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Wellcome Collection  
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London NW1 2BE UK  
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FIFTH ANNUAL REPORT,  
1862.

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THE  
SANITARY CONDITION

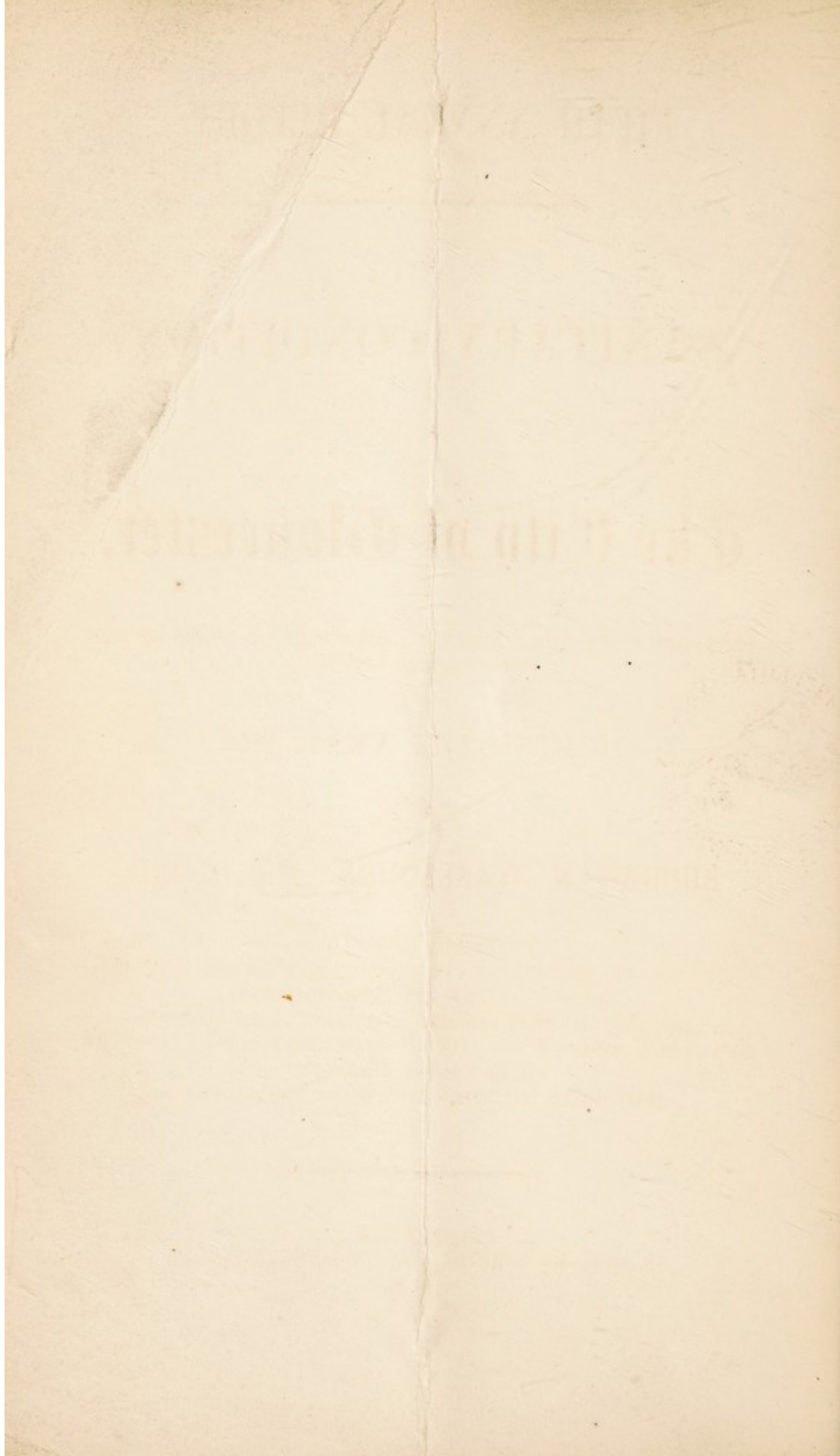
OF

Gloucester and its Vicinity.

BY

DR. WASHBOURN.

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# FIFTH ANNUAL REPORT.

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## THE SANITARY CONDITION

OF

# The City of Gloucester,

TOGETHER WITH THE SUBURBAN AND RURAL DIVISIONS OF THE  
GLOUCESTER UNION,

DURING THE YEAR 1862.

BY


BUCHANAN WASHBOURN, M.D., LOND.,

UNIVERSITY SCHOLAR ;  
MEMBER OF THE ROYAL COLLEGE OF PHYSICIANS, LONDON ;  
FELLOW OF THE STATISTICAL SOCIETY,  
AND OF THE ANTHROPOLOGICAL SOCIETY OF LONDON ;  
HONORARY MEMBER OF THE METROPOLITAN ASSOCIATION OF  
OFFICERS OF HEALTH ;  
PHYSICIAN TO THE GLOUCESTER INFIRMARY.

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GLOUCESTER :  
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1863.





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THE SANITARY CONDITION  
OF  
THE URBAN DISTRICT  
OF THE  
GLOUCESTER UNION.  
1862.

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THE population in 1862 was estimated at 16,332—7638 males and 8694 females; including the inmates of the Infirmary, Workhouse, and Almshouses, at 16,596. The registered births were 629—347 males and 282 females; of these 5·76 per cent. were illegitimate. The registered deaths in 1862 were 324—157 males and 167 females; of these deaths 6·48 per cent. were uncertified. These numbers do not include the mortality in the Workhouse, Infirmary, and Almshouses. The death-rate of the city-proper, including the deaths in the above mentioned Institutions, was 21·27 per thousand, exclusive of that mortality 19·83 per thousand. At this rate there would be 50 living to every death, and under the best sanitary conditions there should be 58 living to every death.

The low rate of mortality exhibited by the above figures must be a source of congratulation to every one who takes an interest in the sanitary well-being of his fellow citizens; and to those who view with abhorrence what they term the

“lavish expenditure” upon matters relating to public health, it may furnish some amount of consolation that this diminished death-rate means likewise a diminished amount of illness, a diminished amount of incapacity for work among the labouring classes, and by consequence a diminished amount of taxation in the garb of Poor-Rates.

