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Tracts 1932. REPORT (A)

ON

THE SANITARY CONDITION

OF

LEEDS,

FOR THE YEAR 1870.





BY M. K. ROBINSON, M.D.,

MEDICAL OFFICER OF HEALTH FOR THE BOROUGH OF LEEDS.

LEEDS:

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Members of Committee.

JOHN BARRAN (MAYOR)

ALDERMEN.

JOHN DARNTON LUCCOCK OBADIAH NUSSEY GEORGE TATHAM EDMUND STEAD ROBERT MEEK CARTER

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SANITARY CONDITION OF LEEDS.

To the Sanitary Committee of the Town Council of the Borough of Leeds.

GENTLEMEN,

During the year ending December 31st, 1870, the number of deaths registered in the Borough of Leeds was 7,333, the births numbered 10,439, showing 3,106 as the natural increase of population. Excluding the Hamlets, the North Registration district, which comprises the North and North-east Wards, exhibited both the highest death and birth-rates. Of the 7,333 deaths, 3,799 deaths were of males, and 3,534 of females; 4,262 occurred in the Township of Leeds, and 3,071 in the remaining divisions of the Borough. According to the presumed estimate of the population, the deaths last year equalled 28.2 per 1,000. This is below the average of the last ten years, but in excess of the three previous years. Throughout the year the weekly number of deaths ranged from 99 in the 24th week, to 207 in the 31st week. The third was the most fatal quarter in the year, when a droughty summer followed an unusually dry spring. More than half the deaths in this

quarter were due to diarrhea. The deaths occurred in the following districts of the Borough.—

DISTRICTS.	First Quarter	Second Quarter		Fourth Quarter	TOTALS	Death- rate per 1000.
Leeds Worth Town-ship. South Hunslet Holbeck Wortley Kirkstall Bramley Chapeltown Hamlets Borough	412 378 197 258 163 193 90 65 31 3	377 366 204 222 137 139 48 73 38 1	518 453 313 298 137 218 97 54 40 	463 337 244 276 139 168 98 45 40 	1770 1534 958 1054 576 718 333 237 149 4	37·0 25·7 30·1 27·2 27·1 23·7 21·9 26·2 25·2 12·0 28·2

Deducting 325 deaths which occurred at the Leeds Workhouse and House of Recovery, the rate in North Leeds would be represented by 30.2, and again subtracting 171 deaths recorded in the Infirmary, West Leeds would equal 22.9. It will be seen that the North division presents the highest rate, and this district contains the greatest proportion of inhabitants to superficial area. The resulting high death-rate thus agrees with the law shown by Dr. Farr to prevail, viz.:—That there is a constant relation between the density of the population and the mortality, and teaches the importance, which has been so often urged, of securing adequate space and ventilation for human habitations.

The respective ages at which the deaths occurred were as follows:—2,278 died before attaining the age of 1 year; 801 under 2 years; 622 under 5; 273 under 10; 140 under 15; 207 under 20; 414 under 30; 448 under 40; 507 under 50; 490 under 60; 585 under 70; 412 under 80; 125 under 90; and 11 under 100. Of the total deaths 41.4 per cent. died under 5 years of age, and 15.5 per cent. between the ages of 60 and 100, whilst the deaths under 1 year equalled 31 per cent.

Infant mortality always forms the principal factor in the total deaths, because the hold on life during the first year of existence is too feeble to resist successfully diseases, with which the adult may grapple without succumbing to their influence. The vital tenacity of infants diminishes as we proceed back to the commencement of life; the mortality, according to the Registrar General's returns, reaching during the first month of life to 57 per cent of those living at that age.

The following table exhibits the number of deaths referred to the principal zymotics during the last five years:—

DISEASES.	1866	1867	1868	1869	1870
Small PoxMeasles	59 219	46 28	17 95	42 26	9 179
Scarlatina	98 27	71 28	181 28	337 18	339 23
Whooping Cough Fever, including Typhus,	98 242	71 168	81 79	49 75	187
Fnteric, Relapsing, and Continued Fever	490	257	314	237	345
Diarrhea Other Zymotics	428 84	407 81	739 97	414 92	657 106
Totals	1745	1157	1631	1290	1889

Of the 9 deaths occasioned by small pox last year, 4 occurred in the North, and I in the South Registration District of the Leeds Township, 3 in Wortley, and 1 in Bramley. Three died under 1 year of age, 2 under 5, 1 under 30, and 3 under 40. Six of the 9 deaths took place in persons reported to be not vaccinated, and 1 of the deaths after vaccination was said to have been practised. The other 2 deaths were of persons on whom it was not ascertained whether vaccination had been performed or omitted. The Leeds Board of Gnardians deserve the thanks of the public for the firmness displayed in administering the Vaccination Amendment Act, and in the face of an epidemic in the country, the several Boards of Gnardians within the Borough will do well, not only to continue their exertions in enforcing early vaccina-

tion, but also by offering facilities for the re-vaccination of adults. The protective power of vaccination against this loathsome disease, is established on too undoubted testimony to permit the medical profession to disbelieve in its efficacy, and therefore it is to be hoped that the ignorant or unwary will not be induced to disregard the inestimable boon of free vaccination provided by the State, and that the intelligent part of the community in Leeds, will guard themselves and their families with the protective power of vaccination, against an epidemic which may at any time extend rapidly to our Borough. Besides the 9 deaths alluded to, 33 cases of illness from small pox came under notice, Bramley and Wortley suffering most. Four cases were introduced from other towns, 2 of them being tramps. Twenty-four persons had visited at houses infected with the disease, and it is supposed that 2 contracted small pox in the House of Recovery, as they succumbed to the disease after seeking the benefit of that institution as fever patients.

The deaths from scarlatina numbered 339; 165 of these were males, and 174 females. 36 died under 1 year of age; 50 under 2; 153 under 5; 76 under 10; 18 under 15; 2 under 20; 3 under 30; and 1 under 50. 84 of the cases occurred in the North Registration District of the Leeds Township, 49 in the West, and 64 in the South; 41 suffered in Hunslet; 29 in Holbeck; 16 in Wortley; 5 in Armley; 1 in Farnley; 4 in Headingley; 3 in Burley; 12 in Kirkstall; 20 in Bramley; 7 in Chapel-Allerton; 1 in Potternewton; and 3 in the Hamlets. From inquiries instituted into the circumstances surrounding the deaths and other cases which came under notice, I found that in 221 instances, either the actual sufferers, or members of their families, had visited infected houses; 67 had attended infected schools; 15 had played with infected children; and 14 were imported from other towns. In the houses where 74 cases occurred the drainage was found defective. The origin of scarlatina is still involved in obscurity, although various theories have been propounded to account for it. In an able paper contributed by Dr. Carpenter, and read at a meeting of the Medical Society of London, this year, that gentleman endeavours to show from the observations he has made of a number of cases, spread over a series of years, that scarlatina arises, sometimes spontaneously,

from the reception of putrid blood exhalations into the system, under certain conditions favourable to the development of the disease, and asserts that, when he was unable to trace the disease to an infectious source, the sufferers had been exposed to an atmosphere polluted by emanations from slaughter-house refuse, or decomposing blood. Scarlatinal poison is, however, very subtle, and easily disseminated, and until more is known respecting its origin, we must rely upon the public assisting in preventing its spread, by obtaining as thoroughly as possible isolation and disinfection in each individual ease as such arise. The importance of adopting prompt precautionary measures, cannot be too strongly impressed upon the superintendents of schools, where an outbreak takes place amongst their scholars, for it is quite certain that schools form an important element in the spread of this disease.

