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Contributors

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COUNTY BOROUGH OF SUNDERLAND.

Annual Report

ON THE

HEALTH & SANITARY CONDITION OF SUNDERLAND

FOR THE YEAR 1900.

HAROLD SCURFIELD,

M.D. AND C.M. (EDIN.), D.P.H. (CAMB.),

MEDICAL OFFICER OF HEALTH,

MEDICAL SUPERINTENDENT OF THE BOROUGH
SANATORIUM.

Sunderland :

HERALD AND DAILY POST GENERAL PRINTING WORKS, WEST WEAR STREET

1901.

COUNTY BOROUGH OF SUNDERLAND.

HEALTH COMMITTEE

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ALDERMAN JOHN HARRISON, J.P.

VICE-CHAIRMAN :

COUNCILLOR JOHN TURNBULL.

ALDERMAN BRUCE.	COUNCILLOR KIRTLEY.
„ JOHNSTON.	„ NEW.
„ RICHARDSON, J.P.	„ RITSON.
„ SMITH.	„ SANDERSON, J.P.
„ WALKER.	„ SHORT.
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„ BELL, R. G.	„ THOMPSON, L.
„ CHALLONER.	„ TURNBULL, H. J.,
„ CROWN.	„ J.P.
„ FOSTER.	„ WALKER.
„ FOWLER.	

Meetings every alternate Thursday, at 7-30 p.m.
Accounts at 7-15 p.m.

Officials of the Health Department.

Medical Officer of Health and Medical Superintendent
of the Borough Sanatorium :

HAROLD SCURFIELD, M.D. AND C.M. (Edin.), D.P.H. (Camb.)

Deputy Medical Officer of Health :

HENRY RENNEY, M.D., B.S., AND D.P.H. (Durh.)

Inspector of Nuisances :

MR. JOHN PENNOCK.

Deputy Inspector of Nuisances :

MR. CHARLES E. HORSMAN.

Assistant Inspectors of Nuisances :

MR. THOMAS H. DOWNES.

MR. JAMES S. WATSON.

MR. GEO. A. SINCLAIR.

MR. ROGER LEE.

MR. J. G. FORSYTHE.

Clerk :

MR. JOHN SUMMERS.

Assistant Clerks :

MR. HENRY BROUGHTON.

MR. CHARLES BROUGHTON

Disinfecter :

MR. JAMES NATT.

Inspector of Drains and Sanitary Fittings for New Houses :

MR. FRANK E. RAIN.

Superintendent of Cleansing Department :

MR. JOHN WILKINSON.

Horsekeeper .

MR. WILLIAM STOBART.

Extra Assistant Inspector of Nuisances :

MR. JOHN E. HARRISON.

Matron to the Borough Sanatorium :

MISS M. A. MACRAE.

Engineer to the Borough Sanatorium :

MR. W. S. OATES.

HEALTH DEPARTMENT,

TOWN HALL,

SUNDERLAND.

**To the Chairman and Members of the
Health Committee.**

GENTLEMEN,

I beg to submit for your consideration my Report on the Health of the Borough and the work of the Health Department for the year 1900.

I am, Gentlemen,

Your obedient Servant,

HAROLD SCURFIELD,

Medical Officer of Health.

July, 1901.

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COUNTY BOROUGH OF SUNDERLAND.

HEALTH DEPARTMENT.

ANNUAL REPORT
FOR THE YEAR 1900.

THE population of the Borough of Sunderland, according to the estimate of the Registrar-General, at the middle of 1900, amounted to 147,398 persons. The distribution of this population among the four Registration Sub-Districts is shown in the following Table.—

REPORT,
1900.
—
Population.

	Population.	Area in Acres.	Density of Population per Acre.
Sunderland	13,811	211	65·4
Bishopwearmouth North..	47,207	1,092	43·2
" South..	54,192	1,362	39·7
Monkwearmouth.....	32,188	727	44·2
Borough	147,398	3,392	43·4

In estimating the population of the Borough, it is assumed that the rate of increase which obtained during the last inter-censal period (1881-1891) still holds good; and, similarly, it is assumed that the population of the Sunderland Sub-District is decreasing, and that the populations of the other Sub-Districts are increasing at the same rate as they did between the census of 1881 and the census of 1891.

The Registrar-General's method is, of course, liable to error, if the populations of the towns happen, from any cause, to alter their rate of increase. The error in Sunderland, fortunately, only amounted to about 2,400.

REPORT,
1900.
—
Population.

In this report the old estimate has been used, and in order to correct the statistics it is necessary to add about 1·4 per cent. to the birth-rate and the death-rates.

This means that the death-rate in the Borough for 1900, instead of being 21·4 as given in this report, was actually 21·7, while the birth-rate was 36·1, instead of 35·6.

In many of the large towns the difference between the estimated and the census population was very great, and sufficient to make the statistics based on the estimated population of little value, especially during the latter years of the decade. This is, of course, a strong argument in favour of a quinquennial census.

An under-estimate of the population of a town has the discouraging effect of keeping the death-rate high, in spite of all the improvements in sanitation that may be introduced, while an over-estimate may have the effect of lulling the inhabitants of the town into a sense of false security.

The following table shows some of the extreme cases of error among the large towns. The first column shows the death-rate in 1900, as published by the Registrar-General in his annual summary ; while the second column shows the death-rate for the same year, according to the census of 1901 :—

NAME OF TOWN.	DEATH-RATE IN 1900.	
	According to Registrar-General's Estimate on Census, 1891.	According to Estimate founded on Census of 1901.
Liverpool	25·7	23·6
Cardiff	13·8	16·4
Swansea	17·1	19·1
Oldham.....	19·6	21·9
Burnley	16·3	19·7
Newcastle-on-Tyne...	19·9	21·5

The following Table shows the number of inhabited houses in the Borough, classified according to rateable value, on the 31st of March, 1900

TABLE B.

District.	Under £5.	£5 under £10.	£10 under £20.	£20 under £30.	£30 under £40.	£40 upwards.	Total.
Sunderland	152	539	528	97	36	67	1149
Bishopwearmouth North	369	4107	3456	483	129	273	8817
" South	96	1598	3245	1411	504	734	7588
Monkwearmouth	309	1602	2350	281	103	94	4739
Total	926	7846	9579	2272	772	1168	22563

REPORT
1900.
—
Population

MARRIAGES.

The number of Marriages registered in the Registration District of Sunderland (which, in addition to the Municipal area, includes the townships of Ford, Tunstall, Ryhope, Fulwell, Southwick, and Hylton) during each of the past 10 years is as under :—

Taken from
the Registrar
General's
Quarterly
Reports.

Year.	No. of Marriages.	Year.	No. of Marriages.
1891	1,363	1896	1,519
1892	1,272	1897	1,590
1893	1,259	1898	1,754
1894	1,356	1899	1,630
1895	1,368	1900	1,623

BIRTHS.

The Births and Birth-rates in each of the registration districts were as follows :—

Brths.

TABLE C.

	Males.	Females.	Total.	Birth- rate.
Sunderland.....	330	347	677	49·0
Bishopwearmouth, North.....	947	857	1,804	38·2
Bishopwearmouth, South.....	794	731	1,525	28·1
Monkwearmouth .	649	601	1,250	38·8
Borough.....	2,720	2,536	5,256	35·6

The Birth-rate in the 33 large towns of England and Wales was 29·4 per 1,000 of the population.

The Birth-rates in the Borough during the 1st, 2nd, 3rd, and 4th quarters were 38·5, 34·9, 37·6, and 31·6 respectively.

TABLE D.

Showing the number of Births of Males and Females, together with the Birth-rates, for the 20 years, 1881 to 1900 :—

Year.	Births.			Birth-Rate.	Year.	Births.			Birth Rate.
	M.	F.	Total.			M.	F.	Total.	
1881	2325	2262	4587	39·5	1891	2457	2488	4945	37·6
1882	2448	2441	4889	41·2	1892	2466	2443	4909	36·9
1883	2543	2511	5054	41·7	1893	2377	2393	4770	35·5
1884	2690	2527	5217	42·3	1894	2419	2341	4760	35·0
1885	2456	2269	4725	37·7	1895	2468	2351	4819	32·1
1886	2396	2225	4621	36·2	1896	2496	2377	4873	34·0
1887	2337	2134	4471	34·5	1897	2519	2386	4905	34·5
1888	2297	2262	4559	34·5	1898	2562	2515	5077	35·3
1889	2463	2355	4818	36·0	1899	2677	2507	5184	35·6
1890	2474	2458	4932	35·5	1900	2720	2536	5256	35·6

DEATHS.

Death-Rate.

The Deaths registered during the year (including the deaths in the Borough Asylum) numbered 3,147, as compared with 3,113 for the year 1899. The Death-rate for 1900 was 21·4, as compared with 21·4 for 1899 and 22·5 for 1897. The Death-rate is, therefore, the same as in the preceding year, and 0·5 per 1,000 less than the average for the preceding 10 years, as shown on Table G.

Position of
Sunderland
among Great
Towns.

Table F. shows that Sunderland still occupies a bad position among the 33 Great Towns, being 26th as regards the Death-rate from all causes; 30th for "Fever"; 16th for Diarrhœa, and 10th (equal to Gateshead) for Infantile Mortality. In 1899 we were 26th for all causes, 28th for "Fever," 17th for Diarrhœa, and 10th for Infantile Mortality.

When correction is made for the new census returns Sunderland still remains 26th among the great towns as regards the death-rate from all causes.

The Death-rates in the quarters during 1900 were as follows :—

1st quarter—	Deaths, 829...	Rate 24·7 per 1,000.
2nd „ „	728... „	19·8 „
3rd „ „	780... „	21·2 „
4th „ „	728... „	19·8 „

REPORT,
1900.

—
Deaths in
Quarters
during 1900.

The analysis of the various causes of death, given in Table G, shows that, as compared with the year before, there has been an increased rate from Measles and Bronchitis, and a decreased rate from Diarrhoea and diseases of the stomach and Enteritis. The increased mortality from Bronchitis was partly due to the severe weather in the first quarter of the year, and partly, no doubt, to neglected measles in the first three quarters of the year. The lessened fatality of the diarrhoeal diseases was probably due to a wet August. When 1900 is compared with the average for the preceding decade, we find that Measles, Scarlet Fever, and Cancer were slightly above the average, Diphtheria and Bronchitis were considerably above the average, while most of the other causes of death were below the average.

TABLE F.

Showing Fever Death-rate, Diarrhoea Death-rate, and Infantile Mortality in Sunderland and in the 33 great Towns in 1900. REPORT,
1900.

NAME OF TOWN.	Fever.	Diarrhoea.	Infantile Mortality, <i>i.e.</i> , Number of Deaths under 1 year to 1000 Births
33 TOWNS	0·20	0·94	172
London	0·17	0·78	160
West Ham	0·18	1·30	189
Croydon	0·07	0·56	132
Brighton	0·09	0·76	166
Portsmouth	0·47	0·85	155
Plymouth.. ..	0·21	0·97	175
Bristol	0·13	0·53	133
Cardiff	0·12	0·42	141
Swansea	0·15	0·58	175
Wolverhampton	0·45	1·39	206
Birmingham.....	0·35	1·21	199
Norwich	0·12	1·26	178
Leicester	0·12	1·34	175
Nottingham	0·33	1·08	196
Derby	0·19	0·47	174
Birkenhead	0·14	0·86	100
Liverpool	0·21	1·44	186
Bolton	0·27	1·15	171
Manchester	0·14	1·39	189
Salford	0·31	1·41	207
Oldham.....	0·11	0·53	172
Burnley	0·14	1·22	205
Blackburn	0·22	1·01	220
Preston.....	0·39	1·67	236
Huddersfield	0·18	0·43	132
Halifax.....	0·22	0·23	132
Bradford	0·23	0·29	141
Leeds	0·20	1·05	183
Sheffield	0·28	1·52	200
Hull	0·21	1·68	183
Sunderland	0·37	0·94	169
Gateshead	0·08	0·85	169
Newcastle.....	0·08	0·37	170

Taken from the Annual Summary of the Registrar General.

REPORT,
1900.

The figures given below show the relative position of Sunderland compared with the large towns of England and Wales:—

Taken from the Annual Summary of the Registrar General.	1869— 3rd	with a Death-rate of 22·9 (among 17 towns).
	1870— 1st	20·9 "
	1871—18th	36·5 (among 18 towns).
	1872—13th	26·5 "
	1873— 4th	22·8 "
	1874— 4th	23·4 "
	1875— 4th	22·5 (among 20 towns).
	1876— 2nd	21·0 "
	1877—10th	22·9 "
	1878—15th	25·9 "
	1879— 8th	22·3 "
	1880—14th (and equal to Leicester)	25·0 "
	1881— 8th	20·9 "
	1882—25th (and equal to Liverpool)	26·5 (among 28 towns).
	1883—23rd (and equal to Blackburn)	24·5 "
	1884—16th (and equal to Newcastle)	23·1 "
	1885—23rd (and equal to Liverpool)	23·8 "
	1886— 7th	19·5 "
	1887—8th (and equal to Birmingham)	19·7 "
	1888— 9th	18·0 "
	1889—23rd	22·8 "
	1890—18th (and equal to Halifax)	22·5 "
	1891—22nd	25·0 "
	1892—26th	20·9 (among 33 towns).
	1893—26th	22·4 "
	1894—30th	20·6 "
	1895—24th	21·7 "
	1896—25th	19·8 "
	1897—24th	19·7 "
	1898— 31st	22·6 "
	1899—26th	21·5 "
1900—26th	21·4 "	

TABLE G.—Showing the Death-Rates per 1,000,000 from various Diseases, and Infantile Mortality, in Sunderland and in England.

YEAR.	DEATH-RATE PER 1,000,000.																												Infantile Mortality, i.e. Number of Deaths under 1 year per 1,000 births.						
	All Causes.		Measles.		Scarlet Fever.		Diphtheria.		Whooping Cough.		Enteric Fever.		Diarrhoea.		Disease of the Stomach and Enteritis.		Rheumatic Fever, Rheumatism of the Heart, and Rheumatism.		Diseases of the Circulatory System.		Cancer.		Phthisis.		Other Tubercular Diseases.		Diseases of the Respiratory System.			Bronchitis.		Pneumonia.		Infantile Mortality.	
	Sunderland.	England.	Sunderland.	England.	Sunderland.	England.	Sunderland.	England.	Sunderland.	England.	Sunderland.	England.	Sunderland.	England.	Sunderland.	England.	Sunderland.	England.	Sunderland.	England.	Sunderland.	England.	Sunderland.	England.	Sunderland.	England.	Sunderland.	England.		Sunderland.	England.	Sunderland.	England.		
1890	23740	18547	144	439	544	242	83	179	393	478	265	179	998	696	234	316	76	117	1799	1757	507	676	1807	1683	1187	694	5957	4229	3024	3333	2698	1404	175	151	
1891	24927	20216	1126	436	198	171	60	173	304	468	282	168	966	469	304	315	76	125	1735	1826	753	692	1659	1599	1271	701	5586	4595	3636	3593	2229	1473	178	149	
1892	20882	18282	910	469	150	190	60	222	744	455	361	137	602	565	301	329	105	121	1444	1684	587	690	1594	1468	1136	668	4144	3969	3000	2267	1902	1351	189	148	
1893	22473	19170	126	374	193	335	37	318	171	342	802	229	1917	654	483	446	67	134	1687	1630	550	711	1508	1468	1285	677	4309	3697	1931	1996	2065	1386	189	159	
1894	20683	16594	873	391	183	167	44	292	477	411	543	159	829	350	308	342	59	115	1710	1556	675	713	1732	1385	976	588	4162	3078	1754	1642	2069	1084	168	137	
1895	21713	18727	58	378	80	149	58	299	450	316	937	175	1873	874	718	512	29	163	1612	1688	595	765	1692	1398	1031	665	3811	3527	3003	1972	1481	1172	191	161	
1896	19436	17167	965	372	196	178	41	292	503	431	377	166	825	546	489	474	119	115	1363	1579	685	764	1447	1307	671	585	3628	3034	1656	1539	1607	1149	161	148	
1897	19542	17436	436	409	77	147	35	246	535	368	253	156	1281	849	753	689	84	119	1661	1617	746	787	1334	1341	605	530	3635	2953	1569	1508	1879	1122	168	156	
1898	22497	17536	612	421	202	113	76	244	473	324	478	182	1821	923	1224	684	83	106	1745	1697	751	802	1543	1317	855	599	4099	2919	1808	1487	1924	1129	332	199	
1899	21378	18445	288	311	275	115	62	287	391	365	350	199	1392	909	1277	811	48	111	1703	1672	700	672	1614	1554	803	575	4045	3290	2177	1913	1683	1255	176	163	
Average 1890-1899	21729	18370	553	419	209	170	55	251	444	359	464	175	1231	704	609	481	74	115	1645	1699	654	726	1613	1451	982	634	4327	3508	2095	1836	1973	1232	176	153	
1900	21359	18395	688	385	264	117	149	229	264	342	379	*174	1017	847	629	—	81	—	1633	—	725	—	1596	—	692	—	4755	—	2720	—	1762	—	167	154	

* This figure includes Typhus and Continued Fever.

