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SECOND ANNUAL REPORT.

THE

SANITARY CONDITION

OF

THE CITY OF GLOUCESTER, DURING THE YEAR 1859.

BY

BUCHANAN WASHBOURN, M.D. LOND.,

UNIVERSITY SCHOLAR;

MEMBER OF THE ROYAL COLLEGE OF PHYSICIANS, LONDON;
HONORARY MEMBER OF THE METROPOLITAN ASSOCIATION OF OFFICERS

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THE SANITARY CONDITION

OF THE

URBAN DISTRICT

OF THE

GLOUCESTER UNION.

1859.

I AM happy, in this my second Annual Report of the sanitary condition of the City of Gloucester, to be enabled to congratulate my fellow citizens on a

still further improvement in the health of the population.

The population in 1859 was estimated at 17,209. The registered births were 523-265 males and 258 females, of these 6.11 per cent were illegitimate; in 1858, they were 528-278 males and 250 females. The registered deaths in 1859 were 293-142 males and 151 females-of these deaths, 5.80 per cent. were uncertified. In 1858, 326 deaths were registered. These numbers do not include the deaths or population in the Union Workhouse, Infirmary, and Alms-houses. In 1858 the death-rate of the city-proper, including the mortality in the above-mentioned Institutions was 22.07 per thousand, exclusive of that mortality 19.19 per thousand. Last year the corresponding death-rates were 18.69 and 17.02 per thousand, leaving a balance of 3.38 on the former calculation, and 2.17 on the latter in favor of 1859; taking the latter calculation this balance is equal to a saving of thirty-seven lives. Calculating the mortality of the city last year at the rate arrived at by excluding the mortality in the Hospital, &c. &c. but one death, over what may be called the model death-rate of an urban population, has taken place, a fact which I trust will go far to satisfy the opponents of sanitary progression, that already some good to the community has been obtained. Of course such a low death-rate as the one above-mentioned cannot be attainable every year, for although Diphtheria and other Zymotic diseases were present in our city, yet the total number of deaths was less by thirty-three than in 1858.

Too great a value must not be attached to the low death-rate of a locality. It shews that a certain amount of sanitary precaution has been exerted, but it is no evidence that the condition of the locality cannot be improved. The grand test of the salubrity of a district is the character of the diseases prevalent there; if these diseases be many of them of a Zymotic character, the sanitary condition of the district is far from perfect, and although a smaller number of individuals may, year by year, fall victims to those diseases, that is no proof that all has been done that can be done; on the contrary, while a certain amount of hope may be derived that, owing to the increased strictness of sanitary inspection, many of the lurking holes of disease may have been

discovered and stopped up, and the fortifications against their inroads multiplied and strengthened, still it must not be forgotten that unceasing vigilance will be required to descry the approach and guard against the attacks of enemies so wily and determined; and the victory gained over them one year must not lap us in a fancied security, that we have obtained an immunity for the future.

The following table shews the distribution of deaths:-

PARISH OR HAMLET.	Males.	Females.	Total.
St. Catherine	10	13	23
St. Mary-de-Lode with Col-	11	8	19
Holy Trinity	6	2	8
St. Nicholas	19	20	39
St. Owen	8	6	14
St. Mary-de-Crypt	10	7	17
St. Mary-de-Grace	3	1	4
St. John	39	49	88
St. Aldate	5	5	10
St. Michael	9	8	17
Barton St. Michael	3	3	6
Barton St. Mary	4	10	14
South Hamlet	8	12	20
Littleworth	7	7	14
Deaths in Infirmary, from City Parishes	2	2	4
Ditto in Alms-houses	2	0	2
Ditto in Work-house	17	11	28
Totals	163	164	327

The death-rate in 1859 of the different parishes is as follows—it is compared with the average annual death-rate for the last eight years, and with the birth-rate for 1859.

PARISH OR HAMLET.	Estimated Popula- tion in 1859.	Death- rate in 1859 per 1000.	Birth- rate in 1859 per 1000.	Death- rate on 8 years per 1000.	Above the Average.	Below the Average.
South Hamlet	1944	10.28	22.63	14		3.72
St. Michael	1475	11.52	25.76	13		1.48
St. Mary-de-Grace	294	13.60	30.61	7	6.60	
Holy Trinity	570	14-03	21.05	19		4.97
St. Aldate	704	14-20	28.40	22		7.80
St.Nicholas(including Pool) Meadow and B. H.)	2611	14.09	33-29	23		7.30
Barton St. Mary	877	15.96	31.92	15	-96	
St. Mary-de-Lode (includ- ing College Precincts)	1156	16.43	28.54	26		9.57
Barton St. Michael	350	17.14	34.28	18		-86
St. Catherine	1304	17.63	45.24	25		7.37
St. Mary-de-Crypt	890	19-10	25.84	16	3.10	
*St. Owen	643	21.77	32.11	ONE INC		or the st
St. John	3924	22.42	23.55	22	.42	au . Terre
*Littleworth	467	29.97	23.53	100.00		mark. In

^{*} The mortality in the Infirmary having unfortunately been included in the number of deaths occurring in the parish of St. Owen and the hamlet of Littleworth during the seven years forming the period on which the average is taken, obliges me to leave them out of the calculation.

Comparing the death-rates of the several parishes with the average of eight years eight are below, and only four above. The South Hamlet holds the first place as possessing the lowest death-rate in 1859, in 1858 it was sixth—Barton St. Michael, first in 1858 is ninth in 1859. St. Michael retains its position as second, while St. Mary-de-Lode, which in 1858 was lowest, and concerning whose insalubrity special reference was made, has in 1859 succeeded in obtaining the eighth place.

The following table gives the rate of mortality in some of the lanes and streets:-

NAME OF STREET.	Length in yards.	Breadth in yards.	Estimated Popula- tion in 1859.	No. of Houses.	Houses connected with main Sewer and hav- ing Water-supply.	Deaths from all causes, 1859.	Deaths under 5 years. 1859.	Deaths from Zymotic Diseases.	Deaths from Disease of respiratory Organs.	Death-rate per 1000. 1859.	Death-rate per 1000. 1858.
Alvin Street Sherborne Street Columbia Street Union Street Worcester Street Hare Lane *St. Mary's Square Mitre Street Oxford Street Brunswick Square Prince Street	132·67 92·33 441·00 360·33 102·00 190·67 158·66 100·47	9·37 10.00 11·08 10·00 20·24 6·76 9·40 5·09 11·33 11·52	264 216 594 450 315 315 330 130	55 26	23 14 22 21 12 16 24 18 21	7 8 4 4 14 5 5 7 7	4 4 3 1 2 2 2 2 2 2 2 1 2	1 2 2 0 1 1 0 1 2 1 2	2 3 2 0 3 2 0 3 1 3 3	11·32 26·66 15·15 18·51 28·56 11·11 15·87 20·52 32·40 37·83	16·18 30·00 22·72 23·14 16·83 13·33 34·92 28·57 00.00 00.00
Brother's Place Cross Key's Lane	167·33 102·33	10·27 4·41	396 110			7 3	4	5	0	17·67 27·27	00.00