The following table shews the distribution of deaths:—

PARISH or HAMLET	Males.	Females.	Under 5.	5 to 10	10 to 15	15 to 20	20 to 30	30 to 40	40 to 50	50 to 60	60 to 70	70 to 80	Over 80	Both Sexes.	Average 11 years.
St. John . . .	40	49	{ 19M 20F	...	...	...	2	4	1	5	4	4	1	89	88.27
St. Nicholas (with Pool Meadow . . .)	33	21	{ 13M 6F	1	1	1	2	2	4	4	2	3	...		
South Hamlet . . .	15	21	{ 5M 8F	1	1	1	2	1	...	2	...	2	...	36	23.90
St. Catherine . . .	10	20	{ 5M 5F	...	...	...	1	1	...	2	2	1	...		
St. Mary-de-Lode (with Coll. Prec.) }	19	9	{ 7M 4F	...	...	...	2	2	3	2	1	1	1	28	31.63
St. Michael . . .			11	7	{ 3M 2F	...	1	1	2	1	1	...	2		
Holy Trinity . . .	9	6	{ 1M 3F	2	...	...	1	1	1	1	...	1	1	15	10.45
St. Mary-de-Crypt	3	8	{ 3M 3F	...	...	...	1	1	...	2	...	1	...		
Barton St. Mary . . .	3	7	{ 2M 1F	...	...	...	1	...	...	1	1	2	1	10	13.36
St. Owen . . .	5	4	{ OM 1F	...	1	...	1	...	...	1	1	2	...		
St. Aldate . . .	2	6	{ 2M 3F	...	...	...	...	...	1	1	...	1	...	8	15.90
Barton St. Michael	2	6	{ OM 2F	...	...	...	...	...	...	1	1	1	...		
Littleworth . . .	3	2	{ 2M OF	...	1	...	...	...	1	...	1	...	...	5	8.81
St. Mary-de-Grace	2	1	{ 1M OF	...	...	...	...	...	1	...	1	...	...		
Totals . . .	157	167	{ 63M 58F	4	4	3	11	14	12	15	11	17	3	324	342.65
Deaths in Infirmary from City Parishes }	3	2	{ 12M ...	8	10	9	20	25	24	27	34	38	8		
Ditto in Almshouses			1	3	{ ... ...	...	...	...	...	...	...	...	1	2	...
Ditto in Workhouse	11	9	{ 2M OF	...	...	...	2	...	1	2	3	1	...	20	
Totals . . .	172	181	{ 65M 58F	4	4	4	13	15	13	17	15	18	4		

The death-rate in 1862 of the different Parishes is as follows; it is compared with the average annual death-rate for the last eleven years:—

Position 1862.	PARISH or HAMLET	Estimated Population 1862.	Death-rate 1862 per 1000.	Death-rate on 10 years per 1000.	Above the Average.	Below the Average.	Position 1861.
1	Littleworth .....	501	9.97	19.49	...	9.52	5
2	St. Aldate .....	710	11.26	20.83	...	9.57	2
3	St. Mary-de-Crypt ...	953	11.54	18.23	...	6.69	4
4	St. Mary-de-Grace ...	251	11.95	12.30	...	.35	14
5	Barton St. Mary .....	810	12.34	16.67	...	4.33	7
6	St. Michael .....	1372	13.11	14.52	...	1.41	1
7	St. Owen .....	651	13.82	30.65	...	16.83	9
8	Barton St. Michael ...	383	20.88	20.20	.68	...	10
9	South Hamlet ... ..	1634	22.03	17.41	4.62	...	6
10	St. Nicholas (with } Pool Meadow) }	2410	22.40	21.61	.79	...	8
11	St. Catherine .....	1270	23.62	24.36	...	.74	13
12	St. Mary-de-Lode } ... (with Coll. Prec.) }	1167	23.99	25.06	...	1.07	12
13	St. John.....	3681	24.17	22.74	1.43	...	11
14	Holy Trinity .....	539	27.82	18.17	9.65	...	3
		16332	17.71	20.16			

The following table shews the distribution of births:—

PARISH OR HAMLET.	Males.	Females.	Both Sexes.	Both Sexes 11 years.
St. John.....	79	74	153	142
St. Nicholas (with Pool } Meadow) .....	67	33	100	92
South Hamlet .....	35	27	62	42
St. Catherine .....	31	25	56	50
St. Mary-de-Lode (with } College Precincts) }	29	19	48	45
St. Michael .....	20	21	41	36
Barton St. Mary .....	17	18	35	31
St. Mary-de-Crypt .....	17	16	33	26
Barton St. Michael .....	12	10	22	14
St. Aldate.....	9	12	21	25
St. Owen .....	11	9	20	18
Holy Trinity.....	6	9	15	15
Littleworth .....	6	6	12	14
St. Mary-de-Grace .....	8	3	11	5
	347	282	629	555

The birth-rate in 1862 of the different Parishes is as follows; it is compared with the average annual birth-rate for the last eleven years:—

Position. 1862.	PARISH OR HAMLET.	Estimated Population, 1862.	Birth Rate, per 1000	Birth Rate, 11 yrs. per 1000.	Above the Av'r'ge	Below the Av'r'ge	Position 1861.
1	Barton St. Michael .....	383	57.44	37.12	20.32		8
2	St. Catherine .....	1270	44.09	41.63	2.46		5
3	St. Mary-de-Grace .....	251	43.82	20.29	23.53		13
4	Barton St. Mary .....	810	43.20	38.81	4.39		2
5	St. John .....	3681	41.56	36.70	4.86		4
6	St. Nicholas (with Pool } Meadow)..... }	2410	41.49	35.02	6.47		11
7	St. Mary-de-Lode (with } College Precincts).... }	1167	41.13	36.37	4.76		3
8	South Hamlet .....	1634	37.94	31.13	6.81		7
9	St. Mary-de-Crypt .....	953	34.62	26.89	7.73		10
10	St. Owen .....	651	30.72	31.26		.54	6
11	St. Michael .....	1372	29.88	27.11	2.77		12
12	St. Aldate .....	710	29.57	33.32		3.75	9
13	Holy Trinity .....	539	27.82	26.55	1.27		14
14	Littleworth .....	501	23.95	31.37		7.42	1
		16332	37.65	32.39			

The illegitimate births were, in

St. John .... 15	St. Mary-de-	South Hamlet ... 1
St. Catherine 6	Lode ... 2	St. Mary-de-Crypt 1
St. Nicholas.. 4	St. Aldate ... 2	Union ... .. 9
St. Michael .. 3	Barton St. Mary 2	

*Zymotic Diseases.*—The deaths from these diseases in 1862 were 39. No death took place from Small Pox; but Measles proved fatal in 1 case, and Fever in 19 cases. Diphtheria proved fatal in 2 cases. The deaths from Diarrhœa were 6. Hooping Cough proved fatal in 2 cases.