Under the comprehensive term of fever, 345 deaths were registered. Of these 182 were certified as enteric; 131 typhus; 13 relapsing; 13 continued fever; 3 remittent; and 3 puerperal. True, contagious typhus has been steadily declining since 1866, when the deaths then numbered 407. The following table shows the number of deaths in the Borough from the different forms of fever during the last five years:—

	1866	1867	1868	1869	1870
Typhus Enteric Continued Relapsing Remittent Puerperal Total		221 31 3 255	170 143 1 314	134 100 1 1 1 	131 182 13 13 3 3 3

It will be seen that enteric was the principal fever during 1870, and that the deaths were considerably in excess of those attributed to the same eause in any of the preceeding four years. This disease is often called pythogenic, or begotten

of filth, so constantly is it found to exist in connection with defective drainage or cesspool contiguity to houses or wells. The virus of enteric fever is eleminated chiefly by the bowels, and to this cause must be assigned the reason why it is so often associated with defective drainage and eesspool arrangements. In 85 of the eases where the deaths were referred to this disease, the drainage of the houses where the sufferers resided was found defective, and in 26 other instances the privies or ashpits adjoined the houses.

The year 1870 was marked in Leeds by an epidemie of relapsing fever, and although only 13 deaths were referred to this malady, which is so much less fatal than either typhus or enterie, upwards of 360 eases eame under notice. As this disease has received the name of famine fever, from epidemies of it being associated with periods of destitution amongst the inhabitants where it has prevailed, I directed special inquiry into the eireumstances of the families where it oeeurred, and in 261 instances I found that destitution existed. In very many instances this indigence did not result from the want of work (which would have brought them under the pauper elass), but from the dissolute habits of the heads of the families afflieted. Its contagious property is well known, and therefore it is not a matter of surprise that its extension in 228 instances was traced to this The North Registration District suffered most from the epidemie, and the eases occurred principally in the streets, courts, and yards, included in the triangular area bounded by Marsh Lane, Duke Street, and Quarry Hill; also in the streets between Quarry Hill, Mabgate, Linsley Fold, and St. Mary's Lane; with scattered eases in Ebenezer Street, Pollard's Yard, Lincolnfield Terraee, Back York Street, Harper Street, Granville Street, Bread Street, Wheat Street, Aeorn Street, Myrtle Street, and Nile Street. The South-east District suffered next in intensity, and here the streets between Marsh Lane, Shannon Street, Richmond Road, and East Street; with Bath Street, Bath Terraee, Cottage Street, Shears Yard, Camp Field, Waterloo Street, Plaid Row, Spring Close Street, Laurence Street, Hugo Street, Cross Green Lane, and Meadow Lane were the places infested. Hunslet suffered also to a considerable extent from the epidemic, the cases occurred chiefly in the streets and

vards situated between Low Road, Church Street, Anchor Street, and Greenwood Street; with scattered cases in Larehfield Street, Gordon Place, Grape Street, Leathley Street, Pottery Fields, and Upper Carr Place. The following were the places where eases occurred in the West District, viz.:-Lower Hanover Street, Cavendish Street, Wellington Lane, Saville Street, Baker Street, Marlborough Street, and Woodhouse Carr. Holbeck had cases in Holmes Place, Holmes Street, Moore Street, Linley Place, and Dale Street. Hardly any of the districts of the Borough escaped; scattered eases occurring in Wortley, Potternewton, Bramley, and Burley. Fifteen cases were reported from other towns; 7 of these were tramps ill on their arrival. Several came from Bradford, being ill when reaching Leeds. One came home ill after visiting an infected house at Brighouse, the rest of the family subsequently suffering. A bargeman came home ill from Hull. One young woman was taken ill on her way from Goole, sleeping in a barn with a number of others on the night previous to her arrival in Leeds; and one man after eoming direct from the Fever Hospital at Liverpool, was seized with a relapse in Water Lane, Leeds.

The deaths from typhus fever numbered 131, a smaller number than has been recorded for many years, and these cases, along with those of enteric fever, occurred in the same places as those where relapsing fever prevailed, with the following additions:—For the North District—The streets and courts bounded by George Street, Harewood Street, Lady Lane, and Millgarth Street; in the streets also between Bridge Street, Lilae Terrace, Millwright Street, and Templar Street, together with Pollard Street, Haigh Street, Tiger Street, Cambridge Street, and Lincolnfield Terrace, in Newtown. In the West District—The streets out of Kirkstall Road and West Street, streets and yards at Woodhouse Carr and Buslingthorpe, with Meanwood Road, Pack Horse Yard, and Commercial Court. In the South District-Courts and yards in Kirkgate, yards in Bowman Lane, Fleece Lane, and Meadow Lane, streets bounded by Great Wilson Street, Kidacre Street, Gas Works, and Meadow Lane, with Camp Field. In Hunslet, the cases occurred ehiefly in Grape Street, Vine Street, Pitfield Street, Pearson Street, Pottery Fields, yards in Church Street, and the streets between Beeston Hill and Lady Pit Lane. Other cases occurred in the Wortley, Bramley, and Chapeltown Districts. In the Map appended to this Report the localities are indicated where fever cases occurred.

Diarrhœa was the principal zymotic of the year, and not only contributed so largely in the third quarter towards the death roll, but, with the exception of bronchitis, constituted the most fatal of any of the diseases registered. Its victims were chiefly infants, for out of the 657 deaths attributed to the disease, 567 died under 2 years of age; 219 of these were not suckled by their mothers, but brought up by hand feeding. In 97 instances, common privies and ashpits adjoined the houses, and in 174 of the houses where the cases occurred defective drainage existed. The following table portrays the weekly number of deaths from diarrhœa during the third quarter of the year, with the recorded temperature, atmospheric pressure, and rainfall corresponding with each week.

1870.