Date	Description	Debit	Credit	Balance
1880	To Balance			100.00
1881	By Cash		50.00	150.00
1882	To Cash	25.00		175.00
1883	By Cash		75.00	250.00
1884	To Cash	100.00		350.00
1885	By Cash		150.00	500.00
1886	To Cash	200.00		700.00
1887	By Cash		300.00	1000.00
1888	To Cash	400.00		1400.00
1889	By Cash		500.00	1900.00
1890	To Cash	600.00		2500.00

TABLE J.

Deaths in the four quarters of 1900, compared with those in the four quarters of 1899, from divers causes.

REPORT,
1900.

DISEASE.	1900.				1899.				1900	1899
	1st Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.	1st Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.	Total. (52 Weeks.)	Total. (52 Weeks.)
Smallpox .....	...	...	...	...	...	...	...	...	...	...
Measles	22	36	18	11	14	15	8	5	89	42
Scarlet Fever	7	6	14	12	8	7	9	16	39	40
Diphtheria	6	6	4	6	6	...	1	2	22	9
Whooping Cough..	3	2	9	16	30	16	11	...	30	57
Typhus Fever.....	...	...	...	...	...	...	...	...	...	...
Enteric Fever.....	6	11	18	21	7	10	17	17	56	51
Continued Fever...	...	...	...	...	2	2	...	2	...	6
Diarrhœa	5	11	93	41	2	8	148	17	150	175
Syphilis	4	5	3	1	4	4	4	2	13	14
Puerperal Fever...	1	...	1	...	4	...	1	2	2	7
Chronic Alcoholism	3	2	4	3	3	1	2	...	12	6
Rheumatism and Rheumatic Fever	1	1	1	3	2	1	1	3	6	7
Cancer	27	26	28	26	21	33	28	20	107	102
Tabes Mesenterica	8	7	4	9	7	13	15	17	28	52
Tubercular Meningitis	7	9	4	3	19	7	5	5	23	36
Phthisis	66	57	50	49	73	59	49	54	222	235
Other Tubercular Diseases	11	13	15	12	8	9	6	6	51	29
Premature Birth...	22	20	27	28	22	34	19	21	97	96
Old Age	64	38	38	28	45	47	33	48	168	173
Diseases of the Nervous System	117	102	83	81	89	87	84	73	383	333
Diseases of the Heart	75	50	59	57	67	51	42	70	241	230
Bronchitis	179	91	58	73	126	78	26	87	401	317
Pneumonia and Pleuro Pneumonia	54	47	38	23	45	39	25	35	162	144
Broncho Pneumonia	23	19	21	35	32	21	15	33	98	101
Diseases of the Digestive System	36	39	59	41	48	47	133	84	175	312
Inflammation of the Kidneys and Bright's Disease	13	12	15	17	13	19	13	18	57	63
Accident	16	23	23	31	29	26	26	22	93	103
Homicide.....	...	1	...	...	1	...	1	1	1	3
Suicide	1	4	2	2	1	4	...	2	9	7

REPORT,
1900.
—
The Zymotic
Diseases.

The Death-rate from the "principal Zymotic Diseases" was 2·52 per 1,000, as compared with 2·50 for the 33 great towns in 1900, and 2·50 for Sunderland in 1899.

The following table shows the cases notified, and the deaths for several years past.

TABLE K.

Cases of Infectious Diseases notified since 1890 (Compulsory Notification began in Sunderland in September, 1885).

Year.	Smallpox.	Scarlet Fever.	Diphtheria.	Membranous Croup.	Enteric Fever.	Typhus Fever.	Continued Fever.	Erysipelas.
1890	...	921	54	...	311	8	102	...
1891	...	445	24	...	271	35	85	...
1892	2	409	38	...	284	56	104	...
1893	36	967	18	...	801	43	117	...
1894	8	706	23	...	588	10	80	...
1895	1	470	26	...	840	2	99	..
1896	1	605	26	...	260	...	46	...
1897	3	394	32	...	203	1	29	...
1898	5	726	26	...	452	1	50	...
1899	2	949	19	...	297	...	48	...
1900	2	754	33	17	301	...	32	62
Total...	60	7346	319	17	4608	156	792	62

TABLE L.

The annexed Return shows the deaths from infectious diseases for 23 years (1878 to 1900) :—

REPORT,
1900.

Deaths from
Infectious
Diseases,
1878-1900.

Years.	Smallpox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Enteric Fever.	Typhus Fever.	Continued Fever.	Diarrhoea.
1878	1	93	186	14	175	30	23	6	204
1879	...	1	243	10	44	23	4	6	73
1880	...	99	312	3	73	27	15	10	209
1881	...	3	145	8	40	22	5	5	90
1882	1	191	168	18	106	42	34	11	129
1883	52	16	38	18	22	33	41	4	85
1884	84	7	46	13	95	13	11	4	150
1885	17	385	106	12	32	16	16	4	82
1886	...	4	27	5	51	13	7	6	194
1887	...	168	17	7	59	30	7	6	111
1888	1	4	19	16	46	20	7	6	59
1889	...	126	38	19	68	28	8	1	170
1890	...	19	72	11	52	35	6	4	132
1891	...	148	26	8	40	37	6	12	128
1892	...	121	20	8	99	48	7	5	81
1893	5	17	26	5	23	108	18	9	258
1894	...	119	25	6	65	74	5	4	113
1895	...	8	11	8	62	129	2	3	258
1896	...	138	28	6	72	54	...	...	118
1897	...	62	11	5	76	36	1	2	182
1898	1	88	29	11	68	70	...	...	262
1899	...	42	40	9	57	51	...	6	175
1900	...	87	39	22	30	56	...	...	150

TABLE M

REPORT,
1900.

List of Privy-Midden towns, *i.e.*, towns in which the number of privy-middens approximates or exceeds 5 per cent. of the population :—

TOWNS.	POPULATION, 1900.	DEATH-RATES PER 1000 IN 1900 FROM		
		ALL CAUSES.	"FEVER."	DIARRHEA.
Aston Manor	85,924	15·7	0·30	1·56
Ashton-under-Lyne	43,910	20·9	0·32	0·87
Barnsley	41,609	21·0	0·17	1·08
Bolton	164,240	19·5	0·27	1·15
Bradford	291,535	16·4	0·23	0·29
Burnley	116,730	16·3	0·14	1·22
Bury	59,621	18·8	0·13	0·67
Darlington	41,015	18·3	0·15	0·73
Derby	107,991	17·5	0·19	0·47
Dudley ..	45,258	21·3	0·42	1·35
Gateshead	109,403	19·0	0·08	0·85
Great Yarmouth.....	51,834	21·4	0·25	0·89
Hull	238,736	19·7	0·21	1·68
Ipswich.....	64,638	18·9	0·19	1·10
Leeds	431,287	20·0	0·20	1·05
Middlesbro'	99,725	24·0	0·20	1·02
Norwich	114,855	17·6	0·12	1·26
Preston	118,902	24·0	0·39	1·67
Rotherham	50,145	19·8	0·16	1·68
St. Helens	89,000	21·5	0·25	1·53
Salford	220,816	25·1	0·31	1·41
Sheffield	365,922	22·6	0·28	1·52
Smethwick	50,672	18·2	0·22	0·79
South Shields	105,478	19·5	0·18	0·54
Sunderland ...	147,398	21·4	0·37	0·94
Stockport.....	81,877	21·5	0·22	1·05
Stockton	58,530	17·4	0·12	0·82
Walsall	85,535	19·3	0·16	1·27
West Bromwich	62,639	22·1	0·37	1·37
West Hartlepool.....	60,359	16·4	0·08	0·45
York	73,263	21·7	0·51	2·08
Average .....	.....	19·9	0·23	1·11

TABLE N.

REPORT,
1900.

List of Water-Closet Towns.

TOWNS.	POPULATION, 1900.	DEATH-RATES PER 1000 IN 1900 FROM		
		ALL CAUSES.	"FEVER."	DIARRHŒA.
Brighton	124,148	17·8	·09	·76
Bristol	324,973	16·7	·13	·53
Cardiff	194,247	13·8	·12	·42
Carlisle	41,736	19·3	·05	·55
Chester	37,395	19·6	·13	·16
Coventry	68,179	17·8	·12	1·23
Croydon	131,186	14·6	·07	·56
Exeter	37,404	19·4	·40	·80
Hornsey	69,493	9·1	·09	·35
Leyton	97,298	12·8	·16	·99
Liverpool	634,780	25·7	·21	1·44
London	4,589,129	18·8	·17	·78
Merthyr Tydvil ...	69,200	23·2	·58	·77
Newport (Mon.)...	75,771	16·5	·11	·26
Oxford	50,762	14·2	·08	·18
Plymouth	102,101	20·8	·21	·97
Portsmouth	194,955	17·3	·47	·85
Reading	72,328	14·0	·03	·84
Rhondda	135,529	16·6	·18	·66
Southampton	91,589	19·8	·16	·52
Tottenham	97,081	16·0	·10	·90
Walthamstow	93,448	13·6	·07	1·08
West Ham	314,472	15·9	·18	1·30
Willesden	117,019	12·2	·13	·68
Worcester.....	45,414	19·9	·02	·66
Averages ... ..	.....	17·0	·16	·73

TABLE O.
Showing the cases of Infectious Diseases notified in each District in each Quarter, and the Deaths therefrom in 1900.

DISEASES.	Sunderland Sub-District.				Bishopwearmouth North.				Bishopwearmouth South.				Monkwearmouth.				Borough.									
	Quarters.				Quarters.				Quarters.				Quarters.				Quarters.									
	1st	2nd	3rd	4th	Totals.	1st	2nd	3rd	4th	Totals.	1st	2nd	3rd	4th	Totals.	1st	2nd	3rd	4th	Totals.						
Smallpox	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	2					
{ Cases				
{ Deaths				
Scarlet Fever	4	29	34	57	124	63	42	97	77	279	19	47	49	124	239	34	15	19	44	112	120	133	199	302	754	
{ Cases
{ Deaths	2	3	9	14	3	1	5	3	12	3	2	3	..	8	1	1	2	1	5	7	6	14	12	39	
Enteric Fever	5	14	22	11	52	10	17	52	30	109	7	18	40	30	95	7	8	7	23	45	29	57	121	94	301	
{ Cases
{ Deaths	2	4	1	7	5	5	8	8	26	..	3	5	8	16	1	1	1	4	7	6	11	18	21	56	
Typhus Fever
{ Cases
{ Deaths
Continued Fever	1	1	..	2	3	8	6	6	23	..	..	1	..	1	1	2	2	1	6	..	4	11	10	7	32
{ Cases
{ Deaths
Diphtheria	2	..	5	7	7	6	3	6	22	2	2	3	4	11	4	1	3	2	10	12	11	9	17	50	
{ Cases
{ Deaths	2	3	2	3	1	3	9	2	2	2	1	7	2	1	..	..	3	6	6	4	6	22	
Puerperal Fever	1	1	..	2	1	..	..	..	1	1	..	..	..	1	1	..	..	..	1	3	1	1	..	5	
{ Cases
{ Deaths	1	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	1	..	1	..	2	
Totals	10	47	58	73	188	84	73	158	119	434	29	67	93	158	347	47	26	31	71	175	170	213	340	421	1144	
{ Cases
{ Deaths	4	7	12	25	10	10	14	14	48	5	7	10	9	31	4	3	3	5	15	19	23	37	40	119	

CONSIDERATION OF VARIOUS DISEASES.

Two cases of Small-pox were notified during the year. The first was a sailor, who arrived in the Tyne on January 6th, and came on to Sunderland two days later. The second was a fireman, living in Devonshire Street, who probably contracted the disease in Bilbao. The other nine occupants of the house in Devonshire Street were removed to the hospital, where they were re-vaccinated, had disinfectant baths, and had their clothes disinfected, the house being thoroughly disinfected during their absence. No spread of the infection occurred in either of the two cases.

REPORT,
1900.

Smallpox.

There were about 200 fewer cases of Scarlet Fever than last year, but the deaths were only one less in number, the type of the disease having become more severe. Thirty-nine deaths out of 754 cases gives a case fatality of 5.2 per cent.

Scarlet Fever.

There were 33 cases notified, with 22 deaths. The death-rate from Diphtheria, as shown in Table G, is nearly thrice the average for the past ten years. Sunderland has hitherto been remarkably free from Diphtheria. In several towns the antitoxin is supplied by the Sanitary Authority both for curative and preventive purposes. The preventive injections are used, when a case has been removed to the Hospital, for the other persons in the house. Since September last, I have been authorised to supply antitoxin free of charge, in the case of patients in poor circumstances. Medical opinion is now almost unanimous as to the very great value of the antitoxin in the treatment of Diphtheria, provided it is used early enough. As it is practically a harmless remedy, it is advisable to inject the serum in doubtful cases as early as possible, without waiting to ascertain the result of a bacteriological examination. A supply of the antitoxin can be obtained at the Health Office with very little delay.

Diphtheria.

REPORT,
1900.

—

The extraordinary number of deaths from Diphtheria, in proportion to cases notified (viz. : 65 per cent.), makes it probable that, Diphtheria having been so rare in Sunderland, many of the milder cases have been overlooked.

But after allowing for that source of error, the case fatality must have been abnormally high. Since the introduction of the antitoxin treatment, the case fatality of Diphtheria in the London Hospitals has been reduced from 30 per cent. to 18 per cent., and, in Chicago, where this treatment is completely carried out by means of specially appointed Medical Inspectors, the case fatality is said to have been reduced from 35 per cent. to 6·7 per cent.

Enteric, or
Typhoid and
Continued
Fever.

The prevalence of Typhoid Fever was much the same as in 1899. A few years ago it became fashionable in the South of England, where privy-midden towns are rare, to regard this as almost entirely a water-borne disease. More lately, however, the importance of soil pollution, with dust and flies as distributors of the infection, has been demonstrated.