The following table gives the per-centage of death at various ages:—

	Under 5 yrs.	5—10	10—15	15—20	20—30	30—40	40—50	50—60	60—70	70—80	Over 80
Males .....	40.12	2.54	2.54	1.91	7.00	8.91	7.64	9.55	7.00	10.82	1.91
Females ...	34.73	2.33	3.59	3.59	5.38	6.58	7.18	7.18	13.77	12.57	2.99
Both Sexes .	37.34	2.46	3.08	2.77	6.17	7.71	7.40	8.33	10.49	11.72	2.46
Both Sexes } av. 4 yrs }	43.21	4.58	1.91	2.91	5.99	7.13	6.18	7.27	9.53	8.75	3.30

## 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.	Average per-centage, 4 years.
South Hamlet .....	36	2	2	5	21
St. Catherine .....	30	2	1	6	18
St. John .....	89	9	5	10	18
Barton St. Michael .....	8	1		12	16
Holy Trinity.....	15	2		13	15
St. Nicholas (with Pool Meadow) .....	54	9	1	16	24
St. Mary-de-Lode (with College Precincts) ...	28	5	3	17	26
St. Mary-de-Crypt .....	11	2	2	18	12
Littleworth .....	5	1		20	35
Barton St. Mary .....	10	2	1	20	16
St. Owen . .....	9	2		22	21
St. Aldate .....	8	2	1	25	23
*St. Michael.....	18				24
*St. Mary-de-Grace .....	3				19
	324	39	16	13	20

Death-rate per 1000, 1862, whole district.	Males.	Females.	Proportion of Males to 100 Females.	Death-rate per 1000, whole district, 11 years.
19.83	20.55	19.20	94.01	20.53

Birth-rate per 1000, 1862, whole district.	Males.	Females.	Proportion of Males to 100 Females.	Birth-rate per 1000, whole district, 11 years.
38.51	45.43	32.43	123.21	33.63

Proportion of Births to Deaths 1862.	Proportion of Births to Deaths, 11 years.
1.94 to 100	1.64 to 100

\* No deaths from Zymotic Diseases.

The per-centage of the infant mortality is shewn as follows, and compared with the annual per-centage deduced from an average of eleven years:—

Position 1862.	PARISH OR HAMLET,	Per-centage of Infant Mortality 1862.	Per-centage, 1861.	Per-centage, 11 years.	Position 1861.
1	St. Owen .....	9.99	42.85	43.70	8
2	Barton St. Michael .....	25.00	55.55	43.52	10
3	Holy Trinity .....	26.66	37.50	36.70	3
4	St. Michael .....	27.77	38.88	45.00	4
5	Barton St. Mary .....	30.00	56.25	47.61	11
6	St. Mary-de-Grace .....	33.33	57.14	47.82	12
7	St. Catherine .....	33.33	41.17	40.42	7
8	South Hamlet .....	36.11	29.03	31.55	2
9	St. Mary-de-Lode (with } College Precincts..... }	39.28	58.06	49.43	13
10	Littleworth .....	40.00	25.00	41.23	1
11	St. Nicholas (with Pool } Meadow .....	43.82	59.18	54.57	14
12	St. John .....	43.82	40.21	40.94	6
13	St. Mary-de-Crypt .....	54.54	47.05	40.80	9
14	St. Aldate.....	62.50	40.00	40.15	5
		36.15	44.84	43.10	

The following table shews the average age in years at death in the various parishes in 1862:—

Position 1862.	PARISH OR HAMLET.	Males.	Females.	Both Sexes, 1862.	Both Sexes, 4 years.	Position, 1861.
1	Barton St. Michael .....	*	41.16	46.00	26.00	14
2	St. Owen .....	48.60	35.00	42.55	27.75	8
3	Barton St. Mary .....	12.33	52.42	40.40	23.84	13
4	St. Mary-de-Grace .....	...	...	37.66	28.01	9
5	St. Michael .....	32.81	40.57	35.83	28.16	1
6	St. Mary-de-Lode (with } College Precincts) ... }	31.94	39.22	34.28	26.18	12
7	St. Catherine .....	30.60	33.70	32.66	23.17	11
8	Holy Trinity.....	35.22	25.83	31.46	29.01	5
9	South Hamlet .....	25.13	34.95	30.86	32.50	2
10	St. Nicholas (with Pool } Meadow) .....	28.30	33.80	30.44	20.35	10
11	St. John .....	29.30	29.14	29.21	31.44	6
12	Littleworth .....	5.66	*	25.20	31.68	4
13	St. Mary-de-Crypt .....	†	32.00	23.63	30.37	7
14	St. Aldate.....	*	29.66	22.50	28.70	3
		27.98	35.62	33.10	27.65	

\* Only 2 deaths.

† All the deaths under 5 years.

# THE SANITARY CONDITION OF THE SUBURBAN DISTRICT OF THE GLOUCESTER UNION. 1862.

THE population in 1862 was estimated at 9149—males 4402, females 4747; including the Infirmary, Workhouse, and Almshouses, it amounted to 9332. The registered births were 385—205 males and 180 females; of these 3·94 per cent. were illegitimate. The registered deaths in 1862 were 157—83 males and 74 females; of these deaths 17·19 per cent. were uncertified. These numbers do not include the mortality in the Workhouse, Infirmary, and Almshouses. The death-rate in the suburbs, including the deaths in the above mentioned institutions, was 18·22 per thousand; exclusive of that mortality 17·16 per thousand, or 58 living to every death.

The following table shews the distribution of deaths:—

PARISH or HAMLET.	Males.	Females.	Under 5.	5—10	10—15	15—20	20—30	30—40	40—50	50—60	60—70	70—80	Over 80	Both Sexes.	Average 11 years.
Barton St. Mary ...	35	32	18M 11F	3	2	1	1	4	1	1	3	1	1	67	56.63
Barton St. Michael ...	19	18	10M 4F	...	1	1	1	...	...	4	...	2	2	37	31.81
Kingsholm St. Mary	12	7	9M 5F	1	...	...	...	...	...	2	...	...	...	19	19.27
Wotton ... ..	5	11	2M 3F	...	...	...	...	...	...	2	1	...	...	16	16.45
South Hamlet ...	7	1	3M 0F	...	1	...	...	2	...	1	...	...	...	8	14.63
Kingsholm St. Catharine ...	3	3	3M 0F	...	...	...	...	...	1	...	...	...	...	6	9.00
North Hamlet ...	2	2	1M 1F	...	...	...	...	1	...	...	...	...	...	4	4.18
Totals ... ..	83	74	46M 24F	1	4	3	2	2	7	1	10	4	3	157	151.97
Deaths in Infirmary from Sub. Parishes	0	1	...	...	...	...	...	...	...	...	...	...	...	1	
Ditto in Almshouses	2	0	...	...	...	...	...	...	...	...	...	2	...	2	
Ditto in Workhouse	3	7	1M 1F	...	...	...	...	1	1	1	...	1	1	10	
Totals ... ..	88	82	47M 25F	1	4	3	2	2	8	1	11	6	3	170	

