, Sunstroke General Paralysis	200		**	**	1	26	4	10	13	8	
Other forms of Insenity	31					18	3	4	14	3	
Other forms of Insanity All Other Causes	21	000	39	27	16	239	231	238	279	323	163
All Other Causes	840	288	39	21	10	200	201	200	210	020	100
All Causes	2,695	751	280	117	130	949	468	719	884	1,092	458

74

DEATH-RATE per 1,000.		Seven Cl Symotic Dis	1.9	6-1	1.7	1.3	1-2	1.4	1.3	2.8	2.5	1.0	1-0	9-0	
DEAT	-89	All Caus	184	15-2	17.8	14.7	13-9	11:7	10-5	167	15.3	11.3	12.6	18-4	
	ob 0-01	Days on whi	56	24	19	12	500	6	19	11	13	18	15	25	
RAINFALL.		O stell Greatest	1146	10th	7th	29th	24th	14th	25th	22nd	14th	16th	6th	5th	
RAIN		destest of \$2 ni	68	87.	-65	-35	-53	.58	1.59	69-	02.	28.	08.	19.	
		anomy.	2.60	5 81	2 97	2.44	3.05	1.29	4-13	3.56	3.49	2.48	3.50	3-40	
	.viibim	Belative Hu	88	00	650	7.4	18	92	80	88	80	88	6	88	
HYGROMETER		Wet Bu	39-1	30-6	38-4	45.6	49.3	53.8	60-1	58.8	53.3	48.8	40-1	39-7	
HYGI		Dry Bu Mean.	40 4	32.4	9.01	49-4	52.7	8.19	63.3	6-09	2.99	2.09	41-1	41-1	
	th.	4 feet.	47-1	46.4	42.2	48.1	51.7	2.22	58.0	59-4	57.7	56-1	530	48.4	7
	Earth.	l foot mean	41.2	40-2	41.8	48.0	53.5	28 2	63-0	2-19	58.0	54.4	48.6	44-2	
SHADE		o anela dinola	38.5	39-0	40.3	8.24	51.4	2.70	63.0	60-1	920	20.2	42.0	8-04	
TURE IN		o assM nainild	34.5	33.7	33.7	41.5	43.9	48.4	54.9	49.7	1.91	44.4	34.6	35.7	
TEMPERATU		o assM numixaM	42.6	44-4	47-0	54-2	0-69	0-99	71-1	9-02	63.3	0.12	49.5	45-9	
F	'u	numiniK	24.0	23.5	25 0	31.0	34.8	40-0	44.5	41.5	38.5	33.0	18.0	25.0	
	*0	numixaM	53.0	52.5	28.0	62.2	0 02	72.9	82.1	80-1	1-69	62.6	57.5	2-99	
	ometer	Inches. Bar	29-900	29-900	29-968	29-922	29,870	30,001	29-993	066-65	31-008	30-051	30-041	29-911	
cter.	шошла	Attached Th	100	26	28	28	59	63	89	19	62	69	28	99	
			-		-	-	:	-	-	-	-		7		
	D		:	:	:	:	:	:	:	:	:	:	:	:	
	DENON		January	February	March	April	May .	June	July	August	September	October	November	December	

METEOROLOGICAL OBSERVATIONS FOR THE YEAR 1904.

Mean temperature of each month in the year, during the ten years 1895-1904.

	Mon	TH.		1895	1896	1897	1898	1899	1900	1901	1902	1903	1904
January			 	35°5	41°6	35°9	44°0	42°2	36°5	37°9	36°5	40°5	38°5
February			 	29°3	40°8	43°5	41°3	41°3	39°8	37°8	36°1	45°1	39°0
March			 	41°6	45°9	44°6	41°1	42°1	38°3	40°6	43°8	45°9	40°3
April			 	47°9	48°0	46°3	46°6	47°2	46°6	46°9	42°7	44°5	47°8
May			 	54°4	52°9	49°1	49°9	52°0	50°4	53°5	48°8	58°0	51°4
June			 	58°5	61°4	59°5	55°9	59°8	55°3	57°3	56°8	54°9	57°2
July			 	60°0	61°4	62°7	60°6	63°8	63°9	64°2	58°8	56°9	63°0
August			 	59°0	58°6	60°9	61°5	68°3	59°8	60°0	58°7	58°1	60°1
September			 	59°7	56°8	54°4	58°8	57°8	55°5	57°7	55°2	55°8	55°0
October			 	46°7	46°2	51°2	52°7	48°9	49°1	49°7	50°1	52°1	50°7
November			 	47°2	39°9	46°1	45°7	47°0	44°5	41°5	43°3	50°4	42°0
December			 	40°0	40°0	42°5	46°7	37°3	43°5	40°9	40°2	39°0	40°8

The following table illustrates the daily direction of wind throughout the year 1904.