The following table shews the distribution of births:-

PARISH.	Males.	Female	s. Total 1859.	Birth- rate in 1859 per 1000,	Birth- rate 1858.	Birth- rate on an average of 8 years.
St. Catherine	31	28	59	22.63	44.46	43.46
St. Mary-de-Lode with College Precincts	12	21	33	25·76 30·61	43.25	36.39
Holy Trinity	7	5	12	21.05	27.02	27.20
St. Nicholas with Pool	42	44	86	28.40	29.29	32.21
Meadow	13	9	22	33.29	33.53	28-28
St. Mary-de-Crypt	12	11	23	31.92	24.65	25.53
St. Mary-de-Grace St. John	65	5 61	9 126	28.54	38·33 34·00	17:51 36:95
St. Aldate	10	- 10	20	34.2	28.57	35.63
St. Michael	22	16	38	45.24	27.00	26.40
Barton St. Michael	1	11	12	25.84	26.31	38.37
Barton St. Mary	18	10	28	32.11	28.88	35.60
South Hamlet	20	24	44	23.55	21.37	26.08
Littleworth	8	3	11	23.53	45.45	30.21

^{*} In the centre of the Square is a church and churchyard; the breadth given is that of the thoroughfares between the houses and churchyard railings.

Death-rate per 1000,	Birth-rate per 1000,	Birth-rate per 1000,	Proportion of births to deaths in 1859.
1859, whole district.	1859, whole district.	8 years.	
17.02	30.39	31.41	1.78 to 1.

Proportion of births to deaths, 8 years.	Proportion of males to females, 1859.	Proportion of males to females, 8 years.
1.57 to 1.	1.02 to 1.	1.04 to 1.

The illegitimate births were in the South Hamlet, 2 per cent.; in St. Catherine and St. John, 5 per cent.; in Barton St. Mary, 7 per cent.; in Holy Trinity, 9 per cent.; in St. Nicholas, 11 per cent.; in St. Mary-de-Lode, 13 per cent.; and in St. Michael, 15 per cent.

Zymotic Diseases. The deaths from these diseases in 1859 were 62, against 97 occurring in 1858. Only two persons died from small pox; yet it must be confessed that vaccination still continues to offer but little attraction to the poorer classes; and, notwithstanding the facilities afforded, children are allowed to grow up unvaccinated, until small pox rages epidemically, and then it is to be feared the operation is frequently slurred over, they are imperfectly vaccinated, and although armed with a warranty of protection, too often fall victims to the disease, thereby bringing the operation into most undeserved repute. The registrars still complain of their inability to obtain certificates of vaccination, and that their complaint is not unreasonable, the following table will shew:—

Year.	No. of births.	Vaccination certificates.
1854	412	256
1855	438	246
1856	408	204
1857	407	204
1858	420	172
1859	416	57

The preceding Table refers to the District of the South Hamlet, but in the St. Nicholas District the same paucity of certificates obtains; 400 births were registered, and only 23 certificates were received.

I am indebted to my friend, Mr. A. P. CARTER, for the following statement respecting the proportion of vaccinated to unvaccinated children in the National and some parochial Schools.

SCHOOL.	No. of Children.	Vac- cinated.	Un-vac- cinated.	Doubtful.	Per cen- tage of un- vaccinated children.
National	167	150	16	1	10.66
	165	136	26	3	19.03
	75	57	17	1	29.82
	117	90	27	0	30.00

Of the above 524 children, there were 15 who had been attacked with small pox, and subsequent enquiries elicited the fact that not one of them had been vaccinated.

From Diphtheria, 10 deaths occurred, 1 male and 9 females,—3 under five years of age, 1 male and 2 females—6 between five and ten years, all females, and one female aged 43 years. The deaths were distributed among the parishes thus: St. John, St. Mary-de-Crypt, and South Hamlet, in each two deaths; St. Owen, St. Nicholas, St. Mary-de-Lode, and Littleworth, in each 1 death.

MORTALITY FROM ZYMOTIC DISEASES.

PARISH OR HAMLET.	Deaths from all causes at all ages.	Deaths from Zymotic Diseases at all ages.	Deaths from Zymotic Diseases, under 5 years.	Per centage of Zymotic Mortality.	Annual per centage of Deaths at all ages from Zymotic Diseases, on an average of 8 years.
St. Aldate	10	1	1	5	17
St. Mary-de-Crypt	17	2 1 2 2	0	11 12	12
Holy Trinity	8 14	0	1	14	16
*St. Owen	14	2	i	14	† 15
Barton St. Mary	14	2	1	14	15
St. Mary-de-Lode (including College Precincts)	19	3	2	15	26
St. Catherine	23	5	3	21	19
St. Michael	17	3	1	23	15
St. Nicholas (including Pool Meadow)	39	9	9	23	23
St. John	88	22	13	25	15
South Hamlet	20	7	2	35	14
Littleworth	14	5	5	35	100
					81,001 8

No death occurred in the parish of St. Mary-de-Grace, and the hamlet of Barton St. Michael.

The following table gives the ages at which deaths have occurred, and their various per centages:—

		1859.	1858.
Under 5 years	122	41.03	42.63
Between 5 and 10	17	5.80	7.36
,, 10 and 15	5	1.70	1.53
,, 15 and 20	11	3.75	2'76
,, 20 and 30	15	5.11	5.21
,, 30 and 40	19	6.48	7.97
,, 40 and 50	22	7.50	5.82
,, 50 and 60	19	6.48	7.36
,, 60 and 70	22	7.50	8.28
,, 70 and 80	32	10.92)	19.00
Over 80 years	9	3.07}	13.80

^{*} The mortality in the Infirmary having unfortunately been included in the number of deaths occurring in the parish of St. Owen and the hamlet of Littleworth during the seven years forming the period on which the average is taken, obliges me to leave them out of the calculation.

⁺ Only 7 deaths occurred in 8 years.