The death-rate in 1862 of the different Parishes is as follows; it is compared with the annual average death-rate for the last eleven years:—

Position 1862.	PARISH or HAMLET.	Estimated Population in 1862.	Death-rate in 1862, per 1000.	Death-rate 11 years, per 1000.	Above the Average.	Below the Average.	Position 1861.
1	Kingsholm St. Catharine ... .. }	819	7.32	15.65	...	8.33	2
2	Wotton ... .. }	1075	14.88	16.82	...	1.94	3
3	South Hamlet ... .. }	519	15.41	28.85	...	13.44	7
4	North Hamlet ... .. }	244	16.39	23.22	...	6.83	1
5	Kingsholm St. Mary	1035	18.35	19.58	...	1.23	6
6	Barton St. Mary ...	3525	19.00	20.86	...	1.86	5
7	Barton St. Michael ...	1932	19.15	19.31	...	.16	4
		9149	15.78	20.61	...	4.83	

The following table shews the distribution of births:—

PARISH OR HAMLET.	Males.	Females.	Both Sexes.	Both Sexes, 11 years.
Barton St. Mary ... ..	89	77	166	132
Barton St Michael ... ..	46	44	90	68
Kingsholm St. Mary ... ..	28	20	48	35
Wotton ... ..	16	13	29	32
Kingsholm St. Catherine... ..	9	15	24	17
South Hamlet ... ..	12	7	19	19
North Hamlet... ..	5	4	9	6
	205	180	385	309

The birth-rate in 1862 of the different Parishes is as follows; it is compared with the annual average death-rate for the last eleven years:—

Position 1862.	PARISH OR HAMLET.	Estimated Population, 1862.	Birth-Rate per 1000.	Birth-Rate 11 yrs. per 1000.	Above the Average.	Below the Average.	Position 1861.
1	Barton St. Mary ... ..	3525	47.09	48.90		1.81	4
2	Barton St. Michael ... ..	1932	46.53	41.80	4.73		2
3	Kingsholm St. Mary ... ..	1035	46.37	35.86	10.51		6
4	North Hamlet ... ..	244	36.88	33.33	3.55		7
5	South Hamlet ... ..	519	36.60	37.47		.87	1
6	Kingsholm St. Catherine	819	29.27	30.81		1.54	5
7	Wotton ... ..	1075	26.97	33.45		6.48	3
		9149	38.53	37.37			

Death-rate per 1000, 1862, whole district.	Males.	Females.	Proportion of Males to 100 Females.	Death-rate per 1000, whole district, 11 years.
17·16	18·85	15·58	112·16	20·15

Birth-rate per 1000, 1862, whole district.	Males.	Females.	Proportion of Males to 100 Females	Birth-rate per 1000, whole district, 11 years.
42·08	46·56	37·91	113·88	41·32

Proportion of Births to Deaths 1862.	Proportion of Births to Deaths, 11 years.
245 to 100	204 to 100

The illegitimate births in the different Parishes were as follow:—

Barton St. Mary	....	5		Barton St. Michael	....	3
Kingsholm St. Mary		5		Kingsholm St. Cath.	....	1
Union	....	...	....			2

*Zymotic Diseases.*—The deaths from these diseases in 1862 were 32. There was 1 fatal case of Small Pox. Diphtheria proved fatal in 3 instances, Hooping Cough in 3, Diarrhœa in 7, Fever in 5, and Measles in 2.

#### 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.	Percentage of Zymotic Mortality.	Average percentage, 4 years.
Wotton	16	2	1	12	20
Barton St. Mary	67	11	7	16	28
Kingsholm St. Catherine	6	1	1	16	28
South Hamlet	8	2	1	25	32
North Hamlet	4	1	...	25	8
Kingsholm St. Mary	19	5	4	26	35
Barton St. Michael	37	10	6	27	28
	157	32	20	21	25

The following table gives the per-centage of deaths at various ages:—

	Under 5 yrs.	5—10	10—15	15—20	20—30	30—40	40—50	50—60	60—70	70—80	Over 80
Males ...	55.42	*	4.81	3.61	2.40	2.40	8.43	1.20	12.04	4.81	3.61
Females ...	32.43	†	6.75	*	6.75	6.75	12.16	5.40	9.45	10.10	9.44
Both Sexes	44.58	63	5.72	1.91	4.45	4.45	10.19	3.18	10.82	7.64	6.36
Both Sexes, average 4 years	46.06	4.91	1.60	3.82	6.42	6.28	5.23	5.76	7.28	7.03	5.97

The per-centage of the infant mortality is shewn as follows, and compared with the annual per-centage deduced from an average of eleven years:—

Position, 1862.	PARISH OR HAMLET.	Per centage of Infant Mortality, 1862.	Per-centage, 1861.	Per-centage, 11 years.	Position 1861.
1	Wotton ... ..	31.25	18.75	27.47	1
2	South Hamlet ... ..	37.50	42.85	41.61	3
3	Barton St. Michael ... ..	37.83	45.94	49.71	4
4	Barton St. Mary ... ..	43.28	46.57	53.61	5
5	Kingsholm St. Catherine...	50.00	50.00	43.43	6
6	North Hamlet ... ..	50.00	66.66	23.91	7
7	Kingsholm St. Mary ... ..	73.68	36.36	53.77	2
		46.22	43.87	41.93	

The following table shews the average age in years at death in the various Parishes in 1862:—

Position 1862.	PARISH OR HAMLET.	Males.	Females.	Both Sexes, 1862.	Both Sexes, 4 years.	Position 1861.
1	Wotton ... ..	41.40	45.80	44.43	34.98	1
2	Barton St. Michael ... ..	27.36	39.88	33.45	26.57	5
3	Barton St. Mary ... ..	23.71	36.96	30.04	24.27	4
4	† North Hamlet ... ..	22.50	20.00	21.25	†	
5	South Hamlet ... ..	24.00	*	26.37	26.00	2
6	Kingsholm St. Catherine	2.33	39.33	20.83	30.42	7
7	Kingsholm St. Mary ... ..	12.41	21.28	15.68	23.26	3
		21.95	33.87	27.43	27.70	

\* Only one death. † No death. ‡ Six deaths in four years.