Direct	tion of	Wind.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year 1904
N			 			1						**		1	2
N.E			 5	1	21	2	3	10	9	5	12	10	9	9	96
N.W.	55		 7	1		4	3	1	1	1	1	- 5	9	5	38
S			 			2			1		1				4
S.E			 1	12	1		8	6	13	9	9	4		2	65
S.W			 15	15	8	18	12	8	5	13	6	7	12	11	130
E			 		1		2				1	4		1	9
W	7.		 3			3	3	5	2	3		1		2	22

TABLE SHOWING RAINFALL AT CARDIFF IN EACH MONTH, DURING THE TWENTY-NINE YEARS, 1876-1904.

Hainfell in Days on Gravitat fall Days on Days on Gravitat fall Days on Gravitat			JANUARY	ARY.			PEBRUARY	UARY.			MARCH	ICH.	
7-91 12 0-68 2nd 5-79 22 0-90 14th 2-66 22 0-54 7-71 27 27 27 22 0-42 11th 2-66 22 0-55 7-75 17 27 27 16 0-87 27th 17th 2-66 27 28 0-87 27th 17th 2-66 28 0-87 27th 17th 1-14	YEAB.	Rainfall in Month. Inches.	Days on which 0.01 or more rain fell	Greatest fall in 24 hours.		Rainfall in Month. Inches.	Days on which 0.01 or more rain fell.	Greatest fall in 24 bours.	90	Rainfall in Month. Inches.	Days on which 0.01 or more rain fell		Date of Greatest fall.
5.77 2.74 2.75 2.74 2.75 2.74 2.75 2.75 2.74 2.75 <td< td=""><td>976</td><td>4</td><td>10</td><td>00.00</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	976	4	10	00.00									
1.73 1.74 2.75 2.79 2.70 0.55 2.74 1.90 0.55 <th< td=""><td>010</td><td></td><td>270</td><td>0.08</td><td>2nd</td><td></td><td>67</td><td>06.0</td><td>14th</td><td></td><td>55</td><td></td><td></td></th<>	010		270	0.08	2nd		67	06.0	14th		55		
5-73 17 0.36 17th 0.87 27th 1.25 1.8 0.40 6-87 11 0.42 13th 3.07 16 0.87 27th 1.14 1.4 0.40 6-87 11 0.42 13th 4.81 1.5 1.6 1.14 1.4 0.40 3-19 12 0.75 2nd 4.81 1.5 1.6 0.40 0.60 3-19 12 0.75 2nd 4.81 1.6 0.75 1.70 1.70 1.70 0.60 0.60 1.70 0.70	110		172		13rd		20	0.45	11th		21		67
5-95 10 1-30 14st 5-95 23 0-86 20th 1-14 1-14 0-32 6-97 11 0-42 13th 4-88 22 1-66 18th 1-19 1-14 0-75 6-97 12 0-82 2nd 2-56 15 1-16 18th 1-90 12 0-75 6-75 25 1-11 24th 2-56 15 1-16 1-14 1-17 0-68 0-68 100 0-75 12 0-68 100 0-75 100 0-75 100 0-75 1-75 100 0-75 100 0-75 100 0-75 100 0-75 100 0-75 100 0-75 100 0-75 100 0-75 100 0-75 100 0-75 100 0-75 100 0-75 100 0-75 110 0-75 110 0-75 110 0-75 110 0-75 110 0-75 110 <td>878</td> <td>*</td> <td>17</td> <td></td> <td>27th</td> <td>8</td> <td>16</td> <td>0.87</td> <td>27th</td> <td></td> <td>8</td> <td></td> <td>0</td>	878	*	17		27th	8	16	0.87	27th		8		0
0.87 11 0.42 13th 3.88 22 1.06 18th 1.90 12 0.68 1.00 0.23 20th 4.81 1.06 1.12 1.9th 3.88 1.00 0.00 1.00 0.00 1.00 0.00	879	-	10		lst		53	98.0	90th		14		9 6
6.92 12 0.23 2.66h 4.81 15 1.10 1.90 1.27 0.75 1.27 0.92 1.27 0.60 2.84h 2.86 1.9 0.63 0.75 1.27 0.63 1.27 0.63 0.75 0.75 1.27 0.63 0.75 0.64 1.27 0.63 0.75 0.75 0.64 0.75 1.00 0.75 0.75 0.65 1.00 0.75 0.75 0.65 1.00 0.75 0.75 0.65 1.00 0.75 0.75 0.65 0.75 1.00 0.75 0.75 1.00 0.75 1.00 0.75 0.75 1.00 0.75 0.75 1.00 0.75 1.00 0.75 0.75 1.00 0.75 1.00 0.75 1.00 0.75 1.00 0.75 1.00 0.75 1.10 0.75 1.10 0.75 1.10 0.75 1.10 0.75 1.10 0.75 1.10 0.75 1.10 0.75 1.	088		=		13th		00		1041.		10		4,