The per centage of the infant mortality in some parishes is shewn as follows, and compared with the annual per centage deduced from an average of eight years:—

PARISH OR HAMLET.	Per centage of Infant Mortality. 1859.	Per centage of Infant Mortality. 1858.	Per centage of Infant Mortality. 8 years.
St. Nichelas	61	44	50
Barton St. Michael	50	25	43
St. Catherine	43	39	38
St. Owen	43	70	18
St. Mary-de-Grace	25	60	42
St. Mary-de-Crypt	41	43	34
St. Aldate	40	25	50
St. John	39	37	46
St. Mary-de-Lode (including College Precincts)	36	45	55
St. Michael	35	50	47
Littleworth	35	60	46
South Hamlet	35	29	32
Barton St. Mary	35	50	49
Holy Trinity	25	33	47
ec e e e e	38.71	43.57	4 2 64

The following table shews the average age in years at death in the various parishes for 1859:—

PARISH OR HAMLET.	Males.	Females.	Both Sexes.	Average Age at death, both Sexes, 1858.
St. Nicholas	15.68	15.90	15.79	22
St. Catherine	18.70	27.92	23.31	26
Barton St. Mary	15.75	27.50	21.62	26
Barton St. Michael	21.66	32.00	26.83	36
St. Mary-de-Lode	19.00	39.57	29.28	23
South Hamlet	23.75	31.08	27.41	36
St. Michael	16.00	42.87	29.43	24
St. Owen	35.12	22.66	28.89	17
St. John	28.07	32.85	30.46	32
St. Mary-de-Crypt	31.70	34.00	32.85	21
Holy Trinity	32.00	41.50	36.75	22
St. Mary-de-Grace	27.66	*	37.00	18
Littleworth	35.00	48.25	41.62	24
College Precincts	48.00	*	49.33	48
and all of hibrary man distances	ter astro	Compton S	L on total	Sharon !

* Only one death.

The average age at death in 1859, in the city generally, not reckoning the deaths in the Alms-house, was 32.23 years. In 1858 it was 26.33.

WORKHOUSE HOSPITAL.

374 Persons received medical relief at the Union Hospital from January 1, 1859, to January 1, 1860.

Zymotic Diseases	Syphilis 16 Diseases of the Eyes 13 Debility 15 Lunatic 4 Scalds 3 Diseases of Joints 4 Old Age 2 Wounds 1 Vaccination 4 Childbirth 16 Tumour 1 Boils 4 Hæmorrhage 1
Chilblains 6 The Zymotic Diseases were sub-diseases sub-diseases were sub-diseases	Sprain 1 vided as follows:— 3 Erysipelas

The number of deaths in the same period were 46, of whom 26 were males and 20 females. Of the fatal cases nine were over seventy, and eleven were under five years of age.

METEOROLOGY.

"The average temperature of the year was 50°8, which is 2°3 above the average of 88 years, and 1°6 above that of 18 previous years. The first or winter quarter was much milder than usual, being 4°9 above the average of 88 years. The second or spring quarter was also warmer than usual, being 1°6 above the average. The third or summer quarter was also hotter than usual, being 3°3 above the average. The fourth or autumn quarter was a little colder than usual, being half a degree below the average of 88 years, and 1°3 below the average of 18 years. The mean daily range of temperature was 16°6, being 0°9 more than the average of 18 years. The humidity of the air was 80°, being two degrees less than the average. The mean height of the barometer was 29°772, a small fraction lower than usual. Rain fell to the amount of 25°9 inches, which was $\frac{6}{10}$ of an inch more than the average."

The whole of the above items are from the records kept at Greenwich, and borrowed by me from Dr. HILLIER's report of the sanitary condition of St. Pancras.

The meteorology of Gloucester is derived from the observations taken at the County Lunatic Asylum, and kindly furnished to me by my friend Dr. Williams. The average temperature for the year was 50°7. The mean daily range of temperature was 16°3. The mean height of the barometer was 29°875. The rain-fall was 23°85 inches, and it fell on 158 days in the year. The relative proportions of wind were—North, 81; East, 63; South, 59; West, 155.

FOR THE WHOLE DISTRICT.

MONTH.	Barometer.	Thermometer.	Deaths.	Births.
January	30.09	4280	77	117
February	29.96	4307	65	85
March	29.87	46°8	77	96
April	29.69	4694	55	74
May	29.89	54°1	51	68
June	29.84	6192	31	105
July	30.03	6795	56	89
August	29.87	63°0	55	89
September	29.77	5695	56	95
October	29.68	5095	35	92
November	29.92	4290	57	88
December	29.84	3509	57	108
Means :	29.87	5097	56	92.16

THE SANITARY CONDITION

OF THE

SUBURBAN DISTRICT

OF THE

GLOUCESTER UNION.

1859.

Through the kindness of Mr. Alfred Price I have been enabled to calculate the population of the suburban district in a mode similar to that employed in the urban division. The population, exclusive of the Hospital and Workhouse, amounted in 1859 to 10,051. The registered births were 320—154 males and 166 females; of these 4.37 per cent. were illegitimate. In 1858 the number of births was 305—153 males and 152 females. The registered deaths were 180—86 males and 94 females, not including the mortality in the Workhouse, &c.—of these deaths 7.22 per cent. were uncertified. In 1858 there occurred 141 deaths—71 males and 70 females. In 1859 the death-rate of the suburban district, including the mortality in the Workhouse, &c., was 19.56 per thousand; excluding that mortality 17.90 per thousand. In 1858 the death-rate on the latter calculation was 15.75, leaving a balance in favour of 1858 of 2.15. In comparing the death-rates of the urban and suburban districts on both calculations, the latter exceeds the former by 68 and '88 respectively.

The following table shews the distribution of deaths:-

PARISH OR HAMLET.	Males.	Females.	Both Sexes.
Barton St. Michael	22	24	46
Barton St. Mary	33	37	70
South Hamlet	10	4	14
North Hamlet	2	0	2
Wotton	6	6	12
Kingsholm St. Mary	4	14	18
Kingsholm St. Catherine	9	9	18
Deaths in Infirmary, from Subur- ban Parishes	7	2	9
Ditto in Alms-houses	1	1	2
Ditto in Workhouse	3	5	8
Totals	97	102	199

The death-rate in 1859 of the different parishes is as follows. It is compared with the death-rate in 1851. The parishes are placed in order of salubrity.

PARISH OR HAMLET.	Estimated Popula- tion in 1859.	Death- rate in 1859 per 1000.	1859	Death- rate on an average of 8 years	Above the Average.	Below the Average.
Kingsholm St. Mary Wotton North Hamlet Barton St. Mary Kingsholm St. Catherine Barton St. Michael South Hamlet	1158 160 3855 820 1786	10.02 10.36 12.50 18.15 21.70 25.71 29.35	18·53 32·81 18·75 37·76 28·04 31.35 48·21	13·92 15·44 36·23 18·10 12·15 19·61 30·34	 .05 9.55 6.10	3·90 5·08 · 23·73 · · · · · · · · · · · · · · · · · · ·