THE SANITARY CONDITION  
OF  
THE RURAL DISTRICT  
OF THE  
GLOUCESTER UNION.  
1862.

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THE population in 1862 was estimated at 8153—males 4071, females 4082. Including the Infirmary and Workhouse it amounted to 8318. The registered births were 264—129 males and 135 females; of these 5·78 per cent. were illegitimate. The registered deaths in 1862 were 117—60 males and 57 females; of these deaths 17·94 per cent. were uncertified. These numbers do not include the mortality in the Infirmary and Workhouse. The death-rate in the Rural Division, including the deaths in the above mentioned Institutions, was 16·35 per thousand, exclusive of that mortality 14·35 per thousand; or 69 living to 1 death.

The following table shews the distribution of deaths:—

PARISH or HAMLET.	Males.	Females.	Under 5.	5-10	10-15	15-20	20-30	30-40	40-50	50-60	60-70	70-80	Over 80	Both Sexes.	Average 11 years.
Upton .. .. .	15	7	6	1	1	1	1	2	3	1	2	2	2	22	18.72
Longford St. Mary ...	7	3	1	1	1	1	2	1	1	1	1	1	1	10	7.27
Hempsted ... ..	3	6	1	1	1	1	1	1	1	1	1	1	2	9	8.81
Churchdown ... ..	6	3	2	1	1	1	1	1	1	1	1	1	1	9	10.81
Quedgeley . . .	2	5	1	1	1	1	1	1	1	1	1	1	1	7	5.81
Brockworth ... ..	2	5	1	1	1	1	1	1	1	1	1	1	1	7	8.54
Maisemore ... ..	4	3	1	1	1	1	1	1	1	1	1	1	1	7	5.90
Ashleworth .. ..	2	5	1	1	1	1	1	1	1	1	1	1	1	7	9.90
Sandhurst ... ..	4	2	2	1	1	1	1	1	1	1	1	1	1	6	9.09
Norton ... .. .	2	3	1	1	1	2	1	1	1	1	1	1	1	5	8.09
Barnwood ... ..	1	4	1	1	1	1	1	1	1	1	1	1	1	5	7.72
Elmore .. .. .	3	1	2	1	1	1	1	1	1	1	1	1	1	4	5.45
Hatherley ... ..	2	2	1	1	1	1	1	1	1	1	1	1	1	4	2.54
Highnam, &c. ... ..	3	1	1	1	1	1	1	1	1	1	1	1	1	4	5.27
Longford St. Catherine	2	2	1	1	1	1	1	1	1	1	1	1	1	4	3.63
Hucclecote ... ..	1	2	1	1	1	1	1	1	1	1	1	1	1	3	6.54
Twigworth ... ..	...	2	1	1	1	1	1	1	1	1	1	1	1	2	2.45
Matson ... .. .	...	1	1	1	1	1	1	1	1	1	1	1	1	1	.72
Lassington ... ..	1	...	1	1	1	1	1	1	1	1	1	1	1	1	0.54
	60	57	{ 21	3	3	3	5	2	5	2	7	5	4	} 117	127.34
			{ 16	2	1	2	2	4	3	6	7	7	7		
Deaths in Infirmary	6	1	{ ...	...	...	...	1	3	2	...	...	...	...	7	127.80
Ditto in Workhouse	8	4	{ ...	...	...	...	2	1	1	1	1	3	...	12	
	73	63	{ ...	...	...	...	...	...	...	...	...	...	...	} 136	27.80
			{ ...	...	...	...	...	...	...	...	...	...	...		
			37	5	4	5	10	10	13	9	15	16	12		

In my calculation of the mortality in the Rural District I have collected the Parishes, with one exception, into three divisions, as in my last Report, as follows:—

HILL PARISHES....Tuffley, Upton, Norton, Churchdown, Matson, and Lassington.

RIVER PARISHES....Maisemore, Sandhurst, Ashelworth, Longford St. Catherine, and Elmore.

PARISHES OF THE PLAIN....Quedgeley, Whaddon, Brockworth, Hucclecote, Barnwood, Hatherley, Twigworth, Highnam, &c., and Longford St. Mary.

The death-rate of the different divisions is as follows; it is compared with the annual average death-rate for the last eleven years:—

Position 1862.	PARISH or HAMLET	Estimated Population, 1862.	Death-rate 1862, per 1000.	Death-rate 11 years, per 1000.	Above the Average.	Below the Average.	Position 1861.
1	River Parishes ...	2199	12.27	14.80	...	2.53	2
2	Parishes of the Plain	3119	13.78	16.06	...	2.28	3
3	Hill Parishes ...	2411	15.77	17.26	...	1.49	1
	Hempsted ...	7729	13.94	16.04	...	2.10	
		424	21.22	26.14	..	4.92	

The following table shews the distribution of births:—

PARISH.	Males.	Females.	Both Sexes, 1862.	Both Sexes, 11 years.
Churchdown ...	10	15	25	20
Upton St. Leonard's ...	15	12	27	27
Sandhurst ...	11	10	21	20
Barnwood ...	9	9	18	10
Norton ...	5	13	18	13
Ashelworth ...	10	7	17	15
Maisemore ...	7	10	17	15
Brockworth ..	7	9	18	15
Hempsted... ..	9	9	15	15
Hucclecote ...	9	6	15	10
Longford St. Mary ...	4	10	14	14
Quedgeley ...	9	2	11	12
Highnam, &c. ...	4	6	10	9
Elmore.. ...	3	3	6	9
Hatherley... ..	4	2	6	5
Tuffley ...	3	4	7	4
Whaddon ...	4	1	5	3
Longford St. Catherine	2	2	4	4
Matson ...	2	2	4	*
Twigworth ...	2	2	4	4
Lassington ...	...	1	1	1
	129	135	264	225

\* 10 births in 11 years.

The birth-rate in 1862, in the different divisions, is as follows; it is compared with the average annual birth-rate for the last eleven years:—

Position 1862.	DIVISION.	Estimated Population, 1862.	Birth-rate, 1862, per 1000.	Birth-rate 11 years, per 1000.	Above the Average.	Below the Average.	Position 1861.
1	Hill Parishes ... ..	2411	34.01	27.51	6.50		2
2	Parishes of the Plain	3119	31.74	28.68	3.06		3
3	River Parishes ... ..	2199	29.55	29.98		.43	1
	Hempsted ... ..	7729 424	31.73 42.45	28.72 45.51		2.86	

The illegitimate births in the several Parishes were as follow:—

Churchdown. 5	Elmore .... 1	Sandhurst .... 1
Tuffley ..... 2	Ashelworth... 1	Hucclecote .... 1
Upton ..... 1	Maisemore ... 1	Union..... 3

*Zymotic Diseases.*—The deaths from these diseases in 1862 were 15. One person died from Scarlet Fever, five persons from Diarrhœa, four from Fever, two from Hooping Cough, one person from Diphtheria, and one from Scarlet Fever.