3.19 1.2 2.0 1.1 <td>881</td> <td></td> <td>10</td> <td></td> <td>OOAL.</td> <td></td> <td>77.</td> <td>00.1</td> <td>1000</td> <td></td> <td>12</td> <td>01.0</td> <td>-</td>	881		10		OOAL.		77.	00.1	1000		12	01.0	-
5.19 15 0.82 2.56 15 0.60 28th 2.56 10 0.93 0.93 10 0.93 0.93 0.93 0.93 0.93 0.93 0.93 0.93	000		77		20th		GI.	1.12	9th		16	89.0	
6-75 25 1-11 24th 3-73 20 0-65 10th 0-60 10th 0-12 1-27 0-12 1-27 0-12 1-27 0-12 1-27 0-12 1-27 0-12 0-1	200		13		2nd		15	09.0	28th	-	19	0.35	
6-03 21 0-99 31st 4-40 22 1-35 17th 3:39 16 1-27 5-03 23 0-58 9th 3:65 22 0-67 28th 1-87 16 0-63 5-76 15 0-73 3th 1-65 22 0-67 28th 1-87 16 0-63 1-76 12 0-73 3th 1-85 10 0-63 1-10 1-16 0-63 1-58 10 0-58 9th 2-00 16 0-64 10th 3:89 16 0-73 5-21 24 0-68 9th 2-00 16 0-64 10th 1-16 0-64 10th 1-16 0-73 14 0-73 14 0-73 14 0-73 14 0-73 14 0-73 14 0-73 14 0-73 14 0-73 14 0-73 14 0-73 14 0-73 14 0-73	883		22		· 24th		30	0.65	10th	-	10	0.19	-
3.71 20 0.58 9th 3.65 22 0.67 28th 1.87 16 0.53 2.76 15 0.73 7th 1.45 6 0.73 3rd 4.62 1.87 16 0.53 1.58 1.0 0.49 1.44 1.07 9 1.09 2nd 4.62 15 0.76 1.58 1.0 0.58 9th 2.00 16 0.64 10th 3.21 10 1.16 0.76 1.58 1.0 0.58 9th 2.00 16 0.64 10th 1.75 15 0.76 1.16 0.76 1.16 0.76 1.16 0.76 1.16 0.76 1.16 0.76 1.16 0.76 1.16 0.76 1.16 0.76 1.16 0.76 1.17 1.17 1.17 1.17 1.17 1.17 1.17 1.16 0.78 2.24 0.78 2.24 0.78 1.14 0.78 1.	884		21	180	31st	-	66		17th		16	1.07	•
5-03 23 0-91 30th 1:32 11 0-62 28th 3:97 13 0-68 1-70 12 0-73 7th 1:45 6 0-73 3rd 3:21 10 0-68 1-70 12 0-49 1st 1:07 9 1:09 2nd 4:62 15 0-76 1-78 10 0-58 9th 2:00 16 0-64 10th 3:89 16 0-76 2-10 15 0-70 16th 2:00 16 0-64 1-76 16 0-38 2-10 15 0-70 16th 2:38 19 0-68 20th 1-76 16 0-38 2-38 19 0-70 1-70 1-70 1-76 1-76 1-76 1-76 1-76 1-76 1-76 1-76 1-76 1-76 1-76 1-76 1-76 1-76 1-76 1-76 1-76 1-76 1-76	885		20	0.58	9th		66		98th		10		0
2.76 15 0.73 7th 1.45 6 0.73 3.21 10 1.16 1.76 12 0.49 1st 1.65 0.64 10th 3.21 10 1.16 1.76 12 0.49 1st 1.07 2st 0.75 1.00 0.64 1.16 0.76	988	5.03	23		30th	- 4	1 =		9041		10		N
1.70 12 0.49 184 1.07 9 1.09 2nd 4.21 1.0 1.16 0.76 1.00 2nd 4.21 1.0 1.16 0.76 1.00 0.76 1.00 0.76 1.00 0.76 1.00 0.76 1.00 0.76 1.00 0.76 1.00 0.76 1.00 0.76 1.00 0.76 1.00 0.76 1.00 0.76 1.00 0.78 1.74 1.76 1.76 0.28 1.00 0.78 1.74 1.76 0.78 1.74 1.76 0.78 1.74 1.77 1.10 0.78 1.74 1.76 0.78 1.74 1.77 1.76 0.78 1.74 1.76 0.78 1.74 1.77 1.74 1.74 0.78 1.74 1.74 0.78 1.74 0.78 1.74 0.78 1.74 0.78 1.74 0.78 1.74 0.74 0.78 1.74 0.78 1.74 0.78 1.74 0.74	887	2.76	15		761		11	20.00	2010		13	89.0	ล
1.58 1.6 0.58 9th 2.00 16 1.09 2.04 1.70 1.7	888		10	- 10	104		00		pue o	17.0	01	1.16	-