In the case of the Boer War and the Spanish-American War, the greatest importance has been attributed by the Army Medical Officers to the spread of the infection of Typhoid Fever by the agency of dust and flies from infected latrines and privy pits. An ocular demonstration was provided in the case of some of the American camps of the ease with which flies can infect the food, for, when lime had recently been sprinkled on the latrines and privy-pits, flies, with their feet whitened with lime, were seen walking over the food.

When a privy-midden town is once infected with Typhoid Fever, as is the case with Sunderland, soil pollution, with its sub-agents, flies and infected dust, are probably the chief means of rendering the disease endemic, and a properly carried-out water-carriage system is the only remedy.

The water-carriage system has now been adopted for all new property, and as soon as the Bye-laws, made under the Provisional Order, have been approved, a scheme should be undertaken for the conversion of all the privy-middens in the Borough into water-closets. This should be done by dealing with the various sewerage districts in rotation.

There was no reason to blame milk for causing Typhoid Fever during the year, and the milk supply of households infected with Typhoid Fever was as follows:—

One dairy supplied 11* households.

Three dairies ,, 8* ,, each.

Two dairies ,, 7* ,, "

One dairy ,, 6* ,, "

Five dairies ,, 5* ,, each.

Two ,, ,, 4 ,, "

Eleven ,, ,, 3 ,, "

Twenty-seven ,, 2 ,, "

Forty-two ,, 1 ,, "

In 17 households the milk supply was "man-at-the-door" or "anywhere," 137 houses used condensed milk, and 6 households had no milk supply.

On account of the occurrence of cases of Arsenical poisoning in Manchester and other places during the latter part of the year, I made enquiries which showed that there was no reason to suppose any illnesses of this nature were being set up in Ssnderland.

I was informed by the Medical Officers of the Workhouse and the Infirmary, that there was among the admissions to those institutions no unusual prevalence of cases of multiple Neuritis, or other forms of Neuritis which might be traceable to Arsenical poisoning.

There was also nothing suggestive about the death returns of this period, and I further ascertained that the glucose which was the cause of the mischief, was not used by the brewers in this district.

NOTE.—These dairies have large businesses, and the cases of Typhoid were distributed throughout the year.

REPORT,
1900.

Milk supply
of houses in-
fected with
Typhoid
Fever.

Diseases of
the Nervous
System.

REPORT, THE BOROUGH SANATORIUM FOR
1900.
—
INFECTIOUS DISEASES.

Infectious
Diseases.

During the year 436 cases of Infectious Disease were admitted to the Sanatorium. The following table shows the admissions during the last eleven years :—

TABLE P.

	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900
Smallpox ...	...	..	2	36	8	1	...	4	6	2	2
Measles .....	...	5	1	...	4	1	...	...	...	...	...
Scarlet Fever	92	57	77	228	187	130	213	104	188	257	226
Diphtheria ...	1	...	3	1	...	1	1	3	1	...	...
Typhus Fever	2	27	48	31	8	1	...	...	...	...	...
Enteric & Continued Fever.	50	94	89	314	271	343	123	117	238	195	208
Totals...	145	183	220	610	478	477	337	228	433	454	436

The following table shows that 37·9 per cent. of the notified cases were treated in the Sanatorium, being 3·9 more than in the previous year.

TABLE Q.

Showing the percentage of notified cases, which were treated in the Hospital during 1899 and 1900 :—

REPORT,
1900.

DISEASE.	1899.			1900.		
	Cases Notified.	Admitted to Hospital.		Cases Notified.	Admitted to Hospital.	
		Number.	Percentage of Total Cases Notified.		Number.	Percentage of Total Cases Notified.
Smallpox	2	2	100	2	2	100
Enteric Fever	297	173	58·2	301	186	65·3
Typhus Fever .....	...	...	...	...	...	...
Continued Fever	48	22	45·8	32	22	68·7
Scarlet Fever	949	257	27·1	754	226	29·9
Diphtheria	19	...	...	50	...	...
TOTALS	1315	454	34	1149	436	37·9

Of the 208 cases of Enteric and Continued Fever treated at the Sanatorium during the year 30 died, being 14·4 per cent. of the cases treated; while of the 125 cases treated at home 26 died, being 20·8 per cent. of the cases. It will thus be seen that the fatality of Enteric Fever has been less for patients treated in the Sanatorium than for those treated at home.

Comparison of
Sanatorium
and Home
Treatment.

The following figures show the death-rate in the Sanatorium for the past eight years :—

1893—	Patients admitted,	513,	of whom	48	died,	or	9·3	per cent.
1894—	“	“	420,	“	28	“	“	6·6
1895—	“	“	446,	“	49	“	“	11·2
1896—	“	“	337,	“	24	“	“	7·1
1897—	“	“	228,	“	18	“	“	7·9
1898—	“	“	433,	“	40	“	“	9·2
1899—	“	“	454,	“	36	“	“	7·9
1900—	“	“	436,	“	42	“	“	9·6

CLEANSING DEPARTMENT.

REPORT,
1900.
—
Cleansing
Department.

At the end of the year there was in the Borough about 3,460 houses supplied by water-closets only, about 600 furnished with water-closets and privies and ashpits, about 500 with water-closets and ash-closets, and about 105 with waste water-closets. There were about 11,000 supplied by privies and ashpits, about 5,100 by ash-closets, about 800 by pan-closets, and about 58 houses had no conveniences at all.

Table R. shows a considerable increase in the work done in this department. There is an increase in the number of inhabited houses, namely, 774, and an increase of 4 in the number of horses employed daily in cleansing ashpits.

The number of applications to have ashpits cleansed was 1,130, as compared with 1,046 for the previous year. The number of applications is a good gauge of the regularity shown in the cleansing of the ashpits.

The last column in Table R shows what great improvement has been effected in the last three years as compared with previous years.

The decrease in the number of loads of road sweepings removed (last year the number was 35,488) is due to the fact that the cleansing of the macadamized roads was transferred to the Borough Engineer, in order that the cleansing and repairing of these roads might be in the same hands.

Return showing the number of Ash-pits Cleansed ;
also Inhabited Houses, Population, &c., for Eleven
Years (1890-1900).

REPORT
1900.
—
Cleansing
Depart-
ment.

TABLE R.

Year.	No. of Inhabited Houses.	No. of Ash-pits Cleansed.	No. of Loads of Refuse Removed from			Total No. of Loads of Domestic Refuse, &c., Removed.	Average No. of Horses Employed Daily.	Applications received at Office to empty Ash-pits.
			Ash-pits and Ash-closets.	Pan-Closets	Ash-pans and Scuttles, &c.			
1890		100,987	*56,376	7,463	6,650	70,489	30½	4,945
1891	18,590	119,156	59,361	6,655	6,503	72,519	30½	4,912
1892	19,098	132,575	61,957	6,372	6,580	74,909	30½	4,569
1893	19,476	149,717	57,032	7,675	6,528	71,235	30½	4,584
1894	19,540	148,884	57,198	8,351	6,764	72,313	31½	4,716
1895	19,953	146,864	59,419	8,442	6,022	73,883	34¼	4,719
1896	20,684	162,908	*58,215	9,128	7,786	75,129	36	3,159
1897	20,982	195,892	56,074	8,644	9,835	74,553	37½	1,841
1898	21,257	228,279	54,186	9,321	10,798	74,285	38	1,029
1899	21,789	229,343	52,618	9,986	12,294	74,898	40½	1,046
1900	22,563	238,860	53,737	9,721	14,892	78,330	44½	1,130

* 53 weeks in these years.

22,588 loads of road sweepings also were removed during the year.

The number of barrels and tanks of water used for street watering purposes was 6,351.

During the twelve months 64,027 loads of refuse were sent to sea by hopper.

The column "No. of Ashpits Cleansed" only includes ash-pits and ash-closets. From these, 53,735 loads were removed during the year, or about 4½ ash-pits and ash-closets to a load, on the average. The pan-closets (some of which are emptied every day, and others every other day) are not included in this column.

In addition to the loads of refuse referred to in the table, 39,396 bags of paper have been collected and burnt. Previous to the separate collection of paper, this would have been put into the ash-pits. This fact, and the collection of more refuse during the day time from ash-pans and scuttles, accounts for the reduction in the loads removed from ash-pits and ash-closets.

TABLE S.

REPORT,
1900.

Showing the number of Ashpits reported full by the Inspectors, and applications made at the Office to have Ashpits emptied, each month during 1899 and 1900.

Month.	1899			1900		
	Reported by Inspector.	Applications at Office.	Total.	Reported by Inspector.	Applications at Office.	Total.
January	52	114	166	37	163	200
February	31	106	137	37	114	151
March	28	92	120	19	105	124
April	19	105	248	23	150	173
May	10	92	102	8	115	123
June	14	76	90	10	90	100
July	11	73	84	5	48	53
August	16	70	86	9	55	64
September	10	46	56	12	67	79
October	12	47	59	15	47	62
November	5	55	60	16	62	78
December	8	70	78	13	114	127
Totals	240	1,046	1,286	204	1,130	1,334

During 1899, 655 applications were received to have ashpits cleansed, which, either owing to their being locked up, or containing horse manure, the Corporation men were not in the habit of cleansing regularly. During 1899, 239 ashpits were specially cleansed in order that they might be repaired or altered.

During 1900, 749 applications were received to have ashpits cleansed, which, either owing to their being locked up, or containing horse manure, the Corporation men were not in the habit of cleansing regularly. During 1899, 142 ashpits were specially cleansed in order that they might be repaired or altered.

SANITARY ADMINISTRATION.

During the year 28 houses were reported, under the Housing of the Working Classes Act, as being "unfit for human habitation." Of this number 23 were put into a habitable state of repair, 1 was voluntarily closed by the owner, and 4 "closing orders" were obtained from the magistrates.

REPORT,
1900.
—
Housing of
the Working
Classes Act,
1890.

The following is the Report of Drainage Work performed by the Inspector of the Drains and Sanitary Fittings of new houses :—

Report of the
inspection
of Drains, &c.,
of New
Houses.

Number of premises visited	...	...	...	2517
Number of visits made	...	...	...	4868
	Water.	Chemicals.	Smoke.	Total.
Number of drains tested	2438	238	159	2835
Number of tests applied	2543	240	186	2969
Average number of tests per drain	...	...	...	1.05
Number of certificates sent to Borough Surveyor				427
Number of cases where it was found necessary to				
order concrete foundations for drains	...	...	...	501
Approximate length of drains laid	...	...	...	23,389 ft.

REPORT,
1900.
—
One of the
needs of
Sunderland.

One of the needs of Sunderland is a better appreciation on the part of a certain section of the public of how the streets should be treated.

It is customary in many parts of the town to empty all kinds of refuse, including night soil, into the street catchpits, a lot of the refuse being left behind on the grates, and giving rise to a great nuisance. That the catchpits are not intended for sinks or cesspools, and are only meant to intercept the road mud and grit that is washed in by rain, does not seem to be generally understood. Apart from the disgusting nuisance caused by the state of the grates, the nuisance caused by the emptying of the catchpits is very great when they have been used as repositories for all kinds of filth.

The existence of houses without conveniences is not the reason for this practice. It is true there are still a very few houses in the Sunderland Sub-District without conveniences, but the practice complained of prevails all over the town, and seems to be due to carelessness and ignorance. The few houses without conveniences would have been closed before now had it not been for the lack of housing accommodation in the East End. At the time of writing, the contract for the Hat Case buildings has been let, and in a year or so it will be possible to deal satisfactorily with houses which are unfit for habitation.

It is also a common practice to empty vegetable refuse and household slops on to the streets and in the street gutters.

Another custom is to empty the soapy water, after washing operations, into the gutter, and let it trickle down the street to the nearest catchpit.

There are other practices which indicate this want of respect for the streets, and which would make the town look dirty if all the streets in it were swept every day.

Thus, it is quite a common thing for shop-keepers to brush their shops out on to the streets, instead of brushing the sweepings into a shovel and putting them in the dust-bin.

Frequently, crates or lorries are unpacked, and the streets littered with paper and straw, without any attempt to clean up afterwards.

Again, advertisements are practically scattered about the streets by the men employed to distribute them.

Advertisement hoardings contribute towards the paper nuisance, if not attended to in wet and stormy weather. It would be a good thing if the lessees of hoardings were required to obtain licenses, which could be cancelled like common lodging-house licenses in the case of an unsatisfactory proprietor.

The following Police Notice has just been issued, and is the precursor of a campaign on the part of the police against the persons who commit such offences as have been mentioned. There can be no doubt that a systematic series of prosecutions will do a great deal towards effecting an improvement:—

COUNTY BOROUGH



OF SUNDERLAND.

POLICE NOTICE.

CAUTION.

Householders and the Public generally are hereby warned against the practice of throwing upon the streets, or into the street catch-pits, Paper, Straw, Broken Glass, Slops, Vegetable Refuse, Night Soil, and other kinds of offensive matter.

The attention of Shopkeepers is also drawn to the practice, when sweeping their shops, of leaving the sweepings upon the footpath or carriageway.

This is to give Notice that the above practices are an Offence, and the Police have received instructions to stringently enforce the provisions of the Towns Police Clauses Act, and all other Acts which relate to the subjects referred to herein.

By order,
WILLIAM CARTER, Chief Constable.

Central Police Station,
Sunderland, 26th June, 1901.

REPORT,
1900.

—
The Sale of
Food and
Drugs Acts.

The Analyst's report shows that the milk supply of Sunderland is in a shocking state. Out of 104 samples of milk, Mr. Pattinson is only able to say that 41 are genuine !

Women
Health
Visitors.

Many towns now appoint women health visitors. Amongst neighbouring towns who have just done so are Newcastle-upon-Tyne and Middlesbrough.

Dr. Alfred Hill, the Medical Officer of Health of Birmingham, gives a detailed description of the work of the women health visitors in his Annual Report for 1900, and the report is of such interest that I give the extract in full :—

WOMEN HEALTH VISITORS.

Extract from
Birmingham
Report.

The work done by Women Health Visitors has recently excited an extraordinary amount of interest in various parts of the country, and last year I received numerous enquiries from Medical Officers of Health and others interested in sanitary matters as to the way in which our Visitors work and the success they meet with.

I propose, therefore, to describe in some detail the work done by the Health Visitors last year, partly for the information of your Committee and partly because I know that other Sanitary Authorities will be glad to have a full account of it.

Health
Visitors'
duties.

The instructions given to the Visitors when they commenced their duties were as follows :—

To visit from house to house in such localities as the Medical Officer of Health shall direct.

To carry with them disinfectant powder, and use it when required.

To direct the attention of those they visit to the evils of bad smells, want of fresh air, and dirty conditions of all kinds.

To give hints to mothers on the feeding and clothing of their children, and to use their influence in getting children sent regularly to school.

In cases of sickness, to assist in promoting the comfort of the invalid by advice and personal help.

To urge, on all possible occasions, the importance of cleanliness, thrift and temperance.

They must note—

- (1) The general sanitary condition of the house.
 - (a) The number of rooms and of occupants.
 - (b) The existence of bad smells, and whether they arise from deficient ventilation, from bad drainage, or from accumulation of filth.
 - (c) The state of the walls and floors : whether dirty from the tenant's or landlord's neglect, or in need of repair.
- (2) The general mode of living, particularly with regard to personal and domestic cleanliness.
- (3) The feeding and clothing of children, especially of those under two years old. Whether the baby is nursed by the mother, or fed by hand ; if the latter, what it is fed upon.
- (4) Any case of illness in the house—
 - (a) Nature of the disease.
 - (b) Whether there is a medical man in attendance.
 - (c) How far the necessary sanitary precautions are being carried out.