In the above table the death-rate of Kingsholm St. Catherine merits special attention. Containing but half the number of inhabitants, it has a death-rate double that of Kingsholm St. Mary, and an increase of 9.55 in the thousand over the average annual death-rate. This last fact clearly proves that some morbific influence has been especially potent during the last year. A very superficial enquiry served to shew what this influence was, namely, a foul open ditch meandering through the district, into which all the excreta of the inhabitants are poured, tainting the surrounding atmosphere with noisome exhalations, and by consequence holding out alluring inducements to zymotic diseases to enter, increase, and multiply. Every medical man whose professional avocations call him to the various residences is loud in its condemnation, which is re-echoed by every respectable inhabitant, and it is to be hoped that the guardians will remain no longer deaf to these most reasonable complaints, but will, as speedily as possible, remove so powerful an accessory to disease, and purify the locality from what at present cannot be described otherwise than a most shameful and unnecessary nuisance. As I remarked in my last report, the culverting of the Sweetbriar ditch has resulted in the diminution of the annual mortality from 1 in 25 to 1 in 39. The low death rate of the North Hamlet is evidently an exception to the general rule. When it is remembered that the lower class of houses in the Barbican, and other places in the vicinity of the County Prison, form a part of the district, less surprise will be manifested at the very large average annual deathrate in this hamlet. The drainage is very defective, the air usually breathed by the inhabitants is contaminated by the effluvia of surrounding stables, and the locality generally is sure to be visited by every epidemic visiting the city. These remarks apply with greater force to the houses and inhabitants of the suburban portion of the South Hamlet, inasmuch as up to a recent period their atmosphere was additionally contaminated by the Sudbrook.

The following table shews the distribution of births :-

PARISH OR HAMLET.	Males,	Females.	Total 1859.	Birth- rate 1858.	Birth- rate in 1859 per 1000,	Birth- rate 8 years.
Barton St. Michael	26	30	56	43.32	18.53	44.81
Barton St. Mary	66	78	144	32.54	32.81	44.67
South Hamlet	16	7	23	41.92	18.75	36.53
North Hamlet	3	0	3	35.71	37.76	52.73
Wotton	19	19	38	25.49	28.04	29.63
Kingsholm St. Mary	17	16	33	7.85	31.35	31.52
Kingsholm St. Catherine	7	16	23	35.00	48.21	27:38

Death-rate per 1000, 1859, whole district.	Birth-rate per 1000, 1859, whole district.	Birth-rate on 8 years average, whole district.	Proportion of births to deaths in 1859.
17.90	30.77	38.18	1.77 to 1.

Proportion of births to	Proportion of males to	Proportion of males to
deaths, 8 years.	females, 1859.	females, 8 years.
2.10 to 1.	1 to 1.07.	1.02 to 1.

The illegitimate births were in Barton St. Mary, 4 per cent.; in the South Hamlet, 4 per cent.; in Barton St. Michael, 5 per cent.; in Kingsholm St. Mary, 6 per cent.; and in Kingsholm St. Catherine, 8 per cent.

Zymotic Diseases. The deaths from these diseases in 1859 were 46. In 1858 there occurred 57. Five persons died from Small Pox, three of them under five years of age. From Diphtheria 9 deaths occurred, four males and five females; six under five years of age, three males and three females; two at six years, both females; and a male aged nineteen years.

MORTALITY FROM ZYMOTIC DISEASES.

PARISH OR HAMLET.	Deaths from all causes and all ages.	Deaths from Zymotic Diseases at all ages.	Diseases, under 5 years.	Per centage of Zymotic Mortality.	Annual per centage of Deaths at all ages from Zymotic Diseases, on an average of 8 years.
Kingsholm-StMary Barton-StMichael	18	7	5	38	19
Barton-StMichael	46	15	10	32	19
Barton-StMary	70	19	12	27	21
Kingsholm-StCatherine	18	4	4	22	19 21 25
South Hamlet	14	1	1	7	23

In the North Hamlet and Wotton no death took place.

The following table gives the ages at which deaths have occurred, and their various per centages:—

1859. 1858.

Under 5 years	81	 45.00	*******	48.93	
Between 5 and 10					
,, 10 and 15					
,, 15 and 20					
,, 20 and 30					
" 30 and 40		5.55	*********		
,, 40 and 50		9.44		2.12	
,, 50 and 60				2.83	
,, 60 and 70				6.38	
,, 70 and 80			12.22	11.34	
Over 80 years	11	 6.11)	12 22	11 01	

From these figures it is seen that as in the urban so also in the suburban districts, a similar increase and diminution obtains in the proportion of the deaths of old and young persons in last year as compared with the year before.

The per centage of the infant mortality in some parishes is shewn as follows, and compared with the annual per centage deduced from an average of

eight years : -

PARISH OR HAMLET.	Per centage of	Per centage of	Per centage of
	Infant Mortality,	Infant Mortality,	Infant Mortality,
	1859.	1858.	average 8 years.
Kingsholm St. Catherine Barton St. Mary Kingsholm St. Mary Barton St. Michael South Hamlet Wotton	61·11	31·02	39·28
	47·14	49·01	56·11
	44·44	66·06	54·83
	43·47	54·01	51·41
	35·71	33·03	41·52
	33·33	50·00	27·77
	44·20	47·03	45·15

Several facts of the highest importance come to light in the above calculations. In the first place, if further evidence be demanded of the existence of a materies morbi in Kingsholm St. Catherine, during last year, it is at once afforded by observing that the mortality among children under five years of age in that hamlet is double that of last year, or upwards of sixty per cent. Out of eighteen deaths eleven occurred to children under the age above mentioned, and of these eight had not completed their first twelve months of existence. Again, for the last eight years in the hamlets of Barton St. Mary and Michael, more than half of those who have annually died have been little children. Surely the complaints that are continually being made, respecting the foul condition of the Sudbrook, are proved by such evidence as this to be well There are houses in these hamlets where the children are born only to die, where the members of a family, one after the other, have been swept away by Diphtheria, Scarlet Fever, and Small Pox, or, surviving these attacks, fall into that condition of imperfect nutrition and gradual wasting which is tersely set forth in the certificates of their deaths as atrophy or marasmus. For this wanton destruction of life we shall possess the effectual remedy only when the suburbs are placed under similar sanitary regulations to the city. At present the urban population, blessed as it is by a supervision of localities daily increasing in strictness and regularity, is liable to a constant importation of disease from the suburbs, and is prevented from obtaining full benefits of those sanitary enactments for which it has been heavily taxed, by the "cordon" of impurity that surrounds it.

The following table shews the average age at death in the various parishes

for 1859 :-

PARISH.	Males.	Females.	Both Sexes 1859.	Both Sexes 1858.
Barton St. Mary	25.45	22.83	24.07	20.0
Kingsholm St. Catherine	32.77	17.33	25.05	32.7
Kingsholm St. Mary	28.25	24.18	25.61	14.6
South Hamlet	23.90	33.00	26.50	149
Barton St. Michael	23.31	29 83	26.71	27.5
Wotton	47.00	37.83	42.41	24.2

The average age at death in 1859, in the suburbs generally, not reckoning the deaths in alms-houses, &c. was 28.39 years. In 1858 it was 22.4 years.

RURAL DISTRICT.

1859.