#### MORTALITY FROM ZYMOTIC DISEASES.

DIVISION.	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.	Average per cent-age 4 years.
Hill Parishes ... ..	38	4	3	10	12
River Parishes ...	27	3	2	11	15
Parishes of the Plain	43	6	1	13	11
Hempsted ... ..	108 9	13 2	6 1	11 22	12 25

The following table gives the per-centage of deaths at various ages:—

	Under 5 yrs.	5—10	10—15	15—20	20—30	30—40	40—50	50—60	60—70	70—80	Over 80
Males ... ..	34.42	4.91	6.55	4.91	8.19	3.27	8.19	3.27	11.47	8.19	6.55
Females ...	26.78	3.57	1.78	3.57	3.57	7.14	5.35	10.71	12.50	12.50	12.50
Both Sexes ...	30.76	4.27	4.27	4.27	5.98	5.12	6.83	6.83	11.96	10.25	9.40
Both Sexes, } av. 4 yrs. }	33.09	3.36	2.90	4.29	6.55	5.35	4.96	6.81	12.91	10.52	10.32

The per-centage of the infant mortality is shewn as follows, and compared with the annual per-centage deduced from an average of eleven years:—

Position 1862.	DIVISION.	Per-centage 1862.	Per-centage 1861.	Per-centage 11 years.	Position 1861.
1	Parishes of the Plain	25·58	37·73	29·66	2
2	River Parishes ... ..	29·62	41·17	30·21	3
3	Hill Parishes ... ..	34·21	31·42	33·83	1
		29·80	36·77	31·23	
	Hempsted... ..	33·33	10·00	47·42	

The following table shews the average age in years at death in the three Divisions in 1862:—

Position 1862.	DIVISION.	Males.	Females.	Both Sexes, 1862.	Both Sexes, 1861.	Both Sexes, 4 years.	Position 1861.
1	Parishes of the Plain	30·05	42·25	36·86		38·79	
2	Hill Parishes ... ..	34·87	37·57	35·86		37·92	
3	River Parishes ... ..	28·06	45·08	35·62		36·85	
		30·99	41·63	36·11		37·85	
	Hempsted... ..	11·00	40·33	30·55		26·32	

Death-rate, 1862, per 1000, whole district,	Males.	Females.	Proportion of Males to 100 Females.	Death-rate per 1000, whole district, 11 years.
14·35	14·24	13·96	105·26	16·54

Birth-rate per 1000, 1862, whole district.	Males.	Females.	Proportion of Males to 100 Females.	Birth-rate per 1000, whole district, 11 years.
32·37	31·19	33·07	95·55	29·45

Proportion of Births to Deaths, 1862.	Proportion of Births to Deaths, 11 years.
225 to 100	178 to 100.

## TABLE

SHEWING THE CAUSES OF DEATH AT DIFFERENT AGES.—1862.

Males.

CAUSES OF DEATH.	Under 1 yr.	1	2	3	4	5—10	10—15	15—25	25—35	35—45	45—55	55—65	65—75	75—85	85—95	95 & upw'ds.	All ages.
<b>Class I.—ORDER I.</b>																	
1 Small Pox ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0
2 Measles... ..	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3
3 Scarlatina ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0
4 Croup ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0
5 Diphtheria... ..	...	1	...	1	...	1	...	...	...	...	...	...	...	...	...	...	3
6 Whooping Cough	4	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5
7 Typhus ... ..	...	...	...	1	1	1	3	1	1	3	...	3	1	...	...	...	15
8 Erysipelas ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0
9 Metria ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0
10 Carbuncle ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0
11 Influenza ... ..	1	...	1	...	1	...	1	...	...	...	...	2	...	...	...	...	6
12 Dysentery ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0
13 Diarrhœa... ..	9	1	...	...	...	...	...	...	...	...	...	...	2	1	...	...	13
14 Cholera ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0
15 Rheumatism ... ..	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	2
<b>ORDER II.</b>																	
1 Syphilis ... ..	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4
2 Stricture of Urethra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0
<b>ORDER III.</b>																	
1 Want of Milk... ..	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
2 Purpura ... ..	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	2
3 Alcohol ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0
Delirium Tremens	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0
<b>Class II.—ORDER I.</b>																	
1 Hemorrhage ... ..	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	2
2 Gout ..... ..	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1
3 Dropsy ... ..	...	...	1	...	...	...	...	1	1	...	...	...	1	...	...	...	4
4 Cancer ... ..	...	...	...	1	...	...	...	...	1	1	...	2	1	...	...	...	6
5 Mortification ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0
7 Abscess... ..	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	2
<b>ORDER II.</b>																	
1 Scrofula ... ..	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1
2 Tabes ... ..	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
3 Phthisis ... ..	1	1	...	...	2	1	13	10	8	4	5	...	...	...	...	...	45
4 Hydrocephalus ...	5	2	1	...	1	1	...	...	...	...	...	...	...	...	...	...	10
<b>Class III.—ORDER I.</b>																	
1 Cephalitis ... ..	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1
2 Apoplexy ... ..	...	...	...	...	...	...	1	...	2	...	2	3	4	...	...	...	12
3 Paralysis ... ..	...	...	...	...	...	...	...	...	1	1	3	8	5	...	...	...	18
4 Epilepsy ... ..	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1
5 Convulsions ... ..	20	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	23
6 Brain Disease ... ..	...	...	1	...	...	...	...	...	1	...	...	1	...	...	...	...	3
<b>ORDER II.</b>																	
1 Pericarditis ... ..	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1
2 Aneurism... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0
3 Heart Disease ...	...	1	...	1	...	1	...	1	2	4	5	7	...	...	...	...	21

## TABLE

SHEWING THE CAUSES OF DEATH AT DIFFERENT AGES.—1862.

Females.