When this work was commenced in 1899 there were but four Visitors, and only those streets were visited which had a very large proportion of houses let at about 3/6 per week. These, of course, are the poorest streets in the town ; they are the streets in which unhealthy conditions are most common ; and, as I have shown more than once, they are also the streets in which terribly high death-rates are recorded. At the beginning of the fourth quarter, 1900, the number of Health Visitors was increased to eight, and it then became possible to include a number of streets which had previously been left untouched.

REPORT,
1900.

—
Extract from
Birmingham
Report.

REPORT,
1900.
—
Extract from
Birmingham
Report.

The number of primary visits paid during the past year was 17,832, and the conditions discovered amply justify your Committee in taking up this work. In addition to the primary visits 3,929 re-visits were paid to houses where this was necessary on account of want of cleanliness, illness, or some other cause.

It may be well to state here that the work of the Health Visitors is quite different from that of the Inspector of Nuisances and Assistant Inspectors. Their duty is primarily to show people how to make the best of the existing conditions in their homes, how to bring up their children, and how to nurse their sick. They are not intended to inspect the sanitary arrangements at the houses they visit, although they are instructed to note any obvious defects, in order that these may be reported to me and referred to the Inspector of Nuisances, whose duty it is to attend to them.

Health
Visitors and
ventilation.

One of the most noticeable features at the houses visited is the utter disregard for ventilation. Most of the houses are necessarily badly ventilated because they have neither back doors nor windows, and very many of them have but little air space even in front. It is, therefore, most desirable that the windows should be opened as much as possible. But unfortunately this is very often not done, and last year it was necessary to tell the tenants to open the windows at 3,454 of the houses visited, and to unstop the chimney at 920. An open chimney, of course, acts as an excellent outlet for bad air, and every room ought to be provided with one, which I am sorry to say is not the case.

Health
Visitors and
want of
cleanliness.

At 2,402 houses the tenants were told to clean the floors, etc. In some cases the floors were in an indescribable condition. Wherever cleaning is ordered re-visits are paid to see that the work has been done.

Health
Visitors and
neglected bed-
rooms.

Another point to which attention has to be directed is the early removal of slops from the bedrooms. This is a matter which is very much neglected, and was ordered

at 3,153 houses last year. I suppose that in most cases this work would be done in the evening, but it is not at all uncommon to find an accumulation of solid and liquid excreta evidently of some days standing and necessarily in a most offensive and unhealthy condition. Moreover it is evident that in some instances chamber utensils are used in the day time, as they are found in the downstairs rooms and sometimes even in the pantry. It appears probable that this most unhealthy habit is induced in some cases by the fact that the privy is situated some distance away from the house. There are, of course, hundreds of houses in Birmingham the inmates of which have to pass along a part of the street, down an entry and across a yard to reach the privy provided for their use. The inadequacy and publicity of the closet accommodation is indeed one of the glaring faults connected with our court houses.

Enquiry into the sleeping accommodation is a part of the Health Visitors' work. It is the custom of the Visitors to ask how many persons sleep in each room and in each bed, and advice is given as to the best means of utilizing whatever accommodation is available. At 257 houses too many persons were found to be sleeping in one room, although another bedroom, quite empty, was available; in some cases this condition arose from the fact that the second bedroom was in need of repairs; in others, it resulted from sheer indifference and ignorance, a desire to save labour or expense, or a feeling that it is warmer to be huddled together. In 69 instances the tenants were urged to get additional beds, chiefly because either parents and their children, or young people of opposite sexes, were sleeping in the same bed. As many as 154 families were urged to get a larger house, but this, unfortunately, is a very difficult matter for poor people with large families and small means. At 36 houses it was found that lodgers were causing overcrowding and they were ordered to leave.

REPORT,
1900.

—
Extract from
Birmingham
Report.

Health
Visitors and
sleeping
accommoda-
tion.

REPORT,
1900.

—
Extract from
Birmingham
Report.

Health
Visitors and
accumulations
of filth.

Health
Visitors and
neglected
children.

Health
Visitors and
sickness.

Health
Visitors'
handbills.

Health
Visitors and
sanitary
defects.

The Visitors also examine the bedding, and in 516 cases last year they had it cleansed. A number of mattresses were found to be so filthy and verminous that they were burnt.

At 257 houses accumulated stale food, vegetable refuse, filthy rags, and other offensive matters were burned.

An important part of the Health Visitors' work is the attention given to young children and to sick persons. At 564 houses the children were in a dirty, neglected condition, their hair being in some cases so full of lice that it had to be all cut off and the scalp poulticed for several days before the revolting, filthy and diseased mass could be removed.

In a large number of instances advice was given as to the most suitable food for infants.

At 5,308 of the houses visited there was sickness of some kind, and the Visitors gave advice as to the nursing of the sufferers. At 418 houses where the illness was of a serious nature no doctor was in attendance, and it was necessary to urge the inmates to obtain the services of one without delay. In a certain number of cases where there was a medical attendant, his orders were not being acted upon, and the Visitors pointed out the necessity of following his advice in every particular.

In the course of their work the Visitors have distributed a very large number of handbills relating to the management of the house and yard, the feeding of infants, and the precautions to be taken against measles, diarrhoea, typhoid fever, and consumption. At the same time they have explained verbally the chief points contained in the same.

From time to time they have reported cases to the Relieving Officer of the Parish, the Birmingham and District Nursing Society, the Police-Aided Association for Clothing Children, the National Society for the Prevention of Cruelty to Children, and other philanthropic bodies.

In visiting so large a number of houses, the Visitors have become aware of a great many sanitary defects which it is the duty of the landlord to remedy. Among these may be mentioned :—

Houses with dirty walls and ceilings	1,274
" " damp walls.....	352
" " broken walls and ceilings.....	553
" " defective roofs	699
" " " spouting.....	93
" " broken floor quarries.....	74
" " " boards	114
" " " windows and window sashes ...	82
" " " window cords.....	86
" " defective stairs	95
" " " pantries	16
" " accumulations of rubbish in cellar	45
Yards unpaved and filthy	34
Accumulations of rubbish in yards	54
Drains in yards obstructed.....	87
Water-closets stopped up	46
Water-closets and privies filthy and defective	108
Ashplaces defective	173
Washhouses defective.....	59

I think, after the foregoing description of the Health Visitor's work, it will be unnecessary for me to say that it cannot fail to have a direct and marked influence on the comfort and health of the poorer section of our population. Anyone acquainted with our courts and terraces will know that, bad as are the conditions necessarily existing there, owing to want of air space, deficiency of light, inadequate privy accommodation, and general dilapidations, these conditions are intensely aggravated by the carelessness of many of the tenants. This carelessness, with its attendant high mortality, the Health Visitors are doing much to remedy.

The greatest difficulty experienced by the Health Visitors arises from the intemperance of a considerable section of the persons visited. Most of the gross cases of neglect of home and children are associated with drunkenness on the part of either one or both parents. How far the drunkenness is induced in the first place by their miserable surroundings it is difficult to determine ; it is probably both a cause and an effect of them.

REPORT,
1900.

—
Extract from
Birmingham
Report.

—
Health
Visitors and
sanitary
defects.

Health
Visitors and
intemperance.

SALE OF FOOD AND DRUGS ACT, 1875.

Report of the Public Analyst appointed for the County Borough of Sunderland upon the articles analysed by him under the above Act.

1.—THE QUARTER ENDED 31ST MARCH, 1900.

Article submitted for Analysis	State whether the sample was submitted to the Analyst by an Officer acting under direction of a Local Authority, under Section 13 of Act, and if so, the name of such Authority.	Result of Analysis : Showing whether the sample was Genuine or Adulterated, and, if Adulterated, what were the nature and extent of the Adulteration.	Observations.
Milk	By an Officer acting under direction of the Town Council.	Of doubtful genuineness. Adulterated with 10·4 per cent. added water.	
Do.		Doubtful.	
Do.		Do.	
Do.		Genuine.	
Do.		Doubtful.	
Do.		Adulterated with 11·4 per cent. added water.	
Do.		Doubtful.	
Do. ..		Genuine.	
Do.		Do.	
Do.		Do.	
Do.		Doubtful.	
Do.		Genuine.	
Do.		Doubtful.	
Do.		Adulterated with 6·5 per cent. of added water.	
Do.		Doubtful.	
Do.		Adulterated with 26·5 per cent. of added water.	
Do.		Doubtful.	
Do.		Do.	
Do.		Do.	
Do.		Do.	
Do.	Do.		
Do.	Do.		
Do.	Do.		

1.—THE QUARTER ENDED 31ST MARCH, 1900.

(Continued.)

Article submitted for Analysis.	State whether the sample was submitted to the Analyst by an Officer acting under direction of a Local Authority, under Section 13 of Act, and if so, the name of such Authority.	Result of Analysis :— Showing whether the sample was Genuine or Adulterated, and, if Adulterated, what were the nature and extent of the Adulteration.	Observations.
Milk	By an Officer acting under direction of the Town Council	Genuine.	
Do.		Do.	
Do.		Do.	
Do.		Doubtful.	
Do.		Do.	
Do.		Do.	
Do.		Do.	
Do.		Genuine.	
Do.		Do.	
Do.		Doubtful.	
Do.		Do.	
Do.		Do.	
Do. ..		Genuine.	
Do. ..		Doubtful.	
Do.		Do.	
Do.		Genuine.	
Do.		Do.	
Do.		Do.	
Do.		Doubtful.	
Do.		Genuine.	
Do.	Do.		
Do.	Do.		
Do.	Doubtful.		
Do.	Genuine.		
Do.	Doubtful.		
Do.	Do.		
Do.	By a wholesale dealer.	Do.	

Genuine Samples..... 17
Doubtful do. 30
Adulterated do. 4

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51
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2.—QUARTER ENDED 30TH JUNE, 1900.

Article submitted for Analysis.	State whether the sample was submitted to the Analyst by an Officer acting under direction of a Local Authority, under Section 13 of Act, and if so, the name of such Authority.	Result of Analysis : Showing whether the sample was Genuine or Adulterated, and, if Adulterated, what were the nature and extent of the Adulteration.	Observations.
Coffee	By an Officer acting under direction of the Town Council.	Adulterated with 25 per cent. of chicory.	Poor in fat.
Butter.....		Genuine.	
Lard		Do.	
Baking Powder...		Do.	
Cheese.....		Do.	
Butter.....		Do.	
Lard		Do.	
Milk		Of doubtful genuineness.	
Do.		Do.	
Do.		Do.	
Do.		Do.	
Do.		Do.	
Do.		Adulterated with 10·47 per cent. added water.	
Do.		Genuine.	
Do.		Do.	
Do.		Do.	
Cheese.....		Do.	
Do.		Do.	
Do.		Do.	
Butter.....		Do.	
Do.		Do.	
Do.		Do.	
Coffee		Do.	
Pepper		Do.	
Baking Powder...		Do.	
Cheese.....		Do.	
Butter.....		Do.	
Do.		Do.	
Margarine ...	Do.		
Do.	Do.		

Genuine	Samples.....	23
Doubtful	do.	5
Adulterated	do.	2

—
30
—

3.—QUARTER ENDED 30TH SEPTEMBER, 1900.

Articles submitted for Analysis.	State whether the sample was submitted to the Analyst by an Officer acting under direction of a Local Authority, under Section 13 of Act, and if so, the name of such Authority.	Result of Analysis : Showing whether the sample was Genuine or Adulterated, and, if Adulterated, what were the nature and extent of the Adulteration.	Observations.
Milk (eight samples)	By an Officer acting under direction of the Town Council.	Genuine.	They were all poor in fat.
Milk (ten samples)		All of doubtful genuineness	
Milk		Adulterated :	
Do.		Fat abstracted 33·0 per cent	
Do.		Added water 4·7 do.	
Do.		Adulterated :	
Do.		Fat abstracted 13·0 do.	
Do. (thirteen samples)		Added water 2·4 do.	
Do. (seven samples)		Adulterated :	
Do.		Fat abstracted 16·0 do.	
Do.	All genuine	They were all poor in fat.	
Do.	All of doubtful genuineness		
Do.	Adulterated :		
Do.	Fat abstracted		
Do.	20·0 per cent.		
Do.	Do. do. 10·6 do.		
Do.	Do. do. 13·3 do.		

Genuine	Samples	.....	21
Doubtful	do.	.....	17
Adulterated	do.	.....	6

—

44

4.—QUARTER ENDED 31st DECEMBER, 1900.

Article submitted for Analysis.	State whether the sample was submitted to the Analyst by an Officer acting under direction of a Local Authority, under Section 13 of Act, and if so, the name of such Authority.	Result of Analysis : Showing whether the sample was Genuine or Adulterated, and, if Adulterated, what were the nature and extent of the Adulteration.	Observations.	
Camphorated Oil	By an Officer acting under direction of the Town Council.	Genuine.		
Do.		Do.		
Lime Water		Do.		
Do.		Do.		
Cream of Tartar...		Do.		
Do.		Do.		
Precipitated Sulphur		Do.		
Do.		Do.		
Glycerine ...		Do.		
Tincture of Ginger...		Do.		
Paregoric ...		Do.		
Cream of Tartar..		Do.		
Precipitated Sulphur		Do.		
Camphorated Oil		Do.		
Do.		Do.		
Milk		Do.		Of abnormal quality.
Butter		Do.		
Margarine ...		Do.		

Genuine Samples.....18

SUMMARY FOR THE YEAR

Genuine Samples Examined.....79
 Doubtful do. do.52
 Adulterated do. do.12

143

JOHN PATTINSON,

Public Analyst.

Annual Report of the Chief Sanitary Inspector.

HEALTH OFFICE,

TOWN HALL, SUNDERLAND,

JULY, 1901.

TO THE CHAIRMAN AND MEMBERS OF THE
HEALTH COMMITTEE.

GENTLEMEN,

I have the honour to submit to you my 6th Annual Report of the work done by your Inspectors during the year ending December 31st, 1900.

It will be seen that 53,484 inspections and 120 special reports have been made, 2,206 tests have been applied to drains, 11,556 notices served, and 644 letters and 272 circulars have been written and sent out.

28 houses have been dealt with under the Housing of the Working Classes Act, 1890, details of which are given in the Medical Officer's Report.

The following amongst other work has been done, viz. :—

12 houses have been provided with sanitary conveniences where none previously existed.

120 privy middens have been abolished and 147 water-closets substituted.

367 ashpits have been repaired and 111 ashpans have been provided.

227 water-closets, which were structurally defective, have been replaced, 88 have been provided with an efficient supply of water, and 100 soil pipe ventilators have been repaired, or new ones fixed.

718 drains, which were untrapped or otherwise defective, have been repaired or relaid.

116 yards have been cemented and 147 repaired.

Table showing the INSPECTIONS made during 1900.

Slaughter Houses	304
Butchers' Shops	2,842
Fish or Fruit Shops	595
Milk Shops	637
Cow Byres	140
Bake Houses	60
Common Lodging Houses	761
Offensive Trades	85
Factories and Workshops	568
Inspections to ascertain if works ordered were in progress	7,010
Inspections for the Supervision of Work	3,083
Dwelling Houses	33,887
Inspections of Dwelling Houses after Infectious Disease	1,196
Sundry Inspections	2,316
Total Inspections	53,484

SUMMARY OF NOTICES for the Abatement of Nuisances
served during 1900.