In 1859, 252 children were born—138 males and 114 females; of these 3·17 per cent. were illegitimate. In 1858, 248 children were born—124 males and 124 females. In 1859, 134 persons died—61 males and 73 females: in the preceding year, 124 died—62 males and 62 females. These numbers do not include the mortality in the workhouse-hospital of paupers or patients admitted from rural parishes; of these deaths, 23·88 per cent. were uncertified.

I have estimated the population in the rural district in 1859, at 8349, the death-rate on that estimate will accordingly be 16.04 per thousand.

The following table shews the distribution of deaths:-

PARISH.	Males.	Females.	Both Sexes.
Hempstead	4	8	12
Quedgeley	6	5	11
Elmore	0	1	1
Whaddon	1	1	2
Tuffley	0	1	1
Matson	0	0	0
Upton St. Leonards	4	6	10
Brockworth	5	4	9
Hucclecote	2	4	6
Barnwood	4	2	6
Churchdown	7	9	16
Down Hatherley	1	1	2
Norton	5	1	6
Twigworth	2	2	4
Longford St. Mary	3	5	8
Longford St. Catherine	2	3	5
Sandhurst	4	3	7
Ashelworth	8	7	15
Highnam	1	5	6
Lassington	0	1	1
Over and Linton	0	0	0
Maisemore	2	4	6
Deaths in Infirmary from rural		1	all I'm
parishes	2	0	2
Deaths in Workhouse	5	5	10
	68	78	146

The death-rate of the different parishes in 1859, compared with the death-rate on an average of 8 years, is as follows:—

	tion in 1859.	rate in 1859 per 1000.	average of 8 years per 1000.	A momo coo	Below the Average.
Elmore	425	2.35	12.99		10.64
Tuffley	140	7.14	14.22	91:	7.08
Upton St. Leonards	1243	8.04	16.91		8.87
Down Hatherley	191	10.47	12.18		1.71
Lassington	86	11.62			
Maisemore	507	11.83	12.51		.68
Norton	503	11.92	15.60		3.68
Hucclecote	494	12.14	12.85		71
Sandhurst	532	13.15	17.05		3.90
Whaddon	130	15.38	18.00		2.62
Barnwood	386	15.54	19.13		3.59
Brockworth	459	19.60	20.36		.76
Twigworth	200	20.00	11.65	8:35	GEST AT
Longford St. Catherine	221	22.62	14.08	8:54	17 12 00
Ashleworth	636	23.58	16.31	7.27	
Longford St. Mary	339	23.59	22.17	1.42	.,
Churchdown	631	25.35	18.02	7.33	
Quedgeley	432	25.46	12.30	3.16	
Highnam	208	28.84	17.92	10.92	1 10000
Hempstead	352	34.09	27.80	6.29	

* Only 4 deaths in 8 years.

In Matson, Over, and Linton, no death occurred in 1859.

From this table it will be at once perceived that many of the rural parishes have an average annual death-rate as high as and even higher than the most crowded parishes in the urban division; the parishes are mostly situated in the plain between Churchdown Hill and Robin's Wood Hill, and between those hills and what may be called the 'river' parishes or parishes lying on the Severn. It is far from improbable that the land, in some instances, is insufficiently drained, and becomes in the rainy seasons so saturated with water as to permit the formation of numerous pools, the moisture from which must tend to keep the atmosphere in an unduly humid condition; but I have been informed on trustworthy authority, that in many places very little regard is paid to the removal of nuisances, and in some localities, where physically everything conduces to health, such horrible collections of decomposing organic matter exist, that not only do they equal, but absolutely exceed what was exhibited in the worst courts of Deacon Street and the Island a twelvemonth ago. One noteworthy example occurred in the parish of Churchdown where Typhoid fever broke out in a semi-detached house, whose rooms were thoroughly impregnated with the effluvia from pig's wash and night soil, and one or two of its inhabitants died. The disease spread to the next dwelling, thence farther up the village, and was also taken into a neighbouring parish by one of the nurses. The expense incurred for wine, medicine, and nursing, considerably augmented the ordinary parochial relief, and would not have been required if the authorities of the place had insisted on the removal and prevented the occurrence of the nuisances referred to. By the amended "Nuisances Removal Act," the guardians of any parish have powers similar to those of the Inspector of a Local Board of Health, and for the future they must be held responsible for every disease generated or fostered by neglect of sanitary precautions.

The rural parishes may be roughly divided into "Hill" parishes, as Tuffley, Upton St. Leonards, Norton, and Churchdown, with an average mortality of 16·18 in the thousand—into "river" parishes as Maisemore, Sandhurst, Ashleworth, Longford-St.-Catherine and Elmore, with an average mortality of 14·58 in the thousand—and into "parishes of the plain," which include all the remaining ones, Hempstead excepted, with an average mortality of 16·28 in the thousand.

I have excepted Hempstead on the same grounds as last year, namely, its approach to a suburban district in containing two rows of contiguous houses, Alma Place and Clarence Town. In my report for 1858, I styled these houses densely populated; subsequent information, however, kindly communicated to me by the Rev. Mr. Lysons, has shewn that I was in error in styling them 'densely' populated. I am told that the number of inhabitants is constantly varying, but I apprehend since the formation of the Wagon Company, the houses have been generally inhabited, and consequently the space occupied bears a closer approximation to suburban than to rural districts.

The following table shews the distribution of births :-

PARISH.	Males.	Females.	Total 1859.	Birth- rate 1859,	Birth-rate 8 years.
Old Passall There's in 1810			1000.	per 1000.	o years.
Elmore	3	6	9	21.31	25.04
Tuffley	1	1	2	14.28	32:37
Upton	18	13	31	24.93	22.44
Hatherley	2	2	4	20.94	28.46
Lassington	0	1	1	11.62	18.07
Maisemore	10	4	14	27.61	34.25
Norton	7	2	9	17.89	29.38
Hucclecote	9	5	14	28.34	22.05
Sandhurst	11	14	25	46.99	38.01
Whaddon	3	3	6	46.15	28.96
Barnwood	9	7	16	41.45	26.53
Brockworth	8	7	15	32.67	34.88
Twigworth	3	0	3	15 00	23*31
Longford St. Catherine	2	1	3	13.57	24.03
Ashleworth	8	3	11	17.29	24.66
Longford St. Mary	7	11	18	53.09	39.75
Churchdown	7	14	21	33.28	33.09
Quedgeley	15	7	22	50.92	28:24
Highnam	4	2	6	28.84	33.58
Hempstead	11	. 10	21	59.95	50.66

In Matson, no birth took place, and but one each in Lassington and Over.

Death-rate per 1000,	Birth-rate per 1000,	Birth-rate per 1000,	Proportion of births to
1859, whole district.	1859, whole district.	8 years.	deaths in 1859.
16.04	28.77	21.74	1.86 to 1.