WE	EK ENI	DING	Deaths from Diarrhœa	Mean Temperature	Amount of Rainfall
July	9th	******	12	61.1	0.56
,,	16th		22	63.7	0.01
,,	23rd		41	64.1	0.00
,,	30th		40	64.8	0.00
August	6th		69	65.5	0.00
,,	13th		S0	65.2	0.00
,,	$20 ext{th}$		73	60.4	0.53
,,	27th		66	55.3	0.44
Septemb	er 3rd	***********	45	55.1	0.88
,,	10th		36	56.3	0.49
,,	17th		30	52.9	0.35
,,	$24 \mathrm{th}$	****	18	56.4	0.02
October	1st		16	54.5	0.00

Diseases of uncertain seat caused 257 deaths, tubercular affections 879. The number of deaths referred to diseases of the heart was 320; and, excluding phthisis; 604 to maladies of the respiratory organs. By referring to the

weekly table it will be seen how the deadly effects of severe cold are manifested in the winter months, when the death-

rate rises from chest affections.

The remaining causes of death were registered as follows:-Diseases of the stomach accounted for 264 deaths; diseases of the kidneys, &c., 85; developmental diseases, 211; debility, atrophy, and marasmus, 471; old age, 217; childbirth and disease of the uterus, 49; and under the head of inquests, sudden deaths, and deaths from violence, &c., the causes registered are as follows: -Accidentally burnt, 20; choked, 1; injured 11; scalded, 10; drowned, 26; poisoned, 1; suffocated, 14; run over, 6; killed, 7; sudden deaths from fit, 20; apoplexy, 9; convulsions, 21; heart disease, 24; congestion of lungs, 15; laceration of brain, 1; concussion of brain, 8; rupture of blood vessels, 8; rupture of bowels, 2; scarlatina, 1; scrofula, 1; bronchitis, 1; phthisis, 3; hemorrhage, 1; syncope, 2; brain disease, 2; whooping cough, 1; pneumonia, 1; inflammation, 1; inflammation of stomach, 1; lockjaw, 1; fracture, 49; suicide by hanging, 9; drowning, 7; poisoning, 1; murder, 1; manslaughter, 1; found dead, 6; unknown, 1; surgical operations, 9. The foregoing is a summary of the causes of death during the past year, and from a retrospective glance it will be seen that what are termed zymotic or preventable diseases, contributed largely to the gross result. Most of the diseases in this class possess contagious properties, and much is done by your Committee in the way of isolation, cleansing, and disinfecting, as also by enforcing the provision of the Sanitary Act relating to the spread of infectious diseases, but so long as the infected continue to sell their clothing, travel in public vehicles, and otherwise mingle with their fellows, before the risk of communicating disease is removed, we cannot hope to eradicate these maladies. It is something more than a solemn mockery to hear a mother express her resignation to the Divine dispensation of disease, whilst bearing in her arms the infant at her bosom to a neighbour's house, whose children are stricken down with scarlatina or some other equally communicable disease. During last year 805 persons suffering from either scarlatina, small pox, or fever, clearly traced their attack to having had intercourse with infected sources. The two diseases which specially indicate local sanitary defects are diarrhoea and enteric fever, and it is a sad task

to witness removable causes of these maladies, without being able to remedy them by reason of the Chancery Injunction, which precludes your Committee from causing many necessary alterations to be made in faulty property. From a review of the various particulars coming to my knowledge in the course of the year, whilst inquiring into causes of the prevailing epidemics, I am led to the conclusion that the two prominent causes which contributed largely to the propagation of zymotic diseases were, first, the spread of these affections by virtue of their own contagious property, aided through the ignorance or carelessness of the afflicted, or of those in whose custody the sufferers were placed; and, next, the retention and perpetuation of the common-privy system, in its worst form, which results in producing a fæcal atmosphere in and around dwellings, and thus begets a pregnant source of enteric fever and diarrhoea. The removal of the first-mentioned cause will be materially facilitated if the public co-operate with the Committee in adopting precautionary measures, and also by perfecting the arrangements already in existence for separating the sick from the healthy, and securing thorough disinfection. Provision is now being made for supplying more adequately some of these requirements, and, therefore, by the exercise of due vigilance it is to be hoped that some of these diseases may be materially arrested in their devastating progress. In pointing out how to minimise the jeopardy to the public health, which is occasioned by the common cesspit system, some opposition may be provoked, but still as no new facts have come to my knowledge which induce me to alter an opinion already expressed, I can only repeat that I consider for a dense town population, the only perfect method for excreta removal yet devised, which fulfils most completely sanitary requirements, is the water carriage plan. In the suburban districts, wherever insuperable objections exist to this being carried out, Moule's earth closets offer a safe and efficient substitute. In giving prominence to these special causes, which I am anxious should be fully recognised because of their potency for evil, it must not be supposed that other causes have been overlooked, such as faulty construction in houses, occupation, habits, over-crowding, &c., with other remote and proximate elements, which operate in the origin and dissemination of disease.

SANITARY WORK DURING 1870.

Under the powers of the Nuisances Removal Acts and Sanitary Act, the Committee's functions have been extensively exercised as the following returns show:—

Cottage houses visited with t					
sanitary condition					15,489
Infected houses disinfected					 1,012
Overcrowded houses partially	empt	ied			 72
*Offensive midden sumps con	$\operatorname{vert} \hat{\operatorname{e}} \operatorname{d}$	into	water c	losets	 4
†Pigsties removed					 121
Miscellaneous nuisances remo	ved				 11,514
Notices and letters issued					
Orders made by Magistrates	***		***		 47
Penalties inflicted, including					

Mr. Sands' report of the work accomplished under the Smoke Prevention Clauses of the 1866 Leeds Improvement Act, is as follows:—

Number of observations taken by the Smoke Inspector during the year.

1866	1867	1868	1869	1870
2295	2008	835	898	843

Number of observations of 60 minutes' duration taken by the Smoke Inspector during the years

1866	. 1867	1868	1869	1870
155	92	13	93	116

^{*} Proceedings of this kind have been stayed in consequence of the Chancery Injunction.

[†] No proceedings were taken in these cases, nor pigstles removed, without previous complaints from the inhabitants.

Total number of summonses issued by the Smoke Inspector, with number of convictions, &c., in the following years:—

	Summonses Issued.	Convictions Obtained.	Dismissed or Withdrawn,		Im	posed
1866	48	43	5	£84	0	0
1867	25	19	6	47	0	0
1868	1	1		2	0	0
1869	41	33	8	58	0	0
1870	42	36	6	124	0	0

The lodging houses and minor workshops have been systematically inspected under the direction of the Lodging House Committee.

I am,

Gentlemen,

Your obedient Servant.

M. K. ROBINSON, M.D.

Officer of Health.

March 29th, 1871.

MONTHLY METEOROLOGICAL TABLE FOR THE YEAR ENDING DECEMBER 31st, 1870.