Nature of Notice.	Preliminary.		Statutory.		Totals
	Owner.	Occupier	Owner.	Occupier	
To Cleanse Premises after Infectious Disease .....	...	882	...	...	882
To Cleanse Dwelling Houses, Yards, &c....	8	212	...	28	248
To Abate Nuisances respecting Foul or Defective Drains	398	59	150	11	618
To Abate Nuisances respecting Ashpits and Privies	379	40	143	8	570
To Abate Nuisances respecting Water-closets.....	214	181	102	6	503
Insufficient W.C. Accommodation or Water Supply to W.C.....	74	...	14	1	89
To Repair Yards.....	240	...	129	...	369
To Repair Dilapidations in Houses	687	...	298	...	985
To Abate Overcrowding	12	3	7	1	23
To Repair Spouts and Downcomers	809	...	322	...	1131
To Repair Fittings to Ashpits, Pan-closets, &c.	117	...	13	...	130
To Cleanse and Limewash Bake Houses, Workshops, and Factories	5	...	...	...	5
To Provide Water Supply to Dwelling Houses	158	...	24	...	182
To Abate other Nuisances	153	36	71	13	273
Totals.....	3254	1413	1273	68	6008

DRAINS TESTED.

235 applications were received at the office for the testing of drains. Of this number no fewer than 106 drains were found to be defective. In addition to this, the Inspectors, while on their rounds, had reason to suspect that nuisances existed with regard to 102 drains. Of these 65 proved to be defective. There were also 147 drains tested in houses where cases of Enteric Fever and Diphtheria had been notified, and 29 were found to be defective.

The total lengths of Drains tested were as follows:—19,261 feet of 4 in. drains, 2,764 feet of 6 in. drains, and 543 feet of 9 in. drains.

The following Tables show the number of Drains Tested, Nature of Tests, &c. :—

OLD DRAINS TESTED FOR REASONS GIVEN BELOW :—

	Nature of Test.			Result.		Total.
	Water	Chemical.	Smoke	Defective.	Good.	
Drains Tested on Complaint	122	31	82	106	129	235
Drains Tested on Suspicion of Nuisance	21	59	22	65	37	102
Drains Tested after Infectious Disease	..	145	2	29	118	147
Totals	143	235	106	200	284	484
The following is a Table of Drains Tested after Alterations or Repairs :—						
Drains Tested to ascertain if work in progress was satisfactory.....	932	79	64	172	903	1075
Drains Retested	385	16	15	65	351	416
Totals	1317	95	79	237	1254	1491

In addition to these, 40 tests were made at the Borough Sanatorium, and 80 at the Borough Lunatic Asylum at Ryhope.

Table showing the Number of Notices served on *Occupiers*.

This Table gives the number of *Written Notices* only. Besides these many *Verbal Warnings* were given, but they are not included in any of our *Statements of Notices served*.

Districts.	Privies Foul.	Water in Ashpits	W.C.'s to Cleanse.	Drains Choked.	Houses in a dirty condition.	Dirty Yards.	Overcrowding in houses.	Fowls and Animals so kept as to be a Nuisance.	Accumulations injurious to Health.	To Disinfect after Infectious Diseases.	To Linewash.	Totals.
1	16	..	49	12	44	10	..	4	4	199	1450	1788
2	6	..	29	15	33	25	..	15	11	171	1267	1572
3	4	..	12	5	12	7	..	4	2	83	352	481
4	1	4	41	2	10	29	1	5	6	132	721	952
5	5	2	40	25	7	..	2	..	..	180	1442	1713
6	7	3	16	11	20	33	1	9	..	117	316	523
Totals	39	9	187	70	126	104	4	37	23	882	5548	7029

5,548 notices were served for the whitewashing of tenemented houses. In order to encourage the tenants to comply with notices, the Corporation supplies lime at the rate of one penny per pail. Brushes are lent to persons who cannot afford to buy them, on application to the District Inspector. About nine dozen brushes were used for this purpose during the year.

DISINFECTING WORK during the year 1900.

Return of Houses, Beds, Bedding, Wearing Apparel, &c., Disinfected after cases of Infectious Diseases.

Articles.	Disinfected.	Burned.	Houses.	No.
Beds.....	816	19	Houses Fumigated and Disinfected.....	1239
Mattresses.....	77	15		
Blankets..	536	4		
Pillows.....	1533	4		
Quilts.....	479	1		
Bolsters.....	593	...		
Sheets.....	595	...		
Carpets.....	15	...		
Shawls.....	75	1		
Sundries.....	858	3		
Totals ...	5577	47	Total	1239

19 books belonging to the different libraries in the town were disinfected after having been in infected houses.

TABLE

Showing the cases in which it was found necessary to adopt **MAGISTERIAL PROCEEDINGS.**

Particulars of Complaints.	No.	How disposed of.	Penalties imposed.
			£ s. d.
Houses in a dilapidated state	10	8 withdrawn, 2 abatement orders.	1 6 0
Privies and Ash-pits out of repair..	7	3 abatement orders, 4 withdrawn.	1 3 0
Roof and spouts out of repair	17	15 withdrawn, 2 abatement orders.	3 6 0
Defective Waterclosets	3	3 withdrawn	0 12 0
Drains out of repair.	6	2 abatement orders, 4 withdrawn.	1 14 0
Yards out of repair.	3	1 abatement order, 2 withdrawn.	0 17 0
Accumulation of Water in Cellar...	2	2 withdrawn.	0 8 0
Stagnant Water on Land	1	1 abatement order.	0 9 0
Street Pavement out of repair.....	3	3 withdrawn.	0 12 0
Urinal in a foul state.....	1	1 withdrawn.	0 4 0
Water in Ashpits.	39	4 fined 3/6, 34 fined 2/6, 1 dismissed.	4 19 0
Foul and Dirty Waterclosets	12	11 fined 1/-, 1 withdrawn.	0 11 0
Dirty Privies.	49	17 fined 2/6, 21 fined 1/-, 11 withdrawn.	3 3 6
Dirty Rooms	6	2 dismissed, 4 abatement orders.	1 16 0
Not complying with Notices under Housing of the Working Classes Act	9	1 withdrawn, 8 closing orders.	3 12 0
Breach of Common Lodging House Regulations	1	1 fined 40/- and costs.	2 4 0
Adulterated Milk	11	1 fined £20 and costs, 1 fined £10 and costs, 4 fined £5 and costs, 1 fined £3 and costs, 1 fined £2 10/- and costs, 2 fined £2 and costs, 1 fined 30/- and costs.	61 3 6
Animals so kept as to be a nuisance.....	1	1 abatement order	9 6
Total.....	181		88 9 6

The magisterial proceedings against tenants were as follows :—

(a) Dirty and foul w.c.'s, 12 cases ; in 11 cases the tenants were fined 1/-, and 1 case was dismissed.

(b) Dirty privies, 49 cases ; in 17 cases the tenants were fined 2/6 each, in 21 cases the tenants were fined 1/- each, and 11 cases were withdrawn.

(c) Dirty rooms, 6 cases ; in 4 cases abatement orders were made, and 2 cases were dismissed.

(d) Water in ashpits, 39 cases ; 4 tenants were fined 3/6 each, 34 were fined 2/6 each, and 1 case was dismissed.

In the year 1900, 330 cases of neglecting to abate nuisances were reported to the Health Committee, and proceedings were authorized. Except for those cases given in the preceding table, the nuisances were abated on sending a circular intimating that proceedings were about to be taken.

Notices were sent to the Police, from time to time, of nuisances arising from offensive liquids leaking from ashpits on to the streets, and from filth being thrown on the street pavements and catchpits. Summonses were taken out, and the following cases were dealt with :—

For allowing offensive matters to flow from ashpits, 5 persons were fined 5s. each, 7 were fined 2s. 6d. each, and 6 were fined 2s. each.

For throwing filth on to street pavements and street catchpits, one person was fined 5s., 8 persons were fined 2s. 6d. each, and 6 were fined 2s. each.

Complaints received at the Health Office, and attended to during the year 1900.

NATURE OF COMPLAINTS.	Number of Districts.						Totals.
	1	2	3	4	5	6	
Smoke Nuisances.....	1	2	...	...	1	1	5
Overcrowding	2	7	...	1	4	3	17
Damp and Dilapidated Houses	4	3	5	3	3	2	20
Defective Roofs and Spouts	10	25	10	2	11	3	61
Dirty Yards, Rooms, &c.....	5	12	...	...	...	4	21
Defective Yards	3	1	...	...	...	2	6
Foul and Defective Water-Closets	11	27	2	2	4	2	48
Defective Privy Middens	12	11	4	1	3	3	34
Defective Drains	13	43	46	13	20	10	145*
Animals kept in such a state as to be a Nuisance	2	2	2	...	1	1	8
Offensive Smells from Sewer Ventilators and Street Grates ¹	1	5	6	3	...	...	15
Insufficient Water-Closet Accommodation for Factories and Workshops	1	...	...	...	...	...	1
Insufficient Ventilation for Factories and Workshops .....	...	1	...	...	...	...	1
Water in Ashpits .....	...	3	3	...	1	...	7
Accumulation of Offensive Refuse	2	12	5	1	1	1	22
Houses without a proper supply of Water	1	...	...	...	1	...	2
Other Nuisances ..	14	36	12	2	7	9	80
TOTALS	82	190	95	28	57	41	493

* This includes 40 requests to have drains tested, not actual complaints.

DAIRIES AND MILK SHOPS.

District.	No. on Register 1900.	Notices Served.	CASES OF SICKNESS.				No. Removed to Hospital.	Treated at Home.
			Small-pox.	Scarlet Fever.	Typhoid Fever.	Diphtheria.		
No. 1 ...	58	...	...	...	...	...	...
" 2 ...	103	...	...	...	...	...	...
" 3 ...	42	...	...	...	...	...	...
" 4 ...	69	...	...	2	...	...	2
" 5 ...	96	...	...	1	...	...	1
" 6 ...	71	...	...	...	...	...	...
Totals ...	439	...	...	3	...	...	3

These Dairies and Milk Shops have been inspected systematically, 637 visits having been made.

NUMBER OF COW SHEDS IN THE BOROUGH.

DISTRICT.	No. of Byres.	Accommodation.
No. 1 District	1	2
No. 2 "	4	29
No. 3 "	23	173
No. 4 "	4	24
No. 5 "	5	60
No. 6 "	10	56
Totals ...	47	344

These Byres have been regularly inspected, 140 visits having been paid.

BAKEHOUSES.

There are 235 Bakehouses in the Borough, but, with the exception of three, they are on a very small scale. Several of these bakehouses are situated in basements, and are known as cellar bakehouses. These are chiefly used in connection with confectioners' shops, and are, generally, in a very clean condition. The large machine bakehouses are well managed, clean, and in suitable buildings. There have been 295 visits paid to bakehouses during the year. It was not found necessary to serve any notices for bakehouses.

REGISTERED COMMON LODGING HOUSES.

There were 761 Inspections of Common Lodging Houses made during the year.

THE FOLLOWING NOTICES WERE SERVED:—

To repair roofs and spouts.....	6
„ floors	3
„ ceilings	3

POLICE COURT PROCEEDINGS:—

One case—dirty state of the rooms, &c.

The keeper of the house was fined 40/- and costs.

REGISTERED COMMON LODGING HOUSES.

LOCALITY OF HOUSE.	No. of Rooms.	No. of Lodgers.	No. of Single Beds.	No. of Double Beds.	No. of Beds under the Registered Accommodation.
5, Cumberland Street.....	12	43	34	7	2
3 and 4, Charles Street	11	33	32	—	—
7, Sunderland Street	4	18	14	3	3
3,3, Number's Garth	4	14	5	4	1
11, Number's Garth	4	16	14	1	1
42, Covent Garden Street	5	15	5	5	—
2 Spring Garden Lane	8	30	26	2	—
44, Spring Garden Lane	6	19	13	3	—
41, 42, and 43, Spring Garden Lane	8	41	19	10	2
38, Spring Garden Lane	7	21	3	9	—
2, Lombard Street	4	21	3	5	1
35, Lombard Street	8	17	8	4	1
5 and 6, Queen Street East	8	38	11	18	1
2, Arrass Lane	8	43	19	12	—
10, Church Street	7	29	7	12	7
3, Mill Street	8	22	2	10	2
13, Havelock Street	6	20	6	7	—
39, Outram Street	5	17	1	8	—
2, Queen Street	7	39	13	13	—
6, Maud's Lane	8	34	10	12	—
1, Horn's Lane	8	36	36	—	—
4 and 5, Bedford Street.....	11	68	57	4	3
3, George street	5	15	15	—	—
Totals	163	641	340	160	27

APPLICATION FOR NEW LICENSE:—

3, George Street

Granted.

APPLICATION FOR TRANSFER OF LICENSE:—

10, Church Street.....

Refused.

SLAUGHTER HOUSES.

In the Borough there are only 12 slaughter houses used exclusively for this purpose, but nearly all the butchers' shops are used for slaughtering.

During the year 304 inspections were made, and, with few exceptions, the slaughter houses were found to be in a fairly clean condition.

UN SOUND MEAT.

During the year 1900 the Meat Inspector made 14 seizures of Unsound Beef, the amount seized being 6,734 lbs. 11 of the seizures were carcasses of animals affected by Tuberculosis. In addition to this, the offal of 9 animals was condemned for the same reason.

NATURE OF FOOD SEIZED.	QUANTITY.
MEAT.	
Beef	6,734 lbs.
Ox Tails	62 lbs.
Pork.....	204 lbs.
Rabbits	54 in number.
FISH.	
Shrimps	168 lbs.
FRUIT.	
Cherries	80 lbs.
Strawberries	4 pints.
Gooseberries	2 cwts. 102 lbs.
Black Currants	2 lbs.
Pears	60 stones.
Grapes.....	2 lbs.
Tinned Tomatoes	90 lbs.

Milk.....	16 gals.
Ice Cream	15 gals.

In no case was it found necessary to recommend proceedings where food was seized. The butchers and other tradespeople, when in doubt, have sent to the Health Office to have their goods examined ; and in each case they have consented to the destruction of the unsound food.

OFFENSIVE TRADES.

The Offensive Trades carried on in the Town are as follows :—

Slaughter Houses	12
Gut Scraping Houses.....	2
Tallow Melting Works	1
Marine Store Dealers.....	14
Fish Curing Houses	2
Chemical Works.....	2
Tripe Preparers	8
Skin Warehouses	3
Oil and Grease Works	1
Paint Works	2
	—
Total.....	47
	—

There are 47 of these places in the Borough, all of which have been visited regularly during the year. These establishments are generally conducted satisfactorily, and few complaints are received about them. The Legislature provides for the registration of offensive trades, and model bye-laws have been prepared, but neither the registration nor the bye-laws have been put in force in Sunderland.

FACTORIES AND WORKSHOPS.

568 visits have been paid to Factories and Workshops, and the places have generally been found to be in a fair condition.

Five notices were served to cleanse Work rooms.

Two notices were served to provide proper w.c. accommodation.

Table showing the number of REGISTERED FACTORIES
in the Borough :—

FACTORIES.	No. of Factories.	FACTORIES.	No. of Factories.
Bookbinder	1	Iron Founders	9
Bottle Makers	3	Laundries	4
Brassfounders	8	Miller	1
Brewer	1	Mineral Water Manu- facturers	6
Brick Maker	1	Potter	1
Brush Makers	3	Printers	6
Cement Makers	5	Rivet Maker	1
Chain Maker	1	Rope Makers	2
Contractors	3	Ship Builders	6
Electrical Engineer	1	Timber Sawyers	3
Engineers	9	Tobacco Manufacturer	1
File Maker	1	Whiting Manufacturer	1
Gas Maker	1		

Total number of Factories :—79.