Proportion of births to	Proportion of males to	Proportion of males to
deaths, 8 years.	females, 1859.	females, 8 years.
1.84 to 1.	1.21 to 1.	1.05 to 1.

The illegitimate births were 8 per cent. in the parish of Sandhurst, 9 per cent. in Ashleworth and Churchdown, and 12 per cent. in Barnwood. The only birth in Lassington was illegitimate.

The deaths from Zymotic Diseases in 1859, were 24. In 1858 there occurred 17 deaths. Three persons died from Small Pox, eight from Typhoid and Typhus Fever, and one a female of 8 years of age of Diphtheria.

MORTALITY FROM ZYMOTIC DISEASES.

PARISH.	Deaths from all causes at all ages.	Deaths from Zymotic Diseases, all ages.	Per centage of Zymo- tic mortality.	Deaths from Zymotic Diseases, under 5 years.
Hempstead	12	5	41	3 2 2 2
Churchdown	16	5	31	2
Ashleworth	15	4	26	2
Quedgeley	11	4 2 2	18	2
Hucclecote	6	2	33	0
Twigworth	4	2	50	0
Longford St. Mary	8	1	12	0
Sandhurst	7	1	14	1
Highnam	4 8 7 6	i	16	0
Maisemore	6	1	16	0

In no other parish was there any death from Zymotic Disease in 1859.

The following table gives the ages at which deaths have occurred and their

The following table gives the ago	es at which	deaths hav	e occurr	ed and their
various per centages :		1859.		1858.
Under 5 years 4	0	29.85		32.26
Between 5 and 10	4	2.98		4.03
" 10 and 15	5	3.73		2.41
,, 15 and 20	2	1.49		5.22
" 20 and 30	8	5.97		7.25
	0	7.46		4.83
	5	3.73		6.45
	1	8.28		5.64
	6	11.94)	22.38	20.16
Over 80 years 1	4	10.44	22 00	20 10

The per centage of the infant mortality in some parishes is shewn as follows, and compared with the annual per centage of the last eight years:—

PARISH OR HAMLET.	Per centage of	Per centage of	Per centage of
	Infant Mortality,	Infant Mortality,	Infant Mortality,
	1859.	1858.	8 years.
Hempstead Ashleworth Upton St. Leonards. Churchdown Quedgeley. Hucclecote Barnwood. Maisemore Twigworth Norton Highnam Sandhurst Longford St. Mary	58·33 46 66 40·00 37·50 36·36 33·33 33·33 25·00 16·66 14·28 12·50	46.15 42.85 35.29 33.33 	49·25 32·50 33·33 37·93 29·26 30.61 29·82 28·57 5·55 38·98 24·13 31·42 29·31

The following table shews the average age of death of both sexes in 1859 :-

PARISH.	Males.	Females.	Both sexes 1859.	Both sexes 1858.
Hempstead	36.20	21.62	26.58	24.61
Hucclecote	18.50	35.25	29.66	66.05
Ashleworth	39.62	20.71	30.80	21.28
Barnwood	42.50	10.50	31.83	45 08
Churchdown	30 57	33.33	32.12	35.53
Upton St. Leonards	23.00	42.33	34.60	35.17
Quedgeley	24.16	48.20	35.00	
Highnam		43.20	36.16	48.00
Sandhurst	22.50	58.00	37.71	45.33
Maisemore	38.50	39.75	39.33	49.72
Longford St. Mary	55 33	38.00	44.50	25.85
Twigworth	15.50	81.00	48.25	
Norton	52.00		57.66	30.33
Longford St. Catherine	44.00	71.66	60.60	
Brockworth	63-00	59.25	61.33	34.28

The average age of the parishes deduced from the above figures is 40.40.

[TABLE I.]
Shewing the Causes of Death at different Ages during the Year 1859.

Snewing the Caus	00 0	J. 2	000010	1		.00			9			J				-	00	
CAUSES OF DEATH.	All ages.	Sex.	Total under 1 year.	1	2	3	4	5—	10-	15-	25-	35-	45-	55-	65-	75-	85-	95 and upwards.
Class I.—ORDER I. 1 Small Pox	1	5м 5ғ 7м	 2 1	1 1 4	1			1		·· i	1	1	1		::		:::	
2 Measles		3F 7M 6F	î	3	3	1 2		1	1	::		::					:::	
4 Hooping Cough	1	1M 0F 4M	1					2								::	::	
5 Croup	6 { 21 {	2F 5M 16F		``i	1 1 1	1 1	2 2	8	2	··· 1				::	::	::		
7 Typhus	1	14M 14F 0M	2	1				4 3	2	2 4	2	2	1 2	1	``i	`i		
8 Erysipelas 9 Metria	2 { 3 {	2F 0M 3F	::							::		2				2		
10 Carbuncle	1 {	0 M 1 F 2 M	··· i	::	::								1					
11 Influenza 12 Diarrhæa	3 { 38 {	1 _F 16 _M 22 _F	1 9 18	3	1									: : : : :	1 3 2	2		
13 Remittent Fever 14 Rheumatic Fever	1 {	1 _M 0 _F 1 _M	::					1			1							
Order II.	3 {	2F	1						1					**		••		
1 Syphilis	5 {	3м 2ғ	3						::								::	
2 Scurvy	1{	0 M										1						
1 Hæmorrhage	1 {	0м 1ғ								··.								
2 Dropsy	1	3m 5F 4m	1										::	1 1 1	1	3		
4 Mortification	1	4 г 3 м 1 г	1					::				1 1		`i	1			
5 Cancer	12 {	lm llr lm								1		2	4	3	1 1 1			
ORDER II.		0F																
1 Scrofula	6 { 5 {	3м 3ғ 2м		`i	···			2	1	1			1			::		
z ranes mesenterica	1	3F	1	1				1										

[TABLE I.—continued.]

Shewing the Causes of Death at different Ages during the Year 1859.