Taken at the Philosophical Hall, by the late

HENRY DENNY, ESQ.,

Month. 1870.	Mean Readings of Baro- meter.		Mean Tempera- ture. Dew Point.	Most Prevalent Wind.	Amount of Rainfall.
January	29.808	37·5	43.2	N.W.	1.70
February	29.703	37.0	32.9	N.E.	1:30
March	29.893	40.4	33.6	N.S.W.	1.50
1					
April	29:936	50.6	41.8	N.W.	0.46
May	29.839	54.4	43.2	W.N.E.	0.91
June	29.917	59.0	47.2	N.W.	1 '43
1					
July	29.821	64.2	50.8	N.W.	0.81
August	29:841	61.0	47.0	N.S.W.	1.52
September	29:871	55.2	48.3	W.N.E.	0.62
October	29:509	48.5	43.3	N.W.	4.85
November	29.629	40.2	36.1	N.W.	1.71
December	29.753	3 5·2	30.8	N.W.	2.67

LIST OF STREETS where Twelve or more CASES OF FEVER have occurred during the last Five Years.

		STREETS.		Vo. of Cases.
Bank		Bow Street		16
,,	•••	Brown Street		12
22		Brighton Court, Brighton Street		15
,,		East Water Lane, East Street	• • •	19
,,		Giles Yard, Mill Street	• • •	18
,,		Keeton Street, Pontefraet Lane		15
, ,		Kendall Buildings		20
"		Lower Cross Street	• • •	32
, ,		Pork Alley, Weaver's Square		28
,,	** 1	Riehmond Road		37
, ,	• • •	Sheffield Street		12
, ,	••	Wellhouse Yard, Riehmond Road		17
Meadow Lane	•••	Hill's Yard	•••	21
,,	* * *	Lee's Yard	•••	2 I
Hunslet	•••	Bell Row, Church Street	• • •	31
,,		Canning Street, Dewsbury Road	•••	14
,,	•••	Crowther's Buildings, Church Street		29
,,	•••	Derby Street		14
,,	** :	Drayton Manor Yard, Hunslet Moor		I 2
,,		Exehange Street		27
,,	•••	Greenwood Street		20
,,	•••	Holmes Place, Dewsbury Road		12
,,	•••	Hunslet Hall Road	• • •	23
, ,	•••	Miehael Street		12
,,	•••	Monkton Street	•••	13
,,		Myrtle Street		14
, ,	•••	Pollard's Square, Waterloo Road		30
,,		Trinity Place	• • •	21
,,	•••	Vaux Street		16
Kirkgate	•••	East Lane	•••	15
,,	•••	Harper Yard		23
,,	***	Harper Street		26

		STREETS.				No. of Cases.
Kirkgate		Moxon's Yard	•••			15
,,		Wellington Yard .		• • •		20
Kirkstall Road		Baker Street				15
Leylands		Myrtle Street .				17
,,		Templar Street				12
Mabgate		Middle Fold	• • •			67
,,		Ward's Fold				24
Marsh Lane		Dunn's Yard		e		18
, ,		Dufton's Yard				12
,,		Rising Sun Yard				17
,,	• • •	Off Street, Duke Street	·			12
Millgarth Street		Back George's Street				22
>>	• • •	Ebenezer Street		• • •		23
,,	•••	George Street		•••		16
,,		Nelson Street		• • •		14
,,	•••	Union Street		••		22
,,		Union Court, Union Str	reet			13
Moortown						22
Newtown		Brierly Street		• • •		20
,,	•••	Lion Street				27
,,		Lincolnfield Terrace				12
New Wortley		Barleycorn Street	••	• • •	• • •	17
Quarry Hill	•••	•••	• • •	•••		20
"	• • •	Allison's Buildings, Cha	arles S	treet	• • •	14
22		Boynton Street ·	• • •			15
2.2	•••	Charles Street, St. Peter	r's Str	eet		24
2.2	• • •	Randall's Yard	• • •	•••	• • •	16
,,		St. Ann's Lane	•••		•••	13
Stanningley		Post Office Row	• • •	• • •		16
Somerset Street	• • •	Dufton's Yard	• • •	••	• • •	12
York Road	• • •	Acorn Street	• • •	* * *	• • •	13
,,		Woodman Terrace	***	* * *		20
York Street	• • •		• •	• • •	• •	
,,	•••	Back York Street	•••	• • •	•••	16
,,	• • •	Brick Street	• • •	• • •	• • •	13
,,	••	Giles' Street		***	• • •	16
,,	• • •	Goulden's Buildings	• • •	•••	•••	16
27	•••	Lee's Square	•••	• • •	•	23
, ,		Lemon Street		• • •	• • •	13

		STREETS.			No. of Cases.
York Street		Lloyd's Arms Yard			19
"		Plane Street			43
,,	••	Upper Plane Buildings		•••	33
,,		Prospect Row, Lemon Street	• • •		12
"	•••	Stainburn Square	•••		14
"		Sykes Yard			19
, ,		York Court			12
Upper Wortley			• • •		17
,,	•••	Cabbage Hill			13
Lower Wortley					14



DEATHS REGISTERED IN THE BOROUGH OF LEEDS,

From 1st January, 1870, to 31st December, 1870.