5.21 24 0.65 7 0.64 10th 3.89 16 1.17 </td <td>880</td> <td>1.30</td> <td>27</td> <td></td> <td>181</td> <td>70.1</td> <td>5</td> <td>60.1</td> <td>2nd</td> <td>4.62</td> <td>15</td> <td>94.0</td> <td>63</td>	880	1.30	27		181	70.1	5	60.1	2nd	4.62	15	94.0	63
2.71 2.4 0.61 2.6th 0.55 7 0.22 19th 1.52 14 0.28 2.10 1.5 0.70 16th 2.38 19 0.68 20th 1.76 16 0.31 6 0.48 2.38 1.9 0.70 16th 2.38 19 0.58 20th 1.76 16 0.48 2.38 1.9 0.70 12th 6.04 22 0.95 25th 0.31 6 0.48 3.88 20 0.71 4 0.08 24th 3.92 21 0.78 0.64 6 0.40 24th 1.39 9 0.80 13th 4.47 24 0.78 0.64 6 0.40 24th 1.73 9 0.85 24th 4.47 24 0.54 1.96 10 0.48 10th 1.71 17 0.70 4th 1.12 9 0.73 4th	000	00 1	200	6	9th	5.00	91		10th		16	1.17	
2.10 1.26 23rd 0.05 2 0.03 2nd 1.76 16 0.31 2.10 1.5 0.70 16th 2.38 19 0.58 20th 1.76 16 0.48 2.38 1.9 0.78 1.74 2.2 0.95 25th 0.31 6 0.44 3.20 2.3 0.44 12th 6.04 2.2 0.95 25th 0.31 6 0.48 3.20 2.3 0.74 19th 0.17 4 0.08 24th 3.37 13 0.85 3.86 2.0 0.77 4 0.08 24th 3.92 21 0.85 3.78 1.7 0.50 31st 5.73 21 0.70 4th 6.29 19 0.90 1.96 1.0 0.48 1.71 1.71 1.71 1.71 1.71 1.71 1.71 1.71 1.72 4th 1.39 0.93	000	17.0	77		26th	0.22	-1		19th	1.52	14	0.58	6
2.10 15 0.70 16th 2.38 19 0.58 20th 1.18 6 0.48 2.38 19 0.58 20th 1.18 6 0.48 2.38 19 0.54 12th 6.04 22 0.95 25th 0.31 6 0.48 3.88 20 0.71 19th 0.17 4 0.08 24th 3.37 13 0.82 3.88 20 0.71 19th 0.17 4 0.08 24th 3.39 21 0.79 4th 4.47 24 0.58 3.78 17 0.50 31st 5.73 21 0.70 4th 4.47 24 0.54 5.50 20 31st 5.73 21 0.70 4th 1.12 0.53 5.81 23 1.26 26th 1.71 17 0.22 18th 1.06 0.53 5.81 24 0.72	168	3.28	13		23rd	0.02	67		2nd	1.76	16	0.31	-
2.38 19 0.94 12th 6.04 22 0.95 25th 0.31 6.04 3.20 23 0.44 19th 3.68 20 0.78 17th 3.37 13 0.85 3.28 20 0.71 19th 0.17 4 0.08 24th 3.92 21 0.85 3.78 17 0.50 31st 5.73 21 0.70 4th 4.47 24 0.85 1.96 10 0.40 24th 1.71 17 0.22 19 0.95 19 0.95 1.96 10 0.48 10th 1.71 17 0.22 18th 1.12 9 0.53 5.50 20 1.20 20 1.31 0.79 4th 1.39 6 0.88 5.81 24 0.70 25th 20 0.90 1.8th 1.06 0.53 5.81 24 0.70 25th	892		15		16th		19	0.58	20th	1.18	9	0.48	-
3.20 23 0.44 19th 3.68 20 0.78 17th 3:37 13 0.82 3.88 20 0.71 19th 0.17 4 0.08 24th 3:37 13 0.82 0.64 6 0.40 24th 1.39 9 0.85 13 0.85 1.96 10 0.48 10th 1.71 1.71 0.70 4th 6:29 19 0.85 1.96 10 0.48 10th 1.71 1.71 0.70 4th 6:29 19 0.85 5.50 20 1.03 20th 1.71 1.71 0.72 18th 1.12 9 0.53 5.81 23 1.26 6th 6.40 20 0.79 4th 1.96 6 0.83 5.81 24th 2.10 1.2 2.10 1.2 0.54 2.54 0.54 0.54 5.81 5.81 5.81	883	2.38	19		12th		22		25th		8	0.14	
3.88 20 0.71 19th 0.17 4 0.08 24th 3.92 21 0.85 0.64 6 0.40 24th 1.39 9 0.85 24th 24th 0.54 1.96 10 0.50 31st 5.73 21 0.70 4th 4.47 24 0.54 1.96 10 0.48 10th 1.71 17 0.70 4th 4th 4th 0.53 5.50 20 1.03 20th 3.89 13 0.79 4th 1.13 9 0.53 5.81 23 1.26 6th 6.40 20 0.99 18th 1.06 6 0.33 2.48 1.7 0.59 26th 2.10 12 0.31 2.48 1.7 2.10 1.25 9 0.40 2.20d 0.54 2.50 24th 2.50 2.50 2.50 0.54 0.54	894	3.50	233	0.44	19th		06		17th		130		•