Table showing the number of REGISTERED WORKSHOPS
in the Borough :—

WORKSHOPS.	No. of Workshops	WORKSHOPS.	No. of Workshops
Ale Bottlers	2	Oil Refiner	1
Anchor Smiths	2	Oil-Skin Maker	1
Bakers	14	Painters	4
Bicycle Makers	3	Paper Bag Makers	2
Blacksmiths	12	Pattern Maker	1
Block and Mast Makers	2	Picture Frame Maker	1
Boat Builders	5	Pipe Maker	1
Boot and Shoe Makers	8	Plumbers	4
Cabinet Makers	2	Sail Makers	3
Cartwrights	2	Saw Maker	1
Coach Builders	3	Sculptors	2
Compass Maker	1	Slater	1
Confectioners	2	Slipper Makers	2
Cooper	1	Stocking Knitters	2
Coppersmith	1	Tailors	37
Dyer	1	Tinsmiths	7
Fish Curers	2	Upholsterer	1
Grease and Varnish Maker	1	Varnish Maker	1
Harness Maker	1	Watchmaker	1
Joiners	32	Weighing Machine Repairer	1
Milliners and Dressmakers	52	Whitesmith	1
Model Maker	1	Window Blind Maker	1

Total number of Workshops :—221.

ANALYSIS OF FOOD AND DRUGS.

142 samples of Food have been submitted for analysis during the year. The following Table shows the number of samples of each Article taken, extent of adulteration, and magisterial proceedings:—

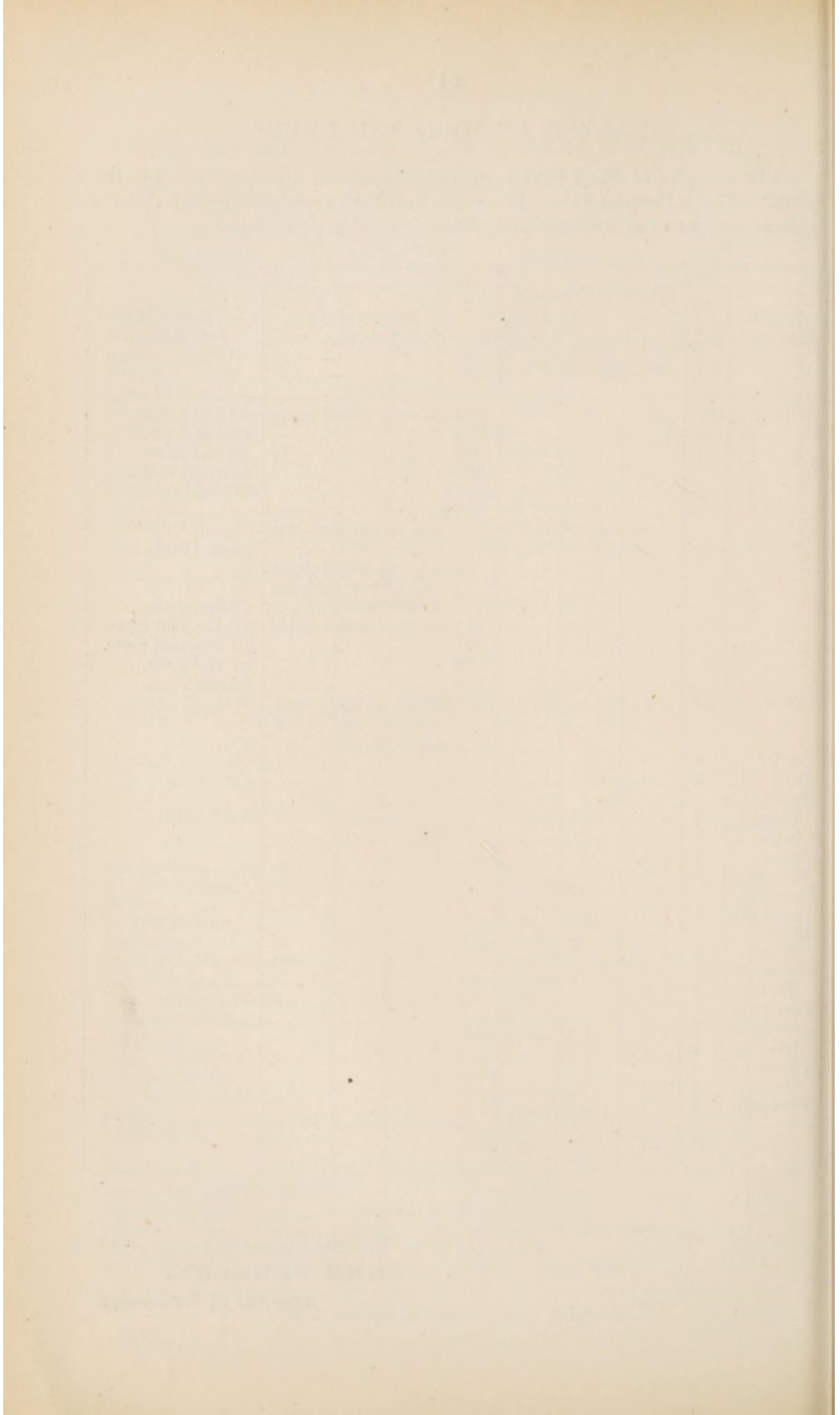
Articles Analysed.	No. Analysed.	Result of Analysis.			Extent of Adulteration.	Result of Proceedings.
		Genuine.	Adulterated.	Doubtful.		
Milk	104	41	11	52	10·4 per cent. added water	£5 and costs.
					11·4 " "	£5 and costs.
					6·5 " "	£5 and costs.
					26·5 " "	£20 and costs.
					10·74 " "	£10 and costs.
					4·74 " "	
					and 33 per cent. fat abstracted	£5 and costs.
					2·4 per cent. added water and 13 per cent. fat abstracted	£2 and costs.
					16 per cent. fat abstracted	£2 10s. and costs.
					20 " "	£1 10s. and costs.
					10·6 " "	£2 and costs.
					13·3 " "	£3 and costs.
Coffee.....	2	1	1	...	Contained 25 per cent. chicory, sold as a mixture .....	...
Butter ...	8	8	...	...	...	...
Lard	2	2	...	...	...	...
Baking Powder..	2	2	...	...	...	...
Cheese ...	5	5	...	...	...	...
Pepper ...	1	1	...	...	...	...
Margarine	3	3	...	...	...	...
Camphorated Oil..	4	4	...	...	...	...
Lime Water...	2	2	...	...	...	...
Cream of Tartar...	3	3	...	...	...	...
Precipitated Sulphur	3	3	...	...	...	...
Glycerine..	1	1	...	...	...	...
Tincture of Ginger...	1	1	...	...	...	...
Paregoric	1	1	...	...	...	...
	142	78	12	52	...	...

I am, Gentlemen,

Your obedient Servant,

JOHN PENNOCK,

Inspector of Nuisances.



APPENDIX.

VITAL AND SANITARY STATISTICS,

INCLUDING THE

New Tables required by the Local Government
Board.

❧ 1900. ❧

TOGETHER WITH

ABSTRACTS FOR 19 YEARS, 1881-1899.

METEOROLOGICAL OBSERVATIONS.

TABLE I.

Showing the Population, Inhabited Houses, Marriages, Births, and Deaths for the year 1900, and 19 years preceding.

GROSS NUMBERS.

The Year.	Estimated Population.	No. of Inhabited Houses.	Marriages.	Registered Births.	Registered Deaths.	Deaths in Public Institutions.
1900	147,398	22,563	1,623	5,256	3,147	405
1881	116,753	15,956	1,370	4,587	2,436	218
1882	118,132	16,270	1,586	4,889	3,146	202
1883	119,527	16,728	1,593	5,054	2,961	206
1884‡	120,940	17,208	1,286	5,338	2,888	247
1885	122,369	17,444	1,207	4,725	2,977	236
1886	123,814	17,189	1,161	4,621	2,479	241
1887	125,276	17,810	1,341	4,474	2,549	229
1888	126,757	17,790	1,283	4,559	2,375	214
1889	128,254	18,607	1,520	4,818	3,063	234
1890‡	129,769	18,590	1,525	4,932	3,140	292
1891	131,302	18,590	1,363	4,945	3,273	285
1892	132,839	19,098	1,272	4,909	2,774	257
1893	134,515	19,476	1,259	4,770	3,023	310
1894	136,101	19,854	1,356	4,760	2,815	272
1895	137,705	19,953	1,368	4,819	2,990	356
1896‡	140,386	20,684	1,519	4,873	2,784	322
1897†	142,107	20,982	1,590	4,905	2,777	313
1898	143,849	21,257	1,754	5,077	3,236	377
1899	145,613	21,789	1,630	5,184	3,113	462
Average of 19 Years, 1881-99.	130,316	18,693	1,420	4,855	2,884	277

NOTES.

- 1.—Population of Census, 1891 = 131,686.
- 2.—Average Number of Persons in each House at Census, 1891 = 7.04.
- 3.—Area of Borough in Acres—3,396, exclusive of tidal water and foreshore, but including the docks.
- 4.—Average Number of Persons living on each acre at Census, 1891 = 38.77.
- 5.—The Marriages refer to the Registration District of Sunderland, which, in addition to the Municipal area, includes the townships of Ford, Tunstall, Ryhope, Fulwell, Southwick, and Hylton.

* For Statistical purposes the Registrar General estimates the Population to the middle of the year on the basis of rate of increase ruling between the two preceding census periods. The estimate population may be checked to a certain extent by the known number of inhabited houses, and by the average number of inmates per house, as ascertained at the preceding census.

‡ In these years there were 53 weeks, therefore, in calculating annual rates from the figures given for the population, care should be taken to add a fifty-second part to them to get the true ratios; hence the respective populations for these years would be 123,265, 132,264, and 143,086.

† In the year 1897 the deaths occurring in the Borough Asylum are included amongst the total deaths for the first time.

TABLE II.

Showing the ANNUAL BIRTH and DEATH-RATES, DEATH-RATES OF CHILDREN, proportion of DEATHS IN PUBLIC INSTITUTIONS in 1000 Deaths for the year 1900 and 13 years preceding.

In Year. 1	Birth Rates per 1000 of the Population. 2	Death Rates per 1000 of the Population. 3	Deaths of Children under 1 Year per 1000 of Registered Births. 4	Deaths of Children under 1 Year per 1000 of Total Deaths. 5	Deaths of Children under 5 Years per 1000 of Total Deaths. 6	Deaths in Public Institutions per 1000 of Total Deaths. 7
1900	35.66	21.35	169	282	437	128
1887	35.60	20.34	152	267	458	89
1888	35.95	18.73	135	260	399	90
1889	37.56	23.88	182	286	473	76
1890†	37.29	23.74	175	275	420	92
1891	37.65	24.93	178	269	449	95
1892	36.95	20.88	159	281	469	92
1893	35.46	22.47	189	299	437	102
1894	34.97	20.68	168	285	469	96
1895	32.08	21.71	191	312	452	119
1896†	34.04	19.45	161	282	463	115
1897	34.52	19.54	168	296	442	113
1898	35.29	22.50	202	317	490	116
1899	35.60	21.38	175	293	438	148
Average of 13 Years, 1887-1899	35.61	21.55	172	286	451	103

† There were 53 weeks in these years, and the rates have therefore been corrected for the extra week

TABLE III.

SHOWING DEATHS FROM ALL CAUSES DURING THE YEAR 1900.

CAUSES OF DEATH.	0 to 1	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 to 75	75 to 85	85 to 95	95 and upwards	Totals
I.—Specific, Febrile, &c.	159	153	35	26	12	21	14	7	13	11	.....	.....	451
II.—Parasitic Diseases . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
III.—Dietic Diseases . . . . .	.....	.....	.....	1	2	7	2	1	.....	.....	.....	.....	13
IV.—Constitutional Diseases	19	62	34	52	67	62	75	58	29	6	.....	.....	464
V.—Developmental Diseases	115	.....	.....	.....	.....	.....	.....	4	45	88	29	2	283
VI.—Local Diseases	380	250	66	48	57	111	156	234	206	94	11	.....	1613
VII.—Deaths from Violence.. . . .	24	7	5	8	11	9	15	17	6	.....	1	.....	103
VIII.—Deaths from Ill-defined Causes	192	16	2	3	.....	.....	4	.....	1	1	1	.....	220
TOTALS	889	488	142	138	149	210	266	321	300	200	42	2	3147
I.—Specific or Febrile Causes.													
<i>1.—Miasmatic Diseases.</i>													
Smallpox { Vaccinated . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
{ Unvaccinated . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
{ Unknown . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Measles	22	61	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	87
Scarlet Fever (Scarlatina)	4	21	11	2	1	.....	.....	.....	.....	.....	.....	.....	39
Diphtheria	4	12	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	22
Whooping Cough	9	21	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	30
Typhus Fever . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Enteric or Typhoid Fever	1	2	8	23	8	10	4	.....	.....	.....	.....	.....	56
Simple Continued and Ill-defined Fever . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Other Miasmatic Diseases	2	2	3	.....	.....	8	6	4	9	7	.....	.....	41
<i>2.—Diarrhœal Diseases.</i>													
Simple Cholera . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Diarrhœa, Dysentery	100	33	2	1	1	2	3	3	2	3	.....	.....	150
<i>3.—Malarial Diseases.</i>													
Remittent Fever . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ague . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
<i>4.—Zoogenous Diseases.</i>													
Cowpox, Effects of Vaccination . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hydrophobia . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Glanders . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Splenic Fever . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
<i>5.—Venereal Diseases.</i>													
Syphilis	13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	13
Gonorrhœa, Stricture of Urethra . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
<i>6.—Septic Diseases.</i>													
Erysipelas	4	1	.....	.....	.....	1	1	.....	1	1	.....	.....	9
Pyæmia, Septicæmia . . . . .	.....	.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	2
Puerperal Fever . . . . .	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	2
II.—Parasitic Diseases.													
Thrush . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hydatids . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Other Animal Parasitical Diseases . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
III.—Dietic Diseases.													
Starvation . . . . .	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Scurvy . . . . .	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Chronic Alcoholism, Delirium Tremens . . . . .	.....	.....	.....	1	2	6	2	1	.....	.....	.....	.....	12

TABLE III.—CONTINUED.

CAUSES OF DEATH.	0 to 1	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 to 75	75 to 85	85 to 95	95 and upwards	Totals.
IV.—Constitutional Diseases.													
Rheumatic Fever and Rheumatism of the Heart			2				3	1					6
Rheumatism				2	1	3							6
Gout													
Rickets		1											1
Cancer, Malignant Disease				1	3	9	27	40	21	6			107
Tabes Mesenterica	8	19		1									28
Tubercular Meningitis, Hydrocephalus	3	15	2	2	1								23
Phthisis	1	10	19	37	52	46	39	12	6				222
Other Tubercular and Scrofulous Diseases	4	17	8	7	8	2	4	1					51
Purpura, Hæmorrhagic Diathesis			2	1									3
Anæmia, Chlorosis, Leucocythæmia	2		1	1	1	1	2	2					10
Glycosuria, Diabetes Mellitus					1	1			1				3
Other Constitutional Diseases	1							2	1				4
V.—Developmental Diseases.													
Premature Birth	97												97
Atelectasis	13												13
Congenital Malformations	5												5
Old Age								4	45	88	29	2	168
VI.—Local Diseases.													
<i>1.—Diseases of Nervous System.</i>													
Inflammation of Brain or Membranes	28	36	8	7	1	1		2					83
Apoplexy					2	8	16	37	34	18	1		116
Softening of Brain						1		3	1	1			6
Hemiplegia			1				2	3	6				12
Brain Paralysis													
Insanity, General Paralysis of the Insane				1	2	1							4
Epilepsy		2	1	1	2								6
Convulsions	71	9	1										81
Laryngismus Stridulus													
Paralysis Agitans													
Paraplegia						1		3	2	1			7
Diseases of Spinal Cord		2					1	2	1				6
Other Diseases of Nervous System	2	1	1	1	5	11	12	13	12	3	1		62
<i>2.—Diseases of Organs of Special Sense.</i>													
Ear, Diseases of		2	1										3
Eyes,		1	1										2
Nose,													
<i>3.—Diseases of Circulatory System.</i>													
Endocarditis							1	3					4
Valvular Diseases of Heart			3	3	4	5	6	10	6	1	1		39
Pericarditis			1						1				2
Other Diseases of Heart	6		7	6	13	23	38	37	45	11	3		189
Aneurism						2	1		2				5
Embolism, Thrombosis									1				1
Other Diseases of Blood Vessels	1												1
<i>4.—Diseases of Respiratory System.</i>													
Croup	2	6											8
Laryngitis	1	4	2			1				1			9
Bronchitis	136	64	5	2	1	11	28	54	59	39	2		401
Pneumonia	28	27	10	11	6	17	16	22	7	7	3		154
Broncho-Pneumonia	36	48	5		1	1	2	1	3	1			93
Pleuro-Pneumonia		7						1					8
Pleurisy						1	1	1	1	1			5
Emphysema								1					1
Asthma					1		1	3	1				6
Other Diseases of Respiratory System		1				2	2	2	3	1			11
<i>5.—Diseases of Digestive System</i>													
Dentition	5	11											16
Sore Throat, Quinsey													
Diseases of Stomach	11	4	2	1			2	3	2	2			27
Enteritis	36	10		1				2	2				51

TOGETHER WITH SUMMARY OF SIMILAR TABLES FOR THE PRECEDING SIXTEEN YEARS.