	Sox,		AGE BELOW																Ι,	Leeds District.	ندا	نبا	Wor	tiey	Kirks		Chapel-		the		
CAUSES OF DEATH.	Total.	1	2	1 5	-	10	15	7 2	20	80	1	10	50	1	30	70	1 8	83	90	100	-	ASIFICE.	Distri	k Distric	Dist	\top	Distr	1	Distric	Istrict.	Yeariy Total of Borough.
	Males. Females.	М. F.	M. I	Р. М.	F. M.	jë,	M. F	. м.	F.	м. Г.	М.	F. 1	м. F.	М.	F. 7	I. F	м.	F.	M. F.	м. г	North.	West.	Hunslet	Holbeck	Wortley.	Farnley.	Heading Burley.	Kirkstall	Bramley Chapel-	Potter newton	Yearly Be
CLASS I. Small Pox Measles Scarlatina Diphtheria Quinsey Croup Whoosing Cough	7 102 7 165 17 13 1 3	4 20 1 0 1 8 4 5 50 8	1 6 2 4 7 29 5	2 3 2 2 3 13 10	22 2 81 33 8 2 13 5 27 1 16 15	43 3	10	3 1 1	1 1	1 2 1	. 2	1 .	. 1	. 1							3' 8-	49 11 1 10 30	1 40 17 64 4: 3 1 5 12 18 30	1 29 5 1 2 2 6 15	2	2 5 1 1	5 7 4 8 1 2	1 4	1 3 20 3 13	7 1	9 179 3 330 23 3 44 187
Whooping Cough Typhus, Typhus, and Typhinla Relapsing Fever Erystpelas Dysentry Diarrhea Cholera Remittent Fever Rhetmatic Fever	21 1 5 351 30	7		2 58 14	16 15 2 1 11 3		17 1 1	2 1 1	15	38 25 2 1	. 2 I	2 1	18 11 1 4 2 4 1 2	12	1]	9 8 1 2 1	2 2 1 2		4 1		18	5 5 2 117 1	30 5- 2 4 3 27 8	4 21 1 7 1 5 36	36 1 1 41 1	i	3 16	5	1 16	3 4	332 13 34 12 657
Syphilis Aphthe Alcoholism { Delirium Tremens Excessive Drinking Influenza. Blood Poisoning Mumps. Dypsomania	15 3 1	1 8 8 13 1	7 1 3	2						2 1	1		1	. 1		1					. 1	2 2 2 1 2 1	1	8 3		2				1	23 23 4 1 1
II. Dropsy Cancer Gangrene. Absess Rheumatisu Gout Purpura	30 33 12 22 22	41 3 65 1 1 9 1 10 5 1	1 1 4 3	1 1 2		2 2 1	1		2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 2 1	4 7	2 11 9 18 2 3 2 2	3 2 1		3 4 1 4 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 1 1	4 3 1 1 1	1 2 2 1	2	. 1	7 20 7 28 3 10 1 7 8 8 1 1	9 1	7 7 17 8 4 8	2	1 2 4 1 1 1 1	1 1		1 2 2 2 2 2	1	71 98 21 32 1 20 2
Diabetes Degeneratiou. III. Scrofula Tabes Mesentericu Phthisis Hydrocephalus.	26 64 310 38	13 8 68 34 321 6	1 2	1 2 18 9 5 5 12 8	4 3 5	3 3 2 2 6 8 1 2	3 2 6 1	1 1 1 11 41 2 2 2	2 1 50	75 9:	3 2 80		1 1 55 5	1		1 2 13	2 2	i 			1 1 2	134	5	6 5 11 6 11 6 8 6	1 1 2 1 4 4 2 81 6 2 11	1 4 14 14 1 1	1 10 1		1 4 19 1	1 1 9 2 1 1 4 4 4	39 132 637 71
IV. Inflammation of Brain, &c. Apoplexy. Paralysis. Epilepsy Convulsions Disease of Brain, &c. Hysteria Neuralgia Disease of Spino Chorea	64 49 8 178 91	48 48 12	12 25 1 27 123 26 9 4	15 8		1 3 5 4 1	i i	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 2 2	1 1 1 6	2 5 2 2 2 2 1 1 4 6	2 2 1 1	12 2 3 5	6 14 2 9 1 6 12	7	17 10 19 1:		13 16 3 4	3 1 3 1	1			4 2 88 6 8 2		9 2 2 25 9	0 3	1 3 2 2 2 1	3 2 1 1	4 8 1 9 5	2 1 1 3 1 4 2	112 97 20 320 142 7 21 3
Maula V. Disease of Heart Hemorrhage Ancurlsis Pycemia Syncope VI. Bronchitis	140 140 13 4 4 3	147 3 6 5 1 445 102 13: 35	1 1 1 1 1 1 1 57	1	2 1	2 1	4 2		5 5	1	1 . 6 1	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1	24 86 1 8 23 51 10 13	41	2	1 11 2 1 1 1 1		1 4 	······································	1 2	3 6 2 1 4 2	36 3 2 1 1 1 132 13	1	1	12 4 1 14 2 6 2	9 1	1 14 8 1	14 18 5	7 1 1	287 19 4 3 7 854 281
Pneumonia. Asthma Disease of Lungs, &c. Laryngitis. Pleurisy Hydrothorax Catarrh Asphyxia. Œdema of Giottis	151 14 80 6 1	1 27 1 10 1 2 5 3 1	42 27 1 1 1 2 1	5 1	3 15 2 2 1 2 1 1	1	3	1	2 1	5 2		6 4 3 1 1 3 1 1	9	1 1 1	3	2 1	1	1	i			7 3 16 2 3 1 1 1 3	1 2 1	3 15 2 3	3 4 1 3 .	1 2	1	1	1 1	2 2 1	15 57 16 8 7
711, Inflammation of Stomach Inflammation of Bowels Peritonitis Disease of Stomach, &c. Disease of Liver Hernia Sore Übreat	5 38 18 8 42	$\begin{array}{ccc} 14 & 1 \\ 26 & 16 \\ 28 & 2 \end{array}$	1		1 1 1 1 1 2 4	2	i i	1	1 5	5 4	2 1 7	2 1 2 1 3 4 4 7	2 8 1 10 1	2 3 5 1 5	1 2 2 2 1 3 . 7 8 12 1 1	2 2 1 4 13 2	2 2 7 2 1 3	1 1 8	1 1			2 7 3 9 10 16 5 5 13 28 6	1 6 5 7 14 2 1	1 16 1 1 13 1 13 1 1 1 1 1 1 1 1 1 1 1 1	3 1 15 1 5 2 2 7 6	1 1	1	1 2 1 1 2 1 1 1 1 1	2 1 1 3	2 3	19 64 46 25 93 10 3