0.64 6 0.40 24th 1.39 9 0.80 13th 4.47 24 0.54 3.78 17 0.50 31st 5.73 21 0.70 4th 6.29 19 0.54 1.96 10 0.48 10th 1.71 17 0.70 4th 6.29 19 0.53 5.50 20 1.03 20th 1.71 17 0.79 4th 1.13 0.53 5.81 23 1.26 6th 6.40 20 0.79 18th 1.06 6 0.88 2.48 1.7 0.59 18th 1.06 6 0.33 2.48 1.7 0.59 26th 2.10 12 0.31 2.48 1.7 2.10 1.2 0.40 2.20d 0.40 2.56 2.60 1.8 2.4 2.5 0.40 2.5 0.54 2.60 2.5 4th 2.10	895	3.88	20		19th		4	0.08	94th		16		
3.78 17 0.50 31st 5.73 21 0.70 4th 6.29 19 0.90 1.96 10 0.48 10th 1.71 171 0.70 4th 6.29 19 0.90 5.50 20 1.03 20th 3.89 13 0.79 4th 1.12 9 0.53 5.81 23 1.26 6th 6.40 20 0.99 18th 1.06 6 0.33 2.48 17 0.59 26th 2.10 12 0.33 2.48 17 0.59 26th 2.10 12 0.31 2.48 17 0.72 26th 2.10 12 0.31 2.60 18 0.72 3rd 1.25 9 0.40 2.2nd 2.58 13 0.54 2.60 2.81 2.10 0.40 2.2nd 2.58 0.54 2.58 0.54 2.60 2.60 <td>968</td> <td>0.64</td> <td>9</td> <td></td> <td>24th</td> <td></td> <td>6</td> <td>0.80</td> <td>13th</td> <td>4.47</td> <td>100</td> <td></td> <td>4 -</td>	968	0.64	9		24th		6	0.80	13th	4.47	100		4 -
1.96 10 0.48 10th 1.71 17 0.22 18th 1.12 9 0.53 5.50 20 1.03 20th 3.89 13 0.79 4th 1.39 6 0.88 5.81 2.48 1.7 0.59 18th 1.06 6 0.33 6 0.33 5.60 18 0.72 3rd 1.25 9 0.40 22nd 2.58 13 0.54 5.81 2.4 5.80 2.6 0.89 11th 5.81 2.40 5.82 24th 5.80 2.6 0.89 11th 5.81 2.40 5.82 24th 5.80 2.6 0.89 5.81 5.80 5.80 5.80 5.80 5.80 5.80 5.80 5.80	897	3.78	17		31st		91	0.20	4+4	6.90	101		0
5.50 20 1.03 20th 3.89 13 0.79 4th 1.39 6 0.88 5.81 23 1.26 6th 6.40 20 0.99 18th 1.06 6 0.33 2.48 17 0.59 26th 1.06 6 0.33 2.48 17 0.59 26th 1.06 6 0.33 2.48 17 0.59 26th 2.10 12 0.31 2.60 18 0.72 26th 2.10 12 0.54 2.60 18 0.72 20th 2.50 13 0.54 5.81 24th 2.10 2.60 2.60 2.60 2.60 5.60 26 2.40 2.50 2.60 2.60 2.60 5.60 26 2.40 2.50 2.60 2.60 2.60	868	1.96	10	100	10th		12	00.00	1041		61		0
5.81 23 1.26 6th 6.40 20 0.99 18th 1.06 6 0.33 6 0.88 2.48 17 0.72 3rd 1.25 9 0.40 22nd 2.58 13 0.54 5.81 2.4 1.69 4th 2.19 20 0.48 24th 5.81 2.60 2.60 2.60 2.60 2.60 2.60 2.60 2.60	668	5.50	06		SOUL SOUL		10	0.22	Hern		50		
2.48 17 0.59 26th 1.01 10 0.25 26th 2.10 12 0.31 2.60 26 0.80 11.25 20 0.40 22nd 2.58 13 0.54 2.19 20 0.40 22nd 2.58 13 0.54 2.56 0.80 11.4h 5.81 2.19 20 0.48 24th 5.80 2.6 0.65	000	10.50	0.00		20th		13		4th		9		61
2.60 18 0.72 3rd 1.25 9 0.40 22nd 2.58 13 0.54 5.81 24 1.69 4th 2.19 20 0.48 24th 5.80 26 0.65 5.60 26 0.89 11th 5.81 2.10 1.25 3.00 0.48 24th 5.80 26 0.65	000	00.00	20		oth .		20		18th		9		63
2.60 18 0.72 3rd 1.25 9 0.40 22nd 2.58 13 0.54 5.81 24 1.69 4th 2.19 20 0.48 24th 5.80 26 0.65 5.60 26 0.80 11th 5.81 2.19	100	2.48	17	69.0	26th		10		26th		12		
5.81 24 1.69 4th 2.19 20 0.48 24th 5.80 26 0.65 5.60 26 0.89	305	5.60	18	0.72	3rd		6		22nd		13		
5.60 96 0.80	903	5.81	24	1.69	4th		06		94th		00		-
	904	9.90	98	0.80	1144		0.0	0.40	1041		07		