		NUMBER OF DEATHS.																
		1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900
I.—SPECIFIC, FEBRILE, OR ZYMOTIC DISEASES :—		275	589	113	294	119	288	205	307	396	225	301	252	304	206	277	213	275
1.—Miasmatic Diseases.....		150	82	194	111	59	170	132	128	81	258	114	258	118	182	262	175	150
2.—Diarrhoeal Diseases.....		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3.—Malarial Diseases.....		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4.—Zoonous Diseases.....		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5.—Venereal Diseases.....		11	17	20	15	5	19	12	..	20	21	14	10	17	11	9	14	13
6.—Septic Diseases.....		14	30	14	14	16	17	24	16	9	12	16	4	6	8	10	15	13
II.—PARASITIC DISEASES.....		1	1	1	..	2	..	..	..	..	..	..	..	..	1	1	1	..
III.—DIETIC DISEASES.....		6	4	6	6	5	7	20	13	7	9	5	6	3	10	7	7	13
IV.—CONSTITUTIONAL DISEASES.....		425	392	395	373	380	514	481	517	482	479	500	473	445	438	480	481	464
V.—DEVELOPMENTAL DISEASES.....		237	201	188	182	205	218	269	281	236	237	224	264	252	258	299	279	283
VI.—LOCAL DISEASES :—		439	403	347	310	320	346	293	330	276	265	236	348	352	310	363	333	383
1.—Diseases of Nervous System.....		2	1	2	3	..	2	2	2	3	1	5	1	..	6	7	3	5
2.—Diseases of Organs of Special Sense.....		164	170	160	183	211	214	238	228	192	227	233	222	195	236	251	248	241
3.—Diseases of Circulatory System.....		532	572	513	472	514	631	788	734	551	580	567	525	519	512	578	592	701
4.—Diseases of Respiratory System.....		159	131	133	155	120	142	151	149	135	179	180	203	179	209	276	312	175
5.—Diseases of Digestive System.....		2	..	1	..	..	..	..	1	..	..	..	1	..	..	1	2	1
6.—Diseases of Lymphatic System.....		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7.—Diseases of Gland-like Organs of uncertain use.....		1	..	1	2	2	..	1	..	..	..	..	2	2	3	1	1	..
8.—Diseases of Urinary System.....		47	41	47	54	60	34	50	68	54	55	50	38	61	62	64	78	67
9.—Diseases of Reproductive System :—																		
(a) Diseases of Organs of Generation.....		7	6	8	1	3	5	3	3	5	1	1	1	1	4	11	14	7
(b) Diseases of Parturition.....		11	11	18	20	14	9	29	15	13	18	21	6	14	7	13	5	16
10.—Diseases of Bones and Joints.....		15	11	7	9	11	9	10	11	12	16	10	18	9	8	19	10	12
11.—Diseases of Integumentary System.....		12	10	6	2	5	2	5	5	5	3	6	1	6	5	6	6	5
VII.—VIOLENCE :—		82	65	61	68	85	102	86	68	85	79	71	78	61	58	83	103	93
1.—Accident or Negligence.....		2	3	..	..	3	6	2	3	1	..	..	1	..	2	2	3	1
2.—Homicide.....		9	6	11	8	3	8	7	8	15	7	9	9	5	11	10	7	9
3.—Suicide.....		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
VIII.—ILL-DEFINED AND NOT SPECIFIED CAUSES.....		285	231	233	267	233	320	331	373	277	351	243	269	234	231	205	211	220
TOTALS.....		2888	2977	2479	2549	2375	3063	3140	3273	2774	3023	2815	2990	2784	2777	3236	3113	3147

TABLE IIIA.
 SHOWING THE DEATHS FROM ALL CAUSES REGISTERED IN
 EACH DISTRICT DURING THE YEAR 1900,
 AT THREE PERIODS OF LIFE.

CAUSES OF DEATH.	Sunderland.			Bishopwth North.			Bishopwth South.			Monkwear-mouth.			Totals
	Under 1.	1 to 5.	Over 5.	Under 1.	1 to 5.	Over 5.	Under 1.	1 to 5.	Over 5.	Under 1.	1 to 5.	Over 5.	
I.—Specific, Febrile, &c.	33	35	20	51	56	55	42	41	46	33	21	18	4
II.—Parasitic Diseases .. ..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
III.—Dietic Diseases. .. ..	.....	.....	4	.....	.....	5	.....	.....	3	.....	.....	1	.....
IV.—Constitutional Diseases	5	9	65	6	18	135	4	14	111	4	21	72	40
V.—Developmental Diseases	20	.....	30	36	.....	45	31	.....	57	28	.....	36	28
VI.—Local Diseases	76	47	166	102	86	314	116	62	313	86	55	190	160
VII.—Deaths from Violence	7	1	17	8	3	20	6	1	15	3	2	20	10
VIII.—Deaths from Ill-defined Causes	26	3	2	53	4	5	54	2	3	59	7	2	20
TOTALS	167	95	304	256	167	579	253	120	548	213	106	339	311
I.—Specific or Febrile Causes.													
<i>1.—Miasmatic Diseases.</i>													
Smallpox { Vaccinated .. ..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
{ Unvaccinated .. ..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
{ Unknown .. ..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Measles	7	18	1	4	17	1	6	19	1	5	7	1	8
Scarlet Fever (Scarlatina)	1	9	4	1	6	5	1	4	3	1	2	2	3
Diphtheria	1	1	1	1	5	3	2	3	2	.....	3	.....	2
Whooping Cough	1	3	.....	5	9	.....	2	7	.....	1	2	.....	3
Typhus Fever .. ..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Enteric or Typhoid Fever	1	.....	6	.....	2	24	.....	.....	16	.....	.....	7	5
Simple Continued and Ill-defined Fever .. ..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Other Miasmatic Diseases .. ..	.....	.....	5	1	.....	9	.....	1	18	1	1	5	4
<i>2.—Diarrhoeal Diseases.</i>													
Simple Cholera .. ..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Diarrhoea, Dysentery	14	4	2	37	17	7	28	6	6	21	6	2	15
<i>3.—Malarial Diseases.</i>													
Remittent Fever .. ..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ague .. ..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
<i>4.—Zoogenous Diseases.</i>													
Cowpox, Effects of Vaccination .. ..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hydrophobia .. ..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Glanders .. ..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Splenic Fever .. ..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
<i>5.—Venereal Diseases.</i>													
Syphilis	7	.....	.....	1	.....	.....	3	.....	.....	2	.....	.....	11
Gonorrhœa, Stricture of Urethra .. ..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
<i>6.—Septic Diseases.</i>													
Erysipelas	1	.....	.....	1	.....	4	.....	1	.....	2	.....	.....	.....
Pyæmia, Septicæmia .. ..	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1	.....
Puerperal Fever .. ..	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
II.—Parasitic Diseases.													
Thrush .. ..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hydatids .. ..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Other Animal Parasitical Diseases .. ..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
III.—Dietic Diseases.													
Starvation .. ..	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
Scurvy .. ..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Chronic Alcoholism, Delirium Tremens .. ..	.....	.....	4	.....	.....	4	.....	.....	3	.....	.....	1	15

TABLE IIIA.—CONTINUED.

CAUSES OF DEATH.	Sunderland.			Bishopwth. North.			Bishopwth. South.			Monkwear-mouth.			Totals.
	Under 1.	1 to 5.	Over 5.	Under 1.	1 to 5.	Over 5.	Under 1.	1 to 5.	Over 5.	Under 1.	1 to 5.	Over 5.	
IV.—Constitutional Diseases.													
Rheumatic Fever and Rheumatism of the Heart						4			1			1	6
Rheumatism			1						2			3	6
Gout													
Rickets											1		1
Cancer, Malignant Disease			18			37			30			22	107
Tabes Mesenterica	3	3		2	5		1	8	1	2	3		28
Tubercular Meningitis, Hydrocephalus ..	1	3	1	1	5	1	1	3	1		4	2	23
Phthisis		1	42		3	78		2	59	1	4	32	222
Other Tubercular & Scrofulous Diseases	1	2	2	1	5	7	1	1	11	1	9	10	51
Purpura, Hæmorrhagic Diathesis						2						1	3
Anæmia, Chlorosis, Leucocythæmia				1		4	1		4				10
Glycosuria, Diabetes Mellitus						1			1			1	3
Other Constitutional Diseases			1	1		1			1				4
V.—Developmental Diseases.													
Premature Birth	12			32			28			25			97
Atelectasis	7			2			1			3			13
Congenital Malformations	1			2			2						5
Old Age			30			45			57			36	168
VI.—Local Diseases.													
<i>1.—Diseases of Nervous System.</i>													
Inflammation of Brain or Membranes ..	1	2	2	4	10	12	9	9	2	14	15	2	83
Apoplexy			16			37			43			20	116
Softening of Brain						1			5				6
Hemiplegia			2			3			5			2	12
Brain Paralysis													
Insanity, General Paralysis of the Insane			1						2			1	4
Epilepsy					2	1			1			2	6
Convulsions	15			19	6		27	1		10	2	1	81
Laryngismus Stridulus													
Paralysis Agitans													
Paraplegia			1			5			1				7
Diseases of Spinal Cord		1				2			2		1		6
Other Diseases of Nervous System			9	1		15	1	1	24			11	62
<i>2.—Diseases of Organs of Special Sense.</i>													
Ear, Diseases of					2	1							3
Eyes,					1							1	2
Nose,													
<i>3.—Diseases of Circulatory System.</i>													
Endocarditis						2			1			1	4
Valvular Diseases of Heart			3			19			16			1	39
Pericarditis						2							2
Other Diseases of Heart	1		31	2		52			50	3		50	189
Aneurism			1			2			1			1	5
Embolism, Thrombosis												1	1
Other Diseases of Blood Vessels										1			1
<i>4.—Diseases of Respiratory System.</i>													
Croup		2					1	2		1	2		8
Laryngitis				1	2	2			1		2	1	9
Bronchitis	40	21	56	33	17	58	50	23	58	13	3	29	401
Pneumonia	4	2	17	9	10	34	13	10	28	2	5	20	154
Broncho-Pneumonia	6	8	3	13	20	5	3	6	5	14	14	1	98
Pleuro-Pneumonia		7										1	8
Pleurisy			1			2			1			1	5
Emphysema												1	1
Asthma			1			2			3				6
Other Diseases of Respiratory System...			1			3			2		1	4	11
<i>5.—Diseases of Digestive System.</i>													
Dentition	2				5			4		3	2		16
Sore Throat, Quinsey													
Diseases of Stomach	2			5	3	2	3		6	1	1	4	27
Enteritis		1	1	10	4	3	6	2	1	20	3		51

TABLE III_B.

SHOWING THE DEATHS FROM ALL CAUSES REGISTERED IN
EACH QUARTER, 1900.

CAUSES OF DEATH.	1st Quarter.			2nd Quarter.			3rd Quarter.			4th Quarter.			Totals
	Under 1.	1 to 5.	Over 5.	Under 1.	1 to 5.	Over 5.	Under 1.	1 to 5.	Over 5.	Under 1.	1 to 5.	Over 5.	
I.—Specific, Febrile Diseases	19	27	46	22	35	23	83	47	26	35	43	32	451
II.—Parasitic Diseases													
III.—Dietic Diseases			3			2			5			3	13
IV.—Constitutional Diseases	4	19	104	6	16	95	4	10	96	5	17	88	464
V.—Developmental Diseases	28		64	29		38	28		38	30		28	283
VI.—Local Diseases	101	74	348	97	63	223	83	57	216	99	56	197	1613
VII.—Deaths from Violence	3		14	10	4	14	7		18	4	3	26	103
VIII.—Deaths from Ill-defined Causes ..	49	4	3	44	2	5	45	5	2	54	5	2	220
TOTALS	204	125	582	208	120	400	250	119	411	227	124	276	3147
I.—Specific or Febrile Causes.													
<i>1.—Miasmatic Diseases.</i>													
Smallpox { Vaccinated													
{ Unvaccinated													
{ Unknown													
Measles	4	16	2	9	25	2	8	10		1	10		87
Scarlet Fever (Scarlatina)	2	4	1		5	1		7	7	2	5	5	39
Diphtheria	1	4	1	1	3	2		3	1	2	2	2	22
Whooping Cough	3				2		3	6		3	13		30
Typhus Fever													
Enteric or Typhoid Fever		1	5			11	1	1	16			21	56
Simple Continued and Ill-defined Fever ..													
Other Miasmatic Diseases	1	2	31			2			3	1		1	41
<i>2.—Diarrhœal Diseases.</i>													
Simple Cholera													
Diarrhœa, Dysentery	2		3	7	1	3	65	19	9	26	13	2	150
<i>3.—Malarial Diseases.</i>													
Remittent Fever													
Ague													
<i>4.—Zoogenous Diseases.</i>													
Cowpox, Effects of Vaccination													
Hydrophobia													
Glanders													
Splenic Fever													
<i>5.—Venereal Diseases.</i>													
Syphilis	4			5			3			1			13
Gonorrhœa, Stricture of Urethra													
<i>6.—Septic Diseases.</i>													
Erysipelas	2		2		1	1	2					1	9
Pyæmia, Septicæmia						1			1				2
Puerperal Fever			1						1				2
II.—Parasitic Diseases.													
Thrush													
Hydatids													
Other Animal Parasitical Diseases													
III.—Dietic Diseases.													
Starvation, want of Breast Milk									1				1
Scurvy													
Chronic Alcoholism, Delirium Tremens ..			3			2			4			3	12

TABLE III B.—CONTINUED.