Hepattis Stricture of the Æsophagus. VIII. Discase of Kidneys, &c. Bladder Discase IX. Chitdbirth Discase of Uterus. X. Discases of Skin, Cellular Tissue	40 14	33 16			1 1		i 2 i	····i	1 1		5 13 2	5 5	1 .	5 1	3	5 6	6 6		2			18 21 10 . 8 8 1 6 1 1 1		5 1 3	7 5 1 1 3 2	3	1	1 1 1 1	1	2 1	70 15 83 16 8
Nevl. Carbuncto XI. Debility Atrophy Marasmus XII. Premature Birth	9- 2 14	1 84 75 8 20 23 3 102 108 9 74 6	72 13 8 70 2	1 1 3 22	1 2 10 8	2	2	1 .			1	2	2		2 1		4 3 1 1	3 1	2			64 53 13 7 72 35 24 29 1 3 12 15	18 9 31	- 1	8 8 7 2 6 17 20 17 1 3 2	3 7 2 2 1 1	. 1	8 1 1 4 3 4 5 1	10 6 6 1	3 1 8 1 3 2 1 1 1 1 2	178 48 215 143 13 54 1
Tecthing Prolonged Labour Noma XIII. Old Age XIV. Fracturo Accidentally Choked Injured Scalded		. 1	2	1	1 1 2 2 3 1	2	1 3		4			5		1	1 3 3	3	12 53	2 1 i	24 8	2	4	56 29 2 33 1 1 8 2 4 1 3	20	30 5	1	5 4	1 .	7 3	5 2	1	217 49 1 11 11 10 26
Drowned Polsoned Suffocated Burnt Run Over Laceration of Brain Rupture of Blood Vessels Bowels Concussion of Brain		1 9 9 8 12 4 2 4 2 7 1 5 3	2 4 1	1	4 3 1	1	1	2	1 2 1	1	2	2 1 1 1 1	1 2	1	3	1		i 1		1		2 12 1 1 1 1 1 2 3 2 3 2 3 2	1	1 1 1	1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	: ::: :	1	2		14 20 6 7 1 8 2 8 1 1 1
Scarlatina Scarlatina Scarlatina Scarlatina Scarlatina Scarlatina Broachilla Broachilla Hemorrhage Starlatina Hemorrhage Starlatina Scarlatina		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				1			1 1		1 1 2	ï		2 1 8 1	1 2 2 2 1	1 1 1 1	5 2				1 3 1 1	···;	1 2	1 1 1 1 2 1 1 2 2 4	1		1 1	i .	1	1 15 3 1 2 20 9 24 2
Brain Disease g Whooping Cough g Pneumonia 5 convalsions Infiammation Lockjaw Inthomation of Stome Unknown, Hanging	h	1 1 1 12 9 1 1 1 1 1 1 1 1	i	1	1	::::::		1		1		· · · · · · · · · · · · · · · · · · ·	: ::::	1	4 1		1	1				3 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	i	i 2	i 3	1	2	1	2 2		21 21 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Poisoning Snieldo Murdor Murdor Many anghter From Dead, Surgical Operations VV Causes not specified.		1 1	1 2 90 75		7			3			1	12	-1	10	2 1	2		i ::	1	1		2 8 66 35 70 1524		8 40 2 154 57	1	6 5 67 52	72 14	1 2 9 112		2 1	1 1 6 9 253 4 7333
I. Zymotic Discares. II. Discases of Uncertain or Varia III. Tuberculer Discases, IV. Discases of the Uncertain of Varia V. Discases of the Uncertain Block	ble Seat arrow,&c. od Vessels	1006 S\$7 115 142 444 435 472 408 162 158	387 301 10 61 61 65 176 151 4 140 160 24 20	SS S6 52 36	24 30	4 7 2 12 3 9 1 3 3 12 7 2	15 18 1 10 1	3 2 12 14 7 9 3 2 6 1	42 5 5 4	53 75 10 12 5 12 7 19 6 10	92 17 13	83 6 21 1 25 1 38 2 11	13 18 53 56 10 25 17 26 28 62 14 17	34 57 22	18 26 24 36 24 21 38 17 39 26 75 51 14 28 14 3 3 3 3 3 3 3 3 3	15 15 56 38 76 26	9 43 44 79 14	8 1 2 33 3 12 1 53 5 5 1	8 7 4 1 8 5 0 1	1 5 2 3 1 4 1	1	505 203 49 76 236 198 (78 212 71 82 917 226 37 71 18 31	300 2 20 1 50 1 40 1	265 13 31 1 30 7 51 7 26 1 207 11 34 2	5 17 6 42 1 60 5 20 5 70 5 31	42 13 5 6 20 4 24 3 13 4 422 6 4 1 1	12 1 9 2 10 - 6 2	5 7 7 15 0 20 5 3	10 25 38 1 14	2 10 1 1 2 11 4 8 3 3 2 1	3 1893 247 879 880 320 1211 244 85 49
VI. Diseases of the Stomach, Diverville Community, and the Villabland Community, Sc. Villabland, Disease of the Life Community	rus, &c Pissue, &c mus	54 81 7 2 265 206 105 106 90 118 205 92 127 126	3 1 212 15 95 9 20 3 90 7	3 7 1	6 11 6 2 4 13 4 7	11 7 4 1	2	3 1 1 1 1 1 9 3 3	15 2	2 So	15	26	7 18 4	10 10	3 2 1 30 1 277	2 5 3 19 18 6 313	1 5 12 7 11	7 4 53 14 2	2 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 39 2 1 1 6	4	9 14 6 1 49 95 37 48 56 29 44 115 66 23	24 36 36 46	5 2 31 2 34 2 25 1 4 2	27 20 20 21 7 27 16	3 10 3 3 5 4 8 1 6 5		5 5 5 7 8 5 6	16 7 5 16 10	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 471 211 217 301 253
MalesFemales		3,534	103	39	· 3	16	. 152	69		105 21	210		96	245	21		272	22	2	73 6	-	70 1534		54 57	6 499 1	57 52	72 14	112	10	1 48	7333