TABLE SHOWING RAINFALL AT CARDIFF IN EACH MONTH, DURING THE TWENTY-NINE YEARS, 1876-1904.

		APRIL.	III.			MAY	Y.			JUNE	NE.	
YEAR.	Rainfall in Month, Inches,	Days on which 0 01 or more rain fell.	Greatest fall in 24 hours.	Date of Greatest fall,	Rainfall in Month. Inches.	Days on which 0-01 or more rain fell,	Greatest fall in 24 hours.	Date of greatest fall,	Rainfall in Month, Inches,	Days or which 0.01 or more rain fell	Greatest fall in 24 hours.	D.te of greatest fall,
876	1.91	17	0.38	28th	0.53	4	0.19	94th	1.01	0	01.0	
877	2.80	20	0.52	20th	2.47	14	66-0	16th	1.48	10	0.02	Toth
18	4.10	21		9th	4.35	24	0.71	16th	3.68	2 12	1.0%	
819	5.64	17	0.73	19th	2.85	12	0.88	99th	6.48	93	1.00	
80	1.98	13	0.40	5th	1.45	=	0.46	26th	9.38	10	1.04	
81	1.44	1-	09.0	13th	2.62	10	1.73	17th	3.50	10	0.00	
220	2.68	20	09-0	12th		13	0.20	99nd	4.08	90	00.00	
83	29.0	1-	0.58	26th	1.90	12	20	1111	1.81	11	1.10	
75	1.26	11	0.43	3rd	2.37	14	0.20	2nd	1.09	0	1.11	
92	2.25	16	29.0	lst		27	0.71	19th	9.61	13	1.04	
988	2.98	15	0.73	7th		16		31st		2 2	*0.00	
887	1.63	10	0.45	26th	1.94	14	0.63	19th		- 4	0 20	
888	1.48	13	0.30	17th	1.69	80	0.40	17th	3.69	17	0.74	
888	3.24	18	0.71	30th	2.21	16	0.38	31st	0.58	9	10.0	
0880	08-1	77	0.34	6th	1.99	13	99.0	9th	2.46	17	0.40	
168	5.05	11	0.40	2nd	3.41	17	0.75	21st	2.47	10	1.30	
2882	1.27	6	0.43	20th	1.35	11		27th	1.93	101	0-81	
583	0.53	10	0.16	lst	2.80	12	0.72	19th	29.0	6	0.93	
588	2.02	15	0.41	23rd	2.18	15	0.20	15th	2.43	16	0.64	•
000	5.08	27	0.22	24th	0.20	60	0.41	31st	1.15	6	0.39	
989	5.03	14	0.80	15th	9-22	60	0.14	13th	2.48	=	1.00	
160	8.18	50	06.0	13th	2.29	8	0.20	29th	5.05	=	0.00	
200		10	0.58	11th	4.80	20	08.0	11th	5.06	14	00.0	
888		18	0.93	20th	2.49	12	0.78	19th	1.17	* 10	0.42	
900		12	0.45	3rd	1.89	13	0.37	91st	1.73	114	0.0	
106	4.24	14	0.01	32.1	0.01	10	0.49	20th	9.00	14	177.0	
905	2.36	6		44 & 146h	0.40	00	2 2 2 2	1001	00 0	n.	7.77	
903	2.48	16		956h		170	00.00	TOTH	2.80	200	0.42	12th
904	9-44	10	0.02	904	0.00	170	1 33	une		IS		
		1.00	000	Zatu z	3.00	553	0.03	24th	1.90	0	0.00	