CAUSES OF DEATH.	Under 1 yr.											95 & upwards	All ages		
	1	2	3	4	5-10	10-15	15-25	25-35	35-45	45-55	55-65			65-75	75-85
<b>Class I.—ORDER I.</b>															
1 Small Pox... ..		1													1
2 Measles... ..															0
3 Scarlatina... ..					1										1
4 Croup... ..	1														1
5 Diphtheria... ..		1			1	1									3
6 Whooping Cough		1		1											2
7 Typhus... ..			1	1	3	3	3	1	1	1	1	1			16
8 Erysipelas... ..	1							1							2
9 Metria... ..							2								2
10 Carbuncle... ..															0
11 Influenza... ..	1		1							2			1		5
12 Dysentery... ..															0
13 Diarrhœa... ..	3	1								2			1		7
14 Cholera... ..															0
15 Rheumatism... ..						1			1						2
<b>ORDER II.</b>															
1 Syphilis... ..															0
2 Stricture of Urethra															0
<b>ORDER III.</b>															
1 Want of Milk... ..															0
2 Purpura... ..															0
3 Alcohol... ..															0
Delirium Tremens															0
<b>Class II.—ORDER I.</b>															
1 Hemorrhage... ..															0
2 Gout... ..															0
3 Dropsy... ..									1	2	2				5
4 Cancer... ..							1	1	1	2	4	1			10
5 Mortification... ..									1						1
6 Abscess... ..	1				1					1	1				4
<b>ORDER II.</b>															
1 Scrofula... ..	1	1			1					1					4
2 Tabes... ..	2	1													3
3 Phthisis... ..						2	11	11	7	6	2				39
4 Hydrocephalus... ..	3	1	1	1	1										7
<b>Class III.—ORDER I.</b>															
1 Cephalitis... ..	1									1					2
2 Apoplexy... ..								2	2	1					5
3 Paralysis... ..							1		2	2	6	1	1		13
4 Epilepsy... ..											1				1
5 Convulsions... ..	16														16
6 Brain Disease... ..					1			2				1			4
<b>ORDER II.</b>															
1 Pericarditis... ..															0
2 Aneurism... ..									2						2
3 Heart Disease... ..		1					3	3	4	7	10	4			32





## TABLE

SHEWING THE CAUSES OF DEATH AT DIFFERENT AGES.—1862.

Males (Continued.)

CAUSES OF DEATH.	Under 1 year											All ages					
		1	2	3	4	5-10	10-15	15-25	25-35	35-45	45-55		55-65	65-75	75-85	85-95	95 and upwards
2 Drowning ... ..	...	...	...	1	...	...	1	2	1	1	...	...	1	...	...	...	7
3 Suffocation ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0
4 Fractures & Contusions	...	...	...	...	...	1	...	2	...	...	1	...	...	...	...	...	4
ORDER II.																	
1 Cuts or Stabs ... ..	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1
2 Hanging ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0
CLASS VI.																	
1 Not Specified ... ..	6	...	...	...	...	1	...	1	...	1	1	...	2	1	...	...	14
	99	18	8	3	6	8	11	25	16	29	21	29	37	23	0	0	333

## METEOROLOGY.

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 48°5, which was lower than the average temperature of 1861 by 1°2. The mean daily range of temperature was 13°6. The mean height of the barometer was 29·83. The rain-fall was 28·03 inches, and rain fell on 178 days in the year. The relative proportions of wind were, North, 77; East, 66; South, 53; West, 158.

Year.	Average Temp.	Mean daily range.	Barometer, mean.	Rain-fall, inches.	Days on which rain fell.	WIND.			
						N.	E.	S.	W.
1859	50 7	16 3	29·87	23·85	158	81	63	59	155
1860	47 5	14 5	29·75	28·01	192	90	70	66	142
1861	49 7	15 5	29·85	21·83	147	82	74	61	147
1862	48 5	13 6	29·83	28·03	178	77	66	53	158
Average	49 1	14 9	29·82	25·43	168	82	68	59	150

## TABLE

SHEWING THE CAUSES OF DEATH AT DIFFERENT AGES.—1862.

Females (*Continued.*)

CAUSES OF DEATH.	Under 1 year										All ages					
	1	2	3	4	5—10	10—15	15—25	25—35	35—45	45—55		55—65	65—75	75—85	85—95	95 and upwards
2 Drowning ... ..	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1
3 Suffocation ... ..	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1
4 Fractures & Contusions ORDER II.	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1
1 Cuts or Stabs ... ..	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1
2 Hanging ... ..	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1
Class VI.																
1 Not Specified ... ..	4	...	1	...	...	...	...	...	2	...	...	1	...	...	...	18
	70	11	1	3	3	9	12	18	22	21	25	36	45	30	9	1326

## WHOLE DISTRICT.

MONTHS.	Barometer, 1862.	Barometer, 3 years.	Thermome- ter, 1862.	Thermome- ter, 3 years.	Deaths, 1862.	Deaths, 3 years.	Births, 1862.	Births, 3 years.
January ... ..	29.75	29.91	40 2	38 8	87	68	121	111
February ... ..	30.00	29.86	42 2	41 1	68	52	110	91
March ... ..	29.57	29.73	43 4	45 0	69	60	132	94
April ... ..	29.91	29.86	48 2	45 5	48	57	100	93
May ... ..	29.80	29.89	54 6	53 6	57	63	107	87
June ... ..	29.80	29.76	56 6	53 4	38	58	90	96
July ... ..	29.81	29.87	62 2	62 2	44	53	92	85
August ... ..	29.86	29.80	60 9	60 8	42	48	101	88
September ... ..	29.94	29.80	52 9	55 3	43	50	81	92
October ... ..	29.77	29.80	51 5	52 0	35	54	114	99
November ... ..	29.88	29.77	38 3	41 2	64	65	116	89
December ... ..	29.90	29.81	44 8	38 0	64	62	114	109
Means ... ..	29.83	29.82	48 5	49 3	55	57	106	94

(TABLE 2.)

Register of Births and Deaths in the Urban, Suburban, and Rural Divisions of the Gloucester Union, for the 52 Weeks ending 31st day of December, 1862.

DIVISION.	Estimated Population in 1862.	BIRTHS.			DEATHS.			From all causes under 5 years of age.	From Small Pox.	From Measles.	From Scarlet Fever.	From Hooping Cough.	From Diarrhea.	From Low Fever.	From Diphtheria.
		M.	F.	M.&F.	M.	F.	M.&F.								
Urban .. .. .	16332	347	282	529	157	167	324	121	..	1	..	2	6	19	2
Suburban .. .. .	9149	205	180	385	83	74	157	70	1	2	..	3	7	5	3
Rural .. .. .	8153	129	135	264	60	57	117	37	..	..	1	2	5	4	1
Workhouse .. .. .	363	6	9	15	21	21	42	4	..	..	..	..	2	4	..
Infirmary and Almshouses ..	216	..	..	..	12	7	19	..	..	..	..	..	..	..	..
Totals .. .. .	34213	687	606	1293	333	326	659	232	1	3	1	7	20	32	6

(TABLE 3.)