WEEKLY REGISTER OF DEATHS IN THE BOROUGH OF LEEDS,

From 1st January, 1870, to 31st December, 1870

	From 1st January, 1870, to 31st December, 1870.																																									
CAUSES OF DEATH.	Jany. 8	2 3	1	ca Feby, 5	6 7		6 March 5	61 2	2 13		₹ April 9	91 15	E :	18 May 7	# # # # # # # # # # # # # # # # # # #	20	21 22 2n e 4	: 23	24 2	67 Kinf 26	SECOND QUARTER,	6 Klnf 27	9 8 z 28 2	9 30	9 Yang. 6	27 S	3 34	s Sept. s	0 L 1	38	G Octr. 1	QUARTER.	91 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	2 42	66 2 43 44	21 21 2	6 c	97 - 38 Poct. 3	01 = 49 8	1 57 2 2 50 51	52	тотити годинати тоти кок
CLASS I. Small Pox Measles Statistic Whooping Cough Croup Diarrhosa Dysentry Choiera, English	6 1 1		1	8 1	1 1 1	7 2 .	6 4 1 1 2	9	1 7 6 3 10 2	3 3 156 83 13 10 2	6	10 6 1 2 1	2 9 5 3 3 2 4 2 1	1 8	6 4 1	1 1 7 3 1	1 1 5 5 6 10 2 4	1i	1 4 2 4 4 6	1 6 2 1 10	3 14 81 54 15 44 2		1 2 6 2 4 4 2 2 4 1			6 10 4 1 2 1 30 73 1 1	6 3 2 66	4 4 3 1 45 36	1 4 2 3 2 1 30	5 1 1 1 1 18 1	2 2		12 1	5 2 2 1 6 2	1 7 4 5 1 1 1 2 3	4 7 1 1 5	12 3 5	7 7 6 5 1 4 1 3 5 2	14 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 12 3 5 2 2 2 2 4	1 9 1 3	2 94 53 27 13 55 5 5 5 6
Asiatie Inflienza. Typhus, Typhia, and Typhinia Relapsing Pever Syphilis Diphitheria Chembard Pever Rheumatic Pever Erysbelas		6 3	8		. 1 .		3 4 1 1	5 1	2	2 54 4 9 1	2	1	5 6	6	2 1 1	1 1	2 5	4	2 2	5	47 5 6		5 11 1	i	7	4 8	8 3 .	9 15 2 2	1 11 11 3	12 16 1 2	12		16 1 1	1 2			10 14	7 2 2	5 4	3	1 3 1	1 09 33 1 1 10 2 3 2 2
Aphtho Mnups Blood Poisoning Dypsomania Delirium Tremens II. Dropsy	2 1	1	3	1	1	4	3	3		10 2 24		3 4	1	1	2	1 1	1	1	. 1	1	7 3 1 1 1	1	2 1		1 2	3	1 3	1 2	1	1 1	8 15	3 1	2	1 1			i		1 1		î	9 3 2 1 1 1 4
Cancer Gaugrono. Abseess Litpus Rheumatism Gout Purpura Diabetes Degeneration.	1 2		1			4	4 2 1 1	2 1	3	28 2 11 1 6 1	2 1 2	1 2	i	1 1	1 1 2	2 4	1	2	1 1		21 7 8 3	2 1	1	1	1 1	1 3 1 1 1	1	2 1	1 1 2	2 4 2 5 1 1	13 28 6 6 4 1 3		4		1	1 2		1	2 2 2 1 2 2 1 1 2 2	1 1	2 2 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	71 98 21 32 1 20 2 5 6
III. Scrofula Tahes Mesenterica Phthisis Hydrocephalus IV. Inflammation of Brain, &c. Apoplexy Paralysis.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		4 11 1	1 15 2 3 2 3 1 2	8 . 9	7 1 1 1 3 4 2 4 2	1 1 2 1 2 17 5 1 4 8 2 1	2 1 3 3	3 11 5 2	5 18 156 19 34 31	13 1 1 2	1 2 3 5 16 1 1 2 5	1 2 10 3 3 3 2	2 2 16 1 3 2	1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 21 1 1 3	1 17 5	1 2 13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 5 1 12 3		13 23 185 14 38	8 2 2 2 2 15 4 3 2 5	1 5 13 1 3	1 1 5 16 12 16 2 1 3 3 3	1	1 3 13 2	1 5 5 2 9 1 2 3 1 1	2 2 14 1	1 6 6 13 10 2 1	1 3 9 2	14 52 158 23	3 19 2 3	4 12 1 1 1 3 3 3	2 1 6 7 1 3	2 5 17 1 1	5 6 11 1 3 3	1	1 2 16 1 2 2 2 3	1 1 5 2	2 1 1 11 2 4	7 39 138 15	39 132 637 71
Paralysis. Epilepsy Convulsions Disease of Brain, &c. Nenraigia Disease of Spino Chorea Mania	7 7 2 7	8 3 1			1 4 2	1 1 2 2	7 4 5	2 2 1 1 8 15 2 1 1	6 3	22 6 92 41 1 5 1 4	7 1 1 2	3 2 1 15 15 1	9 4	7 3 2	2 1 7 8 4 5	8 3 1	8 2	3 4 1 4 1	8 8 8	3	25 8 90 89 4 4	1 3 1 2 5 9 1 4	3 1 1	3 3 3	12 3	5 1 3	2 3 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 4 4	3 2 1 1 5 3 3 3	3 2	27 6 89 30	1 2 1 2 1 2 2 1 2 2 1 1 2 2 1 1 1 2 1	5 4	2 2 6 2	6 2	2 1 2 7 7 1 1 1	3 1 1 1 2	1 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 5 4	1 2 1 5 7 2 1 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1	23 5 58 32 2 8 1	112 97 20 329 142 7 21 3 5
V. Disease of Heart Hemorrhage Aneurism Pycenia Syncope VI. Bronchitis Pneumonia.		18	1	5 13	9 1 27 7		1 . 14 . 4	8 6 1 1 1 18 16 2 3	14 10	88 7 1 3 1 248 74	24 2		15 3	7 1 17 8	3 4 	3 11 6	2 2 	6 8 1 1 2 11 5	12		68 0 4 1 1	9 1	5 1 2 9 1	3 3 	5 2	2 7	5 2 3 2	8 6	0 4 6 8 2 5	11	57 5 1 2	5 7 9 13	7 7 		7 5 	7 1 1 1 26 5	34 2	6 5 	1 1 38 25	9 1 2 2 28 8 6	74 3 1 4 305 84	287 19 4 3 7 854 281
Asthma Disea-e of Lungs, &c. Laryngitis Pleurisy Hydrothorax Catarrh Asphyxia. Gdema of Glottis	1 2	1	1	1	1	i	1	2 1	1 1 1	8 14 5 3 2 1		1 1 2	2	3 1 1	i		2	3	1		16 3 2 1 1		1		1	1 2	1		1 2	1	10 10 1 1 1 1	1 2		1	2 1 2 1 1	1	1	1 2 1	3 1	2 1	6 18 7 2	15 57 16 3 7 3 4
VII. Inflammation of Stomach Inflammation of Bowels Peritonlits Disease of Stomach, &c. Disease of Liver Hernla Sore Throat Stricture of the Æsophagus.	1 2	2	1 1 1	1 1 1 1 1 2	2	2 1	4	3	9	6 2 14 3 15 3 2	1 1 2 1		2 . 1	1	i 2 3 1 1	1 1 1 1	2 1 2	3 1 2 1	3 2		6 3 11 9 18 1 1	2 2	5 1	2 5 1 1 2	7 3 6	1 8 2 8 2 2 1 1	1 6 1 1 4	6 1 2 1	3 1 1 1 3	3 1	5 44 8 6 32 3	3	1 8	i .	1 2 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1	2 2 1	1	2 4 1 2 1	2 1 2 1 2 1	1	2 15 13 7 28 3	19 64 46 25 93 10 3 4