TABLE SHOWING RAINFALL AT CARDIFF IN EACH MONTH, DURING TWENTY-NINE YEARS, 1876-1904.

		JODE.	DX.			ACGUST				SEFIE	SEFIEMBER.	
YEAR.	Rainfall in Month. Inches.	Days on which 0 01 or more rain fell	Greatest fall in 24 hours.	Date of greatest fall.	Rainfall in Month. Inches.	Days on which 0.01 or more rain fell.	Gentest fall in 24 hours.	Date of greatest fall.	Rainfall in Month, Inches.	Days on which 0.01 or more rain fell.	Greatest fall in 24 hours.	Date of greatest full.
1876	1.91	10	0.41	6th		27	2.72	19th	7.08	19	1.28	304
1877	4.94	18	1.27	14th	5.70	21	1.42	27th	3.25	00	1.39	276
1878	2.01	6	0.78	23rd		24	3.64	15th	3.21	6	1.28	22nc
1879	4.00	21	0.81	19th	8.12	22	1.34	27th	4.85	17	69.0	76
1880	6.64	23	26.0	17th		1-	0.27	2nd	3-67	15	0.77	170
1881	2.62	15	0.77	30th		20	1.45	22nd	5.00	13	0.48	22nc
1882	5.77	24	18.0	.6th	6.75	16	1.14	22nd	3.94	17	62.0	28tl
1883	3.26	21	0.85	20th		16	0.73	8th	6.14	19	1.53	23rc
1884	4.05	20	\$6.0	23rd		6	0.84	31st	1.96	15	0.64	218
1885	0.72	9	0.31	18th		12	1.07	6th	6.51	23	1.76	106
1886	4.85	17	0.71	29th	1.68	6	0.44	9th	4.08	14	0.75	46
1887	1.51	13	0.85	26th		11	1.02	16th	4.07	17	1.24	Is
1888	6-83	25	1.16	7th		17	0.74	29th	1.21	00		27th
1889	3.85	12		9th		15	0.65	2nd	5.00	6		23rc
1890	3.57	19	0.73	17th		20	0.02	9th	1.57	11		17th
1881	2.21	17	18:	2nd		555	1.10	26th	2.43	19		3rc
1892	3.83	6	1.50	12th	4.64	16	1.62	27th	3.92	14	-	29t)
1893	3.88	17	08.0	10th		14	0.25	20th	2.03	15		28tl
1894	4.22	20	0.07	24th		18	1.55	25th	2.55	10		22nc
1895	4.71	15	0.04	23rd		17	1.19	12th	1.17	10		9th
1896	1.14	00	0.35	24th	5.89	15	0.84	19th	7.34	23	-	17tl
1897	2.21	00	08.0	6th	5.42	16	1.30	30th	6.37	13	-	29tl
1898	0.40	67	0.50	lst	3.48	10	19.0	6th	1.94	4	1.38	29tl
1899	0.35	9	60.0	lst	1.74	7		29th	2.29	13	0.74	261
1900	89.0	00	0.27	27th	4.06	14		9th	1.32	10	0.20	26tl
1061	2.58	00	1.00	23rd	4.00	14	1.30	13th	4.36	17	1.52	13tl
1902	2.19	15	0.77	19th	4.21	23		14th	3.13	15	98.0	10t
1903	3.53	16	1.06	17th	5.84	26	0.72	23rd	3.73	21	0.95	28th
1904	4.13	10	1.69	25th	3.56	17	69.0	99nd	3.49	13	0.20	14th