				_												-		-
CAUSES OF DEATH.	All ages.	Sex.	Total under 1 year.	1	2	3	4	5—	10-	15-	25-	35-	45-	55-	65-	75-	85-	95 and upwards.
3 Phthisis 4 Hydrocephalus	-	31m 32F 7m 6F	2 2	 4 3	 1	1	 1	1	1 3 	4 3 	10 3	5 16 	3 4	5 2	· i		T: 3: :3	4:3::0
Class III.—Order I. 1 Cephalitis 2 Apoplexy 3 Paralysis 4 Chorea 5 Epilepsy	5 { 7 { 27 { 1 { 3 {	3M 2F 1M 6F 16M 11F 0M 1F 2M 1F	`i		 			1	2		1 1 2	 1 2 1 	 1 3 	1 1 3			 	
6 Convulsions 7 Disease of Brain ORDER II. 1 Disease of Heart		18M 15F 11M 5F	14 8	2 4	1 1	1 1	:::::::::::::::::::::::::::::::::::::::	··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··	1 1 1	 1	2 1		 1 1 2 3	1 1 3 7	 2 6 5	 1 	10	:::::::::::::::::::::::::::::::::::::::
ORDER III. 1 Bronchitis 2 Pleurisy 3 Pneumonia 4 Asthma 5 Emphysema	37 { 3 { 3 6 { 6 { 2 {	16M 21F 2M 1F 17M 19F 3M 3F 1M 1F	2	1 4 7		·i ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·				··· ·· · · · · · · · · · · · · · · · ·	··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··	1 2	1 2 1 1	3 4 1 2 1 	2 8 2 2 2 2	7 6 1 	1	
6 Disease of Lungs ORDER IV. 1 Gastritis 2 Enteritis 3 Peritonitis 4 Ulcerated Intestines	1 { 1 { 4 { 2 { 3 {	0M 1F 1M 0F 1M 3F 1M 1F 1M 2F		::									1					
5 Hernia	2 { 1 {	2M 0F 1M 0F	:: :1 ::	::	::		::		::	1 	.:	::	::	1		::	::	

[TABLE I.—continued.]
Shewing the Causes of Death at different Ages during the Year 1859.

ioner ing the same		2										0						
CAUSES OF DEATH.	All ages.	Sex.	Total under 1 year.	1	2	3	4	5—	10-	15-	25-	35-	45-	55-	65-	75-	85-	95 and upwards.
7 Disease of Stomach	1{	0м																
8 Disease of Bowels	1	1F 0M	::	::		::								1	::			::
9 Hepatitis	1	lF lM	::		::	::		::		1			1		::			::
10 Jaundice	2 {	0F 1M	::	::	::	::		::	::	::	::	1						
11 Disease of Liver	95	lF 4M	1	::	::	::							2		2			::
II Disease of Liver	1	5F								1		3	1					
ORDER V.												H						
1 Nephria	4 {	3м 1ғ	::		::	::				1		1		1				
2 Cystitis	2	2M 0F	::	::						::	::				1	1		
3 Disease of Kidney	1	1M OF												'n				
		02																••
ORDER VI.	,	0.,																
1 Ovarian Dropsy	2	0м 2ғ			::	::	::	::	::	ï				'n	::			
2 Uterine Disease	1{	0M 1F	::			::			::		1		::			::		::
ORDER VII.																		
1 Disease of Joints	2{	0м																
	2	2F 1M	1		::	::	::	::		1			1	::		::	::	
2 Cyanosis	-1	1F								1								
Class IV.—ORDER I.																		
1 Premature Birth&)	20 [13м	13														Jan	
1 Premature Birth& Congenital Debility	30 {	17F	16	1	::													
ORDER II.					R							7		-		I E		
1 Atrophy	43 {	25M	19	3	;	1								1	1			
H	-	lor	14	1	1		1	••							1		••	••
ORDER III.		15.												-01				
1 Old Age	42 {	27F		::			::			::	::		::	1 2	4 2	5 13	5 9	·· ₁
Class V.—ORDER I.										1. 1				100				
ACCIDENT OR NEGLIGENCE.	-										Till I	4						
1 Burns and Scalds	6.5	Зм	::				1	1				1						
The state of the s	1	3F				2	1							::				
	-				_		62											

[TABLE I.—continued.]

Shewing the Causes of Death at different Ages during the Year 1859.

CAUSES OF DEATH.	Sex.	Total under 1 year.	2	3 4	5 10-	15- 25-	35- 45-	55- 65	75-	95 and upwards.
2 Suffocation 3 Drowning 4 Fracture 5 Wounds	2 { 1M 1F 9 { 8M 1F 3 { 2M 1F 1 M 0F	1 1 			2	3	 1 1	 1 1 1		i
ORDER II.—SUICIDE. 1 Cuts and Stabs 2 Drowning 3 Hanging ORDER III.	1 { 1 _M 0 _F 1 M 0 _F 1 { 0 _M 1 _F 1 { 1 _M 1 _F 0 M 1 _F 1 } 0 M 1 _F 1		:: :			 i	1	i	:::::::::::::::::::::::::::::::::::::::	
1 Other violent causes not specified 2 Cause not specified } 2 Cause not specified or ill-defined }	5 { 4M 1F 8 { 6M 2F 672 328M 344F	1 1 155 50		13 10	1 1 1 35 20	:: :: :- :- 39 35	1 1 1 3 1 55 45	1	53	:: :: :: :: :: :: :: :: :: :: :: :: ::

Register of Births and Deaths in the Urban, Suburban, and Rural Divisions of the Gloucester Union, for the 52 Weeks ending 1st day of January, 1860. [TABLE 2.]

			-	-	-	-	-
phtheria.	From Di	10	6	1	1	:	21
w Fever.	From Low Fever.		00	00	හ	1	30
arrhea.	From Diarrhea.		13	9	:	:	36
Cough.	TT gaiqooH	1	0	0	:	:	-
Fever.	Bearlet	4	1	63	:	:	13
leasles.	From 3	7.0	0	1	4	:	10
	Er	Ç1	5	8	:	£:.,	10
l causes 5 years 26.	ls morT sobnu s lo	122	78	40	11	2	253
	M.&F.	293	180	184	46	19	673
DEATHS	F.	151	94	7.3	20	9	344
I	M.	142	98	19	26	13	328
	M. & F.	523	320	252	12		1107
BIRTHS	E	258	166	114	10	:	543
40 9010	M.	265	154	138	7	:	564
Estimated Popula- tion in 1859.		17209	10001	8349	277	221	36107
		:	:	:	:	:	:
	:	:	:	:	ses	:	
	:	:	:	:	Infirmary and Alms-houses	Trs	
	DIVISION.	:	:	:		A ba	TOTALS
					Workhouse	ary al	T
		Urban	Suburban	Rural	orkl	firm	

[TABLE 3.]

FIRST OR WINTER QUARTER. 1859.

Register of Births and Deaths in the Three Divisions of the Gloucester Union, for the 13 Weeks ending 2nd day of April, 1859.

				_	_	_	
phtheria.	From Dil	9	4	0	0		10
w Fever.	1	-	1	1	:	4	
arrhoa.	From Di	4	-	-	0	:	9
. Cough.	Hooping	0	0	0	0	:	0
	Bearlet	4	7	C1	0		13
leasles,	From A	C3	0	0	63	:	4
	Fre	61	4	9	0		6
years y	la morT 3 rabnu 8 lo	41	333	13	9	1	94
M ALL S.	M.&F.	95	64	45	17	9	224
DEATHS FROM DISEASES	E.	56	36	28	6	65	132
DEAT!	M.	36	87	17	00	8	92
A 12	M.&F.	123	16	78	55		297
HS	1		1	194		12 15	533
HELL	E	65	45	34	80	e:	147
BIRT	M. F.	58 65	46 45	44 34	5 8		150 147
	-	124					
	M.	28	46	44	67	221	150
1 Popula-	M.	17209 58	10051 46	8349 44	277 2	: 540	36107 150
-aluqoq f	Estimated tion in	17209 58	10051 46	8349 44	277 2	: 540	36107 150
1 Popula-	Estimated tion in	17209 58	10051 46	8349 44	277 2	: 540	36107 150
-aluqoq f	Estimated tion in	17209 58	10051 46	8349 44	277 2	: 540	36107 150
-aluqoq f	Estimated tion in	17209 58	10051 46	8849 44	277 2	:	36107 150

[TABLE 4.]