FIRST OR WINTER QUARTER, 1862.

Register of Births and Deaths in the Three Divisions of the Gloucester Union, from 1st day of January to 31st day of March, 1862.

DIVISION.	Estimated Population in 1862.			BIRTHS.			DEATHS.			From all causes under 5 years of age.	From Small Pox.	From Scarlet Fever.	From Hooping Cough.	From Diarrhœa.	From Low Fever.	From Measles.	From Diphtheria.
	M.	F.	M.&F.	M.	F.	M.&F.	M.	F.	M.&F.								
Urban .. .. .	98	87	185	51	56	107	..	..	..	..	..	1	1	5	..	..	1
Suburban .. .. .	49	56	105	22	32	54	..	..	..	..	..	..	2	2	..	..	2
Rural .. .. .	34	33	67	17	17	34	..	..	..	..	..	1	1	..	..	..	1
Workhouse .. .. .	2	5	7	7	7	14	..	..	..	..	..	..	..	1	..	..	..
Infirmary and Almshouses ..	..	..	..	4	2	5	..	..	..	..	..	..	..	..	..	..	..
Totals .. .. .	183	181	364	101	114	215	65	1	3	4	8	..	..	..	..	..	4

(TABLE 4.)

SECOND OR SPRING QUARTER, 1862.

Register of Births and Deaths in the Three Divisions of the Gloucester Union, from 1st day of April to 30th day of June, 1862.

DIVISION.	Estimated Population in 1862.	BIRTHS.			DEATHS.			From all causes under 5 years of age.	From Small Pox.	From Measles.	From Scarlet Fever.	From Hooping Cough.	From Diarrhea.	From Low Fever.	From Diphtheria.
		M.	F.	M.&F.	M.	F.	M & F.								
Urban .. .. .	16332	83	49	132	41	33	74	29	..	1	..	1	5	..	
Suburban .. .. .	9149	57	43	100	19	15	34	18	1	..	..	..	1	..	
Rural .. .. .	8153	32	27	59	11	14	25	8	..	..	..	..	1	..	
Workhouse .. .. .	363	1	..	1	2	5	7	..	..	..	..	1	..	..	
Infirmary and Almshouses ..	216	..	..	..	3	1	4	..	..	..	..	..	..	..	
Totals .. .. .	34213	173	119	292	76	68	144	55	1	1	..	3	2	7	..

(TABLE 5.)

## THIRD OR SUMMER QUARTER, 1862.

Register of Births and Deaths in the Three Divisions of the Gloucester Union, from 1st day of July to 30th day of September, 1862.

DIVISION.	Estimated Population in 1862.	BIRTHS.			DEATHS.			From all causes under 5 years of age.	From Small Pox,	From Measles.	From Scarlet Fever.	From Hooping Cough.	From Diarrhea.	From Low Fever.	From Diphtheria.
		M.	F.	M.&F.	M.	F.	M.&F.								
Urban .. .. .	16332	67	66	133	28	32	60	17	..	..	..	..	1	3	1
Suburban .. .. .	9149	47	35	82	14	14	28	10	..	..	..	5	1	..	..
Rural .. .. .	8153	26	32	58	14	12	26	10	..	..	..	3	2	..	..
Workhouse .. .. .	363	1	2	3	6	4	10	..	..	..	..	1	2	..	..
Infirmaries and Alms-houses .. .. .	216	..	..	..	3	2	5	..	..	..	..	..	..	..	..
Totals .. .. .	34213	141	185	276	65	64	129	37	..	..	..	10	8	..	1

(TABLE 6.)  
FOURTH OR AUTUMN QUARTER, 1862.

Register of Births and Deaths in the Three Divisions of the Gloucester Union, from 1st day of October, to the 31st day of December, 1862.

DIVISION.	Estimated Population in 1862.			BIRTHS.			DEATHS.			From all causes under 5 years of age.						
	M.	F.	M.&F.	M.	F.	M.&F.	M.	F.	M.&F.	From Small Pox.	From Measles.	From Scarlet Fever.	From Hooping Cough.	From Diarrhea.	From Low Fever.	From Diphtheria.
Urban ... ..	97	78	175	37	46	83	38	38	38	...	...	...	...	3	6	...
Suburban ... ..	51	42	93	28	13	41	25	13	41	...	2	...	1	...	1	1
Rural ... ..	35	38	73	18	14	32	9	14	32	...	...	...	...	1	1	...
Workhouse ... ..	2	2	4	6	5	11	4	5	11	...	...	...	...	...	1	...
Infirmary and Almshouses ...	...	...	...	2	2	4	...	2	4	...	...	...	...	...	...	...
Totals ... ..	185	160	345	91	80	171	76	80	171	...	2	...	1	4	9	1

(TABLE 7.)\*

Births, Deaths, and Temperature in the Three Divisions of the Gloucester Union during the Four Quarters of 1862.

	No. of Deaths, 1862.	Mean Temperature of Air.	No. of Deaths, Average of 5 years.	Mean Temp. of Air, 5 years.	No. of Births, Average of 5 years.	No. of Births, 1862.
First Quarter ... ..	195	41 9	159	40 8	287	357
Second Quarter ... ..	133	53 1	147	53 1	278	291
Third Quarter ... ..	114	56 9	143	60 1	264	273
Fourth Quarter ... ..	156	44 8	178	44 8	283	341
Sum of Four Quarters ... ..	598	49 1	627	49 7	1112	1262

(TABLE 8.)\*

	Births.	Deaths.	Birth-rate, per 1000.	Per-centage of illegitimate Births.	Death-rate, per 1000.	Per-centage of Zymotic Disease.	Per-centage Deaths under 5 years.	Average age at death.
Urban ... ..	625	324	38.53	5.76	19.97	13	36.15	33.10
Suburban ... ..	380	157	41.53	3.94	17.16	21	46.22	28.46
Rural (not in- cluding Hempsted) } ... ..	242	108	31.31	5.78	13.97	11	29.80	36.11
Totals and Means	1247	589	37.12	5.16	17.03	15	37.39	32.55

\* These Tables do not include the Births and Deaths in the Union Workhouse, &c.

Table 1  
The Effect of Temperature on the Rate of Reaction

Temperature (°C)	Time (min)	Volume of Gas (ml)
20	10	10
30	10	20
40	10	40
50	10	80

Table 2

Concentration (M)	Time (min)	Volume of Gas (ml)
0.1	10	10
0.2	10	20
0.3	10	30
0.4	10	40

The rate of reaction increases with temperature and concentration.

John Doe, Chemistry Department, University of XYZ