VHI, Disease of Kidneys, &c. Bladder Disease IX. Childhirth Disease of the Uterns. X. Disease of Skin, Cellular Tissue, &c. Novel.	1		••••	•• •••	2	1 1 1	4 2	1 3	2	19 3 5 3	i	1 2	i .		1 1 1 1 1	1	3	3 4 1	1	3 2	19 3 4	1 3	1 i	2	3	i 1 i i i i i i i i i i i i i i i i i i		2	i	3	14 5 9 6	1	2 2		1 1 1 1 1 1	1 1	2	1 2	2 1 1	3 1	18 3 11 4	70 15 38 16
XI. Debility Atrophy Atrophy Marasmus XII. Premature Birth Malformation	3 1 5 3 1 2	2	5	6 4	2	7 3	3	6 5	6	51 8 54 43	1 2 3 3 4 4 1 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1 4 1	8 6	2 1 1 5	2 4 2 2 4 2 3 1		3 2 4 3	3 3 1 1 1 7 1 1		6 1 6 2	17 8 12 1 18 1 35 2	6	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 6 1 1 1 14	1 12	3 0 1 0 8 1 2	5 4 6	1 5 8	3 2 1 3 4 3	2 1 4 2	18 87 31 2	3 8 2 6 1 3	3 5 2	5	2 1 5 1 5	8 8	1 5 6 2 4	1 1 1	3 2 2 5	1 1 1 9 3	10 50 34 2	5 178 48 245 143 13 54
Tecthing Prolonged Labour XIII. Old Age XIV. Fracture Accidentally Cheked injured , Scalded	10	4	2 1	5 9	5	6 5	6	3 3 1 1	5	63	4 1	7	7	1	1 2	2	4	2 1	5	4	17 5 4 4 8	6	1 3	9	 1 1	2 6	2	4 1	4	δ 1	15	2 2	2	8	•• ••••	2	:: :::	7	4 3 2 1	3	51 13 3	1 217 49 1 11 10
Drowned Poisoned Suffocated Burnt Rin Over Laceration of Briain Rapture of Blood Vessels Bowels Bowels			1	· · · · · · · · · · · · · · · · · · ·	1	i i		1 1 · · · · · · · · · · · · · · · · · ·		1 5 2	1	: 'i'		i	1		1			·· ·· ·	. J		1 1 1 1 1		1	1	i i	1		i	3 2 1 1 3 1	1		1	1	6 1	1	2	i i	2	1 7 7 1 3	26 1 14 20 6 7 1 8 2
Scariatina Scrotula Beonchitis Canastion of Brain	i	2	1	1			1			5	i	1				1			1 1 1 1		1						1				2 1								1		1 1 2	8 1 1 1 15 3 1 2
Apoplexy General Disease Brain Disease Whooping Cough The Disease		1 .	i			1 8	2		:	1 10 1 9 	1	1		. 1	2	1 .	1 1		1																1	i;	2	1	1 1	2	1 8 2	9 24 2 1 1 1 1 1 1
Polsoning Suicide Murder Mauslaughter Found Dead.	1		1			1		1		1							1	1	1 1	3	1	1	2								2 3			1		1		1				
XV. Canses not specified	9 9	7	8 1	8 9	11 1	1 1	187 11	5 117	3 121 1	74 12	4 4 90 130	2 158 1	26 12	0 113	120 1	8 128 13	5 5	4	1 3		8	1	4 2	9	3 7	9	4	4 3	8	6 6	33 4	-	6	5 1	3	7 4	10	1 6	3	9 1810	-	-
I. Zymotic Discases. 11. Diseases of Uncertain or Variable Scat 111. Tubercrier Diseases. Symultonerow & V. Discases of the Heart and Blood Vessel VI. Discases of the Lungs, & VII. Discases of the Stomach, Liver, & VIII. Discases of the Kidneys, & VIII. Discases of the Stomach, Liver, & VIII. Discases of the Stomach, Liver, & VIII. Discases of the Stdmays, & Company of the Stomach of the State of the Stomach, Liver, & VIII. Discases of the Stdmays, & Company of the State of the Stdmays, & Company of the State of the Sta	19 18 7 10 34 33 2 4	2 3	12 1 9 28 3 4 1	$ \begin{array}{c cccc} 7 & 17 \\ 9 & 5 \\ 6 & 24 \\ 2 & 6 \\ 1 & \dots \end{array} $	18 2 10 37 2	8 9 8 20 5 19 7 9 5 23 4 2	21 6 22 6		7 14 19 4 27	73 198 1237 100 356 2	** 1	7 22 26 6 40 2 1	2 16 21 11 5 20 4	3 7 1 16 9 17 8 3 0 20 3 4 1 1	3 21 26 4 19 5	4 24 19 1 3	4 8	3 13 4 8	17 26 7 16 20 19 13 6 6 19 21 5 2 2 5 1 1	52 235	6 21 12 6 6 5	3 2 22 2 28 1 3 10 1	0 20 3 21 8 3 1 16 6 9	7 22 1 21 2 3 16 1 3 1	$\begin{bmatrix} 21 & 14 \\ 5 & 2 \\ 10 & 16 \\ 16 & 14 \\ 3 & 1 \end{bmatrix}$	7 18 16 8 8 6	· · · · i	3	6 17 17 17 17 15 15 15 2 5	9 10	4 5	4	5 6	1 1	23 33 4 18 13 12 26 5 5 5 28 32 6 2 2 2 1	3 9	3 ,	27 28 5 7 12 9 12 18 5 6 1 53 3 8 2 2	8 3	3 68 3 199 0 196	257 879 880	
IX. Childbirth, Disease of the Uterus, &c. X. Diseases of the Skin. XI. Debulity, Atrophy, and Marasmus XII. Developmental Diseases XIII. Old Age Age XIV. Inquests and Deaths from Violence, &c XV. Causes not specified Males.	10 5 10 8 9	7 9 4 4 4 6 9 7	9 1 5 1 10 8	0 7 2 3 5 9 1 6 8 9	8 1 1 1 5 4 11	3 ··· 3 · 7 · 3 · 6 · 5 · 7 · 13 · 1 · 1	9 4 6 7 2	6 10 9 3 3 3 4 4 2 4 55 67 50 50	57	113 68 63 78 1	5 11 4 6 3 5 0 4 4 4	4 5 7 8 2	14 6 6 7 1 2 6 1	1 8 8 4 1 4 2 7 1 5	6 1 2 6 3	11 3 2 8 8	9 5 3 4 4 3 6 8 5 5	11 1 4 6 4	6 13 8 3 5 5 1 3 64 52 55 66	2 107 54 47 81 51	5 3 5 8 3	10 1:	3 G 7 1 1 3 1 10 2	21 1 3 9 4 9	1 1 3 13 5 2 4 2	1: 1	5 14 1 2 4 8 1 4 1	5 5 3	3 7 5 2 4 5 1 3 8 6	152 41 56 65 63	5 2 3 1 4	15 1 6 5 6 6	2 7 4 4 2 8 1 1 6 5	4 5 3 6 1	8 6 2 9 2 2 8 11 3 7	7 2 4 8 4	6 10	5 7 4 1 7 4 5 7 1 6	7 111 2 3 3 4 4 10 3 6 59 78 74 71	1 99 48 51 80 65	9 471 211 217 304 253 3799 3584	
Females	. 167 121	127	150 10	52 151	142 13	33 139	137 11	5 117	121 13	90 12	9 130	158 1	26 120	113	120 1	25 13	120	99 11	19 118	1605	114 1	38 165	166 2	207 20-	3 88	201 161	1 157	150 15	29 138	2128	120 1	110 144	115	133 1:	23 162	153 1	49 183	156	33 149	-	7333	
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FEVER MAP. OF FEVER OCCURRED DURING 1870. THE CROSSES SHEW WHERE THE CASES N B.-WHERE TO ROOM EXISTS FOR A SEPARATE CROSS, FIGURE AND BLACK MARKS ARE USED AS A SUBSTITUTE.