SECOND OR SPRING QUARTER. 1859.

Register of Births and Deaths in the Three Divisions of the Gloucester Union, for the 13 Weeks ending 2nd day of July, 1859.

	-		_	-	_	Marie Santa
From Diphtheria.			0	1	:	8
From Low Fever.			-	:	-	1
From Diarrhoa.			0	:	:	-
Fro Hooping	-	0	0	:	:	1
Scarlet	0	0	0	:	:	0
Ltom J	0	0	1	1	:	10
Erc	0	1	0	:	:	-
Is morT 3 rabnu 8 rabnu 9 rabnu	24	13	10	4	:	51
M.& F.	09	38	26	13	1	138
F.	59	17	12	7	0	65
M.	31	21	14	9	1	73
M.&F.	182	72	47	4	:	255
F.	77	34	21	61	:	134
M.	55	38	56	63	:	121
Estimate tion in	17209	10001	8349	277	221	36107
	:	:	:	-	:	:
		:	:	:	nses	-:
DIVISION.			:	:	Alms-ho	ALS
	:	:	:	se	and 1	TOTALS
The state of the s	Jrban	Suburban	Rural	Workhou	nfirmary	
	Estimate tion in W. &F. M. &F.	Estimate tion in Hrom all under to Small under	F. M.&F. M. F. M.&F. M. &F. M. &	17209 55 77 132 31 29 60 24 0 Hrom Di Hrom Di Shahl 10051 38 34 72 21 17 38 13 1 0 0 0 1 3 Carlet 8849 26 21 47 14 12 26 10 0 0 0 1 3 From Di Hrom Di	Tromatic From all From all From Diagram 10051 38 34 72 21 17 38 13 1 0 0 1 0 1 10051 38 34 0 2 4 0 0 1 0 0 0 1 0 0 0 1 0 0 0 0 1 0	Heatimatic tion in F. M.&F. M. F. M.&F. M.&F. M. R.F.

[TABLE 5.]

THIRD OR SUMMER QUARTER. 1859.

Register of Births and Deaths in the Three Divisions of the Gloucester Union, for the 13 Weeks ending 1st day of October, 1859.

			_	-	-	-	_						
phtheria.	From Diphtheria,			:	1	:	5						
w Fever.	From Low Fever.		1	9	:	:	6						
-seodrasi	From Diarrhoea		From Diarrhea.		From Diarrhoea.		From Diarrhosa.		12	4	:	:	58
congh.	Hooping	:	:	:	:	:	:						
Fever.	Scarlet		:	:	:		:						
leasles.	I mora	:	:	:	-	:	-						
om Pox.	Small	:	:	:	:	:	:						
g years	3 10	59	23	11	-	:	64						
8 8	M.&F.	11	48	33	8	7	167						
DEATHS.	F.	30	25	19	es	01	62						
П	M.	41	23	14	10	5	88						
2 18	M. & F.	181	79	59	G1		271						
HETHS.	다.	58	47	27	0	į.	132						
	M.	73	35	35	. 2	:	139						
Popula-	Estimated Popula- tion in 1859.		10051	8349	277	221	36107						
			:	1	:	:							
			:	:	:	ses	:						
	:	:	:	:	Jms-hou	ALS							
	DIVISION.	:	:	:	9	and A	TOTALS						
District of the last		Urban	Suburban	Rural	Workhouse	Infirmary and Alms-houses							

[TABLE 6.]

FOURTH OR AUTUMN QUARTER, 1859.

Register of Births and Deaths in the Three Divisions of the Gloucester Union, for the 13 Weeks ending 1st day of January, 1860.

				_	_		
phtheria.	From Diphtheria.			1	:	:	89
w Fever.	5	8	:	61	:	10	
arrhoea.	From Di	-	:	1:	:	-	-
mo Cough.	Fr SaidooH	:	:	:	:	:	:
	Bearlet	:	:	:	:	:	1
leasles.	From J	;	:	:	:	:	:
Pox.	Enall	:	:	:	:	:	:
years -	ls morY 3 rabnn 8 lo	28	6	9	:	1	4
1 8	M.& F.	70	30	30	00	5	143
EATHS	E.	36	15	14	1	1	67
T ON	M.	34	15	16	7	4	92
8. 3	M.&F.	187	78	89 .	No al		284
IRTHS.	8 5	58	40	32	0	:	130
F	M.	79	88	36	1	:	154
Popula-	17209	10001	8849	277	221	36107	
1	:	:	:	-	1	-	
1	:	:	. :	:	səsno	:	
	:	:	:	.:	Alms-h	TOTALS	
	DIVISION.	:	:	:	ise	r and	TOT
THE REAL PROPERTY.		Urban	Suburban	Rural	Workhouse	Infirmary and Alms-houses	

[TABLE 7.]

Births, Deaths, and Temperature in the Three Divisions of the Gloucester Union during the Four Quarters of 1859.

	Number of Deaths. 1859.	Mean Temp. of Air.	Number of Deaths. 1858.	Mean Temp. of Air.	Number of Births. 1859.	Number of Births. 1858.	Avera	Mean Temp. of Air.	years years
First Quarter	201	44.1	141	39.4	291	280	181	41.2	282
Second Quarter	124	53.9	109	54.7	251	279	122	54.5	271
Third Quarter	152	62.3	146	60.3	269	259	146	61.5	268
Fourth Quarter	130	42.8	195	44.7	283	263	175	45.2	271
Sum of the 4 Quarters	607	50.7	591	49.7	1094	1081	624	50.4	1092

This Table does not include the Births and Deaths in the Union Workhouse, the Infirmary, and Alms-houses.

[TABLE 8.]

Table comparing the Average Age at Death, and the per centages of the Mortality, under 5 and over 70 years of age, in the Three Divisions of Gloucester Union.

	DIVIS	ION.		Average Age at Death in Years.	Per Centage of Mortality under 5 Years	Per Centage of Mortality over 70 Years.
Urban			 	32-23	41.63	13•99
Suburban			 	28.39	45.00	12-22
Rural			 	40•40	29.85	22:38

This Table does not include the Births and Deaths in the Union Workhouse, the Infirmary, and Alms-houses.

E. POWER & SON, PRINTERS, WESTGATE STREET, GLOUCESTER.