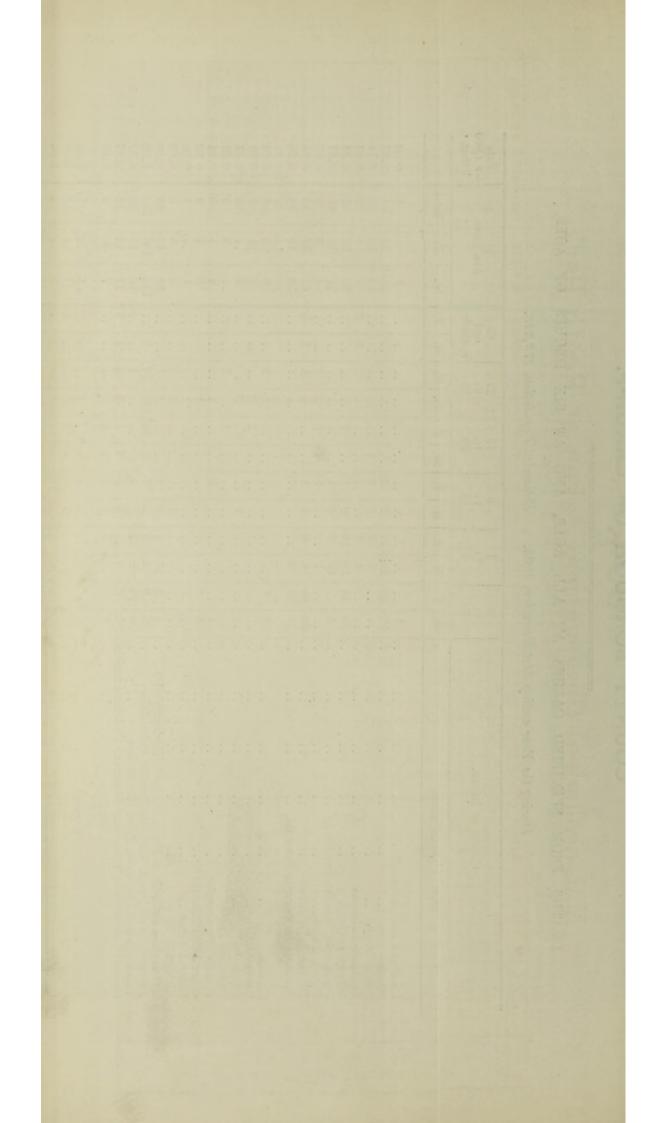
Rainfall per autum. Incebs. 46.62 46.79 46.70 Date Greatest fall. 1876-1934 30 Greatest fall in 24 hours. EACH MONTH, DURING THE TWENTY-NINE YEARS, Days on which 0-01 or more rain feli Rainfall in Month. Inches. 1- m n n n p + + - m - p m m n 0 0 0 1 + m m 0 0 0 m m 1 - m + m o g Greatest fall in 24 hours. Days on which 0.01 or more rain fell. 852285252599912525252525252525 N E Rainfall i Month. Inches. AT CARDIFF Date Greatest fall. SHOWING RAINFALL of Greatest fall in 24 hours. Days on which 0.01 or more rain fell. TABLE E Rainfall i Month. Inches. YEAR

DUNTY BOROUGH OF CARDIFF.

DEATHS FROM SPECIFIED CAUSES AT ALL AGES, AND AT SIX GROUPS OF AGES,

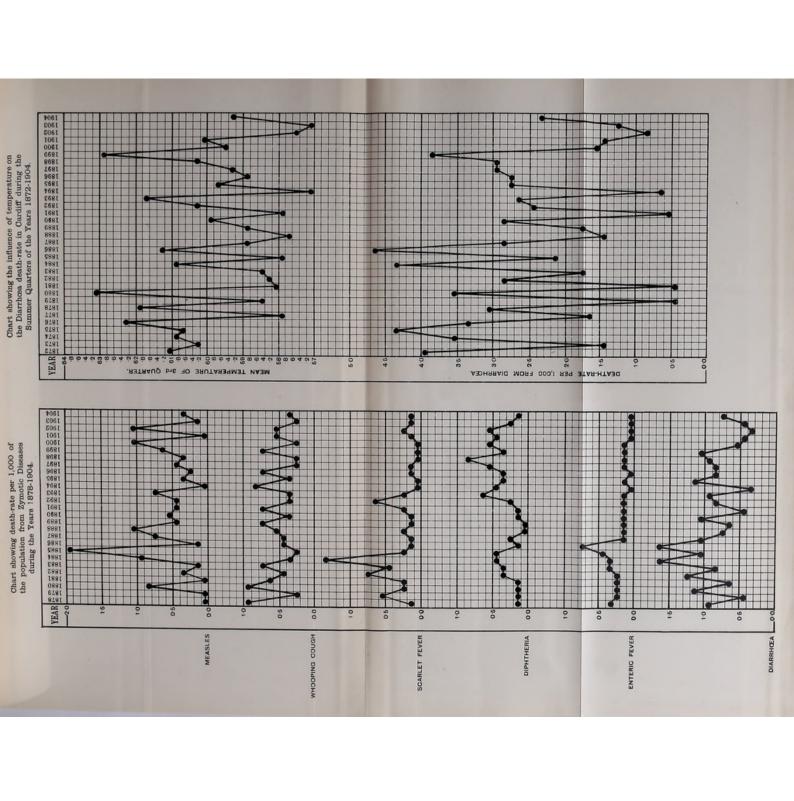
Dowing the Tear-valling 31st December, 1964. Edinated Population, 176,815.

| Full of the Part of the Part



Meteorological Observations taken at Roath Park. H Barometer Mean Weekly Reading Weekly Rainfall in Inches Mean Weekly Temperature

Charte showing the influence of temperature on the Diarrhon danth-rate in Cardiff during the European Countries of the Years 1872-1904.





1904

Weekly Notifications of Scarlet Fever, Diphtheria and Typhoid Fever.