CAUSES OF DEATH.	1st Quarter.			2nd Quarter.			3rd Quarter.			4th Quarter.			Totals.
	Under 1.	1 to 5.	Over 5.	Under 1.	1 to 5.	Over 5.	Under 1.	1 to 5.	Over 5.	Under 1.	1 to 5.	Over 5.	
IV.—Constitutional Diseases.													
Rheumatic Fever and Rheumatism of the Heart..			1			1			1			3	6
Rheumatism ..			4						2				6
Gout ..													
Rickets ..								1					1
Cancer, Malignant Disease..			27			26			28			26	107
Tabes Mesenterica ..	1	6	1	2	5		1	3		4	5		28
Tubercular Meningitis, Hydrocephalus ..		6	1	2	6	1	1	3				3	23
Phthisis ..	1	4	61		2	55		1	49			3	46
Other Tubercular & Scrofulous Diseases	2	3	6		3	10	1	2	12	1	9	2	51
Purpura, Hæmorrhagic Diathesis ..			1			1						1	3
Anæmia, Chlorosis, Leucocythæmia ..			1	2		1			2			4	10
Glycosuria, Diabetes Mellitus ..			1						1			1	3
Other Constitutional Diseases ..							1		1			2	4
V.—Developmental Diseases.													
Premature Birth ..	22			20			27			28			97
Atelectasis ..	4			7			1			1			13
Congenital Malformations ..	2			2						1			5
Old Age ..			64			38			38			28	168
VI.—Local Diseases.													
<i>1.—Diseases of Nervous System.</i>													
Inflammation of Brain or Membranes ..	6	11	5	11	11	6	4	6	6	7	8	2	83
Apoplexy ..			33			30			24			29	116
Softening of the Brain ..			1			3			1			1	6
Hemiplegia ..			5			3			2			2	12
Brain Paralysis ..													
Insanity, General Paralysis of the Insane ..			1			2						1	4
Epilepsy ..		1	2			1			1		1		6
Convulsions ..	27	4		15	2		16	1	1	13	2		81
Laryngismus Stridulus ..													
Paralysis Agitans ..													
Paraplegia ..			3			1						3	7
Diseases of Spinal Cord ..		1	1			1			2		1		6
Other Diseases of Nervous System ..		1	15	2		14			19			11	62
<i>2.—Diseases of Organs of Special Sense.</i>													
Ear, Diseases of ..						1			1		1		3
Eyes, ..						1	1						2
Nose, ..													
<i>3.—Diseases of Circulatory System.</i>													
Endocarditis ..			2						2				4
Valvular Diseases of Heart..			13			8			9			9	39
Pericarditis ..			1			1							2
Other Diseases of Heart ..	1		57	2		37			46	3		43	189
Aneurism ..			1			1			1			2	5
Embolism, Thrombosis ..									1				1
Other Diseases of Blood Vessels ..				1									1
<i>4.—Diseases of Respiratory System.</i>													
Croup ..	1	2			1		1	1			2		8
Laryngitis ..	1	1	1					1	1		2	2	9
Bronchitis ..	39	22	118	34	21	36	24	11	23	39	10	24	401
Pneumonia ..	7	10	37	6	9	28	8	6	20	7	2	14	154
Broncho-Pneumonia ..	9	11	3	11	6	2	5	16		11	15	9	98
Pleuro-Pneumonia ..					3	1		4					8
Pleurisy ..			1			1			1			2	5
Emphysema ..			1										1
Asthma ..			4			1						1	6
Other Diseases of Respiratory System ..			3			1			4		1	2	11
<i>5.—Diseases of Digestive System.</i>													
Dentition ..	3	4			4		1	1		1	2		16
Sore Throat, Quinsey ..													
Diseases of Stomach ..	1	1	5	6	2	2	2	1	2	2		3	27
Enteritis ..	2	1	1	4			18	4	4	12	5		51

TABLE IIIb.—CONTINUED.

CAUSES OF DEATH.	1st Quarter.			2nd Quarter.			3rd Quarter.			4th Quarter.			Totals.
	Under 1.	1 to 5.	Over 5.	Under 1.	1 to 5.	Over 5.	Under 1.	1 to 5.	Over 5.	Under 1.	1 to 5.	Over 5.	
VI.—Local Diseases—contd.													
Peritonitis	1		3				1		4	2		2	13
Obstructive Diseases of Intestines			3			4			5			6	18
Ascites													
Cirrhosis of Liver			3			7			6			2	18
Jaundice and other Diseases of Liver	1		2	2	1	1	2		3			1	13
Other Diseases of Digestive System	1	1	3	2		4	1	3	1	1	1	1	19
6.—Diseases of Lymphatic System.													
Lymphatics and of Spleen												1	1
7.—Diseases of Glandlike Organs of Uncertain Use.													
Bronchocele													
Addison's Disease													
8.—Diseases of Urinary System.													
Nephritis	1	3	7		1	6			8		2	11	39
Bright's Disease, Albuminuria			2			5			7		1	3	18
Disease of Bladder						1							1
" Prostate													
Other Diseases of the Urinary System			2			3		1	2	1			9
9.—Diseases of Re-productive System.													
A—Of Organs of Generation.													
Male Organs of Generation						1			1				2
Female Organs			2									3	5
B—Of Parturition.													
Abortion, Miscarriage												2	2
Puerperal Convulsions													
Placenta Prævia, Flooding			1						1				2
Other Accidents of Child Birth			4			3			3			2	12
10.—Diseases of Bones and Joints.													
Caries, Necrosis						1			1			1	3
Arthritis, Ostitis, Periostitis						1						1	2
Other Diseases of Bones and Joints			2			3			1			1	7
11.—Diseases of Integumentary System.													
Carbuncle													
Phlegmon													
Cellulitis			1			2							3
Other Diseases of Integumentary System				1				1					2
VII.—Violence.													
1.—Accident or Negligence.													
Fracture and Contusion			5	2	2	3	2		6	1	1	16	38
Gunshot Wound													
Cut, Stab													
Burn and Scald	1		3		1				1		2	2	10
Poison			2			1			1			1	5
Drowning			3			4			5			4	16
Suffocation	2			7		2	5			3		1	20
Otherwise					1				3				4
2.—Homicide (Manslaughter													
Murder				1									1
3.—Suicide			1			4			2			2	9
VIII.—Deaths from Ill-defined Causes.													
Dropsy													
Debility, Marasmus, Atrophy, and Inanition	47	4	1	42		2	45	5	1	50	5	1	203
Mortification			1			1				1			3
Tumour			1		1	2						1	5
Abscess	1			1					1	1			4
Hæmorrhage	1												1
Sudden Death													
Other Causes not specified or Ill-defined				1	1					2			4
TOTALS	204	125	582	208	120	400	250	119	411	228	124	376	3147

TABLE IIIc.

SHOWING THE DEATHS FROM ALL CAUSES FOR FIFTEEN YEARS, 1886-1900

CAUSES OF DEATH.	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899
I.—Specific or Febrile Causes.														
<i>1.—Miasmatic Diseases.</i>														
Smallpox { Vaccinated				1										1
{ Unvaccinated								1						
{ Unknown								4						
Measles	4	168	4	126	19	148	121	17	119	8	138	62	88	42
Scarlet Fever (Scarlatina)	27	17	19	38	72	26	20	26	25	11	28	11	29	40
Diphtheria	5	7	16	19	11	8	8	5	6	8	6	5	11	9
Whooping Cough	51	59	46	68	52	40	99	23	65	62	72	76	68	57
Typhus Fever	7	7	7	8	6	6	7	18	5	2		1		
Enteric or Typhoid Fever	13	30	20	28	35	37	48	108	74	129	54	36	70	51
Simple Continued and Ill-defined Fever	6	6	6	1	4	12	5	9	4	3		2		6
Other Miasmatic Diseases, Influenza					6	30	7	14	3	29	6	13	10	8
<i>2.—Diarrhœal Diseases.</i>														
Simple Cholera				1	1	1	1		1					
Diarrhœa, Dysentery	194	111	59	169	132	127	80	258	113	258	118	182	262	175
<i>3.—Malarial Diseases.</i>														
Remittent Fever											1			
Ague														
<i>4.—Zoonous Diseases.</i>														
Cowpox, Effects of Vaccination														
Hydrophobia														
Glanders														
Splenic Fever													1	
<i>5.—Venereal Diseases.</i>														
Syphilis	20	14	5	16	12	9	18	17	14	10	17	11	9	14
Gonorrhœa, Stricture of Urethra		1		3			2	4						
<i>6.—Septic Diseases.</i>														
Erysipelas	8	7	6	6	14	7	2	10	7	3	2	5	4	4
Pyæmia, Septicæmia	2	4	4	6	5	5	1		4		3	3	2	4
Puerperal Fever	4	3	6	5	5	4	6	2	5	1	1		4	7
II.—Parasitic Diseases.														
Thrush	1		2										1	
Hydatids														
Other Animal Parasitical Diseases														1
III.—Dietic Diseases.														
Starvation, Want of Breast Milk	3	1	2	1	3	5	5	4				1		1
Scurvy						1								
Chronic Alcoholism, Delirium Tremens	3	5	3	6	17	7	2	5	5	6	3	9	7	6
IV.—Constitutional Diseases.														
Rheumatic Fever and Rheumatism of the Heart	2	4	2	3	2	8	4	3	1	2	3		4	2
Rheumatism	4	4	8	4	8	2	10	6	7	2	14		8	5
Gout									3					
Rickets	2		1	4	1		7	8	9	5	9	6	3	4
Cancer, Malignant Disease	54	72	77	88	67	99	78	74	92	82	98	106	108	102
Tabes Mesenterica	19	27	19	34	32	21	19	32	28	62	31	23	33	52
Tubercular Meningitis, Hydrocephalus	34	25	37	91	91	99	104	84	87	48	28	31	46	36
Phthisis	237	203	191	235	239	218	212	203	236	233	207	218	222	235
Other Tubercular and Scrofulous Diseases	26	26	28	39	34	47	28	57	18	32	37	32	44	29

TABLE IIIc.—CONTINUED.

CAUSES OF DEATH.	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900
—Constitutional Diseases.															
<i>(continued)</i>															
Purpura, Hæmorrhagic Diathesis	1	1	.....	3	1	4	2	1	2	.....	.....	.....	1	.....	3
Anæmia, Chlorosis, Leucocythæmia	9	6	9	6	2	9	7	6	3	3	6	6	4	7	10
Nephrosia, Diabetes Mellitus	7	4	8	7	4	8	11	4	5	3	9	4	7	8	3
Other Constitutional Diseases .. .. .	.....	1	.....	.....	.....	2	.....	1	9	1	3	.....	.....	1	4
—Developmental Diseases.															
Immature Birth	60	51	66	66	92	91	83	73	103	98	99	89	124	96	97
Cretinism .. .. .	.....	1	2	1	3	.....	6	3	2	1	9	11	7	5	13
Genital Malformations	3	7	5	6	5	1	11	5	1	2	2	9	6	5	5
Age	125	123	132	145	169	189	136	156	118	163	142	149	162	173	168
—Local Diseases.															
<i>1.—Diseases of Nervous System.</i>															
Inflammation of Brain and Membranes	90	92	96	86	48	43	29	49	7	86	73	67	77	78	83
Epilepsy	50	41	42	54	35	74	64	54	54	88	104	92	96	84	116
Softening of Brain	7	11	3	14	9	7	8	7	3	13	9	5	11	4	6
Paralysis	16	11	14	10	10	20	12	13	19	12	26	18	19	11	12
Cerebral Paralysis .. .. .	.....	1	.....	1	1	.....	.....	.....	.....	2	1	2	.....	.....	.....
Idiocy, General Paralysis of the Insane .. .. .	.....	.....	.....	.....	.....	1	1	.....	.....	10	1	11	14	13	4
Hysteria	5	8	6	7	10	15	20	9	9	8	5	8	7	10	6
Convulsions	102	95	95	103	110	103	95	85	75	94	90	69	99	87	81
Tetanus	1	1	1	2	2	2	.....	.....	1	1	2	.....	.....	.....	.....
Torticollis .. .. .	.....	1	.....	1	.....	1	.....	.....	12	1	1	.....	1	3	.....
Paralysis Agitans .. .. .	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....
Cerebral Palsy	59	34	44	62	65	57	38	41	16	25	19	19	14	7	7
Lesions of Spinal Cord .. .. .	.....	1	2	3	2	1	2	1	10	1	14	6	5	3	6
Other Diseases of Nervous System	17	14	17	6	1	6	6	6	30	7	7	13	20	33	62
<i>2.—Diseases of Organs of Special Sense.</i>															
Deafness, Diseases of	2	2	.....	2	2	2	3	1	5	1	.....	5	5	3	3
Blindness, „ .. .. .	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	2
Deaf-blindness, „ .. .. .	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
<i>3.—Diseases of Circulatory System.</i>															
Myocarditis	1	2	2	2	2	1	.....	4	3	2	2	1	2	5	4
Atherosclerotic Disease of Heart	12	12	3	14	16	21	25	22	14	10	17	19	23	29	39
Endocarditis	7	3	7	5	3	.....	4	1	1	2	.....	3	.....	2	8
Other Diseases of the Heart	135	159	187	182	200	193	153	184	205	190	157	191	214	194	189
Aneurysm	2	3	7	6	7	3	6	10	6	10	7	12	5	6	5
Embolism, Thrombosis	2	2	1	2	3	6	3	2	2	2	4	3	2	.....	1
Other Diseases of Blood Vessels	1	2	4	3	7	4	1	4	2	6	8	7	5	12	1
<i>4.—Diseases of Respiratory System.</i>															
Croup	21	19	24	19	9	14	12	15	10	10	13	3	11	7	8
Diphtheria	7	15	9	7	13	7	8	10	10	13	11	7	8	9	9
Laryngitis	314	235	248	305	400	399	266	260	239	276	237	223	260	317	401
Pneumonia	138	142	193	230	305	224	178	222	198	151	137	148	119	141	154
Lobar Pneumonia	18	50	26	53	45	64	68	55	80	51	87	108	159	101	98
Broncho-Pneumonia .. .. .	.....	4	2	6	7	5	7	1	4	2	6	11	.....	3	8
Empyema	3	1	4	5	4	8	5	8	4	8	8	3	3	8	5
Pleurisy	1	1	2	1	.....	2	1	2	3	2	5	2	.....	3	1
Tuberculosis	8	2	2	4	4	6	4	4	5	5	10	5	8	1	6
Other Diseases of Respiratory System	3	3	4	1	1	5	2	3	14	7	5	2	10	2	11
<i>5.—Diseases of Digestive System.</i>															
Dyspepsia	23	18	19	31	28	30	24	26	31	28	27	22	26	27	16
Diphtheria of Throat, Quinsey	1	3	1	1	1	.....	.....	2	1	.....	1	1	.....	.....	.....
Diseases of Stomach	18	15	16	15	24	10	20	20	17	34	28	19	18	32	27
Gastritis	8	12	8	16	7	30	20	45	25	65	42	88	158	154	51
Enteritis	15	32	28	23	21	22	19	30	38	23	31	16	12	20	13
Structural Diseases of Intestines	16	10	8	9	18	12	9	7	10	13	13	15	21	22	18
Typhoid	1	2	.....	1	1	.....	.....	1	1	.....	1	1	.....	.....	.....
Typhus	24	18	14	14	17	11	10	13	12	15	15	20	12	19	18
Typhoid and other Diseases of Liver	17	30	19	25	18	13	18	20	22	13	20	12	12	14	19
Other Diseases of Digestive System	10	15	7	7	16	21	15	15	23	12	1	15	17	24	19

TABLE IIIc—CONTINUED.

CAUSES OF DEATH.	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899
VI.—Local Diseases—contd.														
<i>6.—Disease of Lymphatic System.</i>														
Lymphatics and of Spleen	1					1				1			1	
<i>7.—Diseases of Glandlike Organs of Uncertain Use.</i>														
Bronchocele														1
Addison's Disease	1	2	2		1					2	2	3		
<i>8.—Diseases of Urinary System.</i>														
Nephritis	18	26	22	15	18	28	22	31	21	13	21	22	34	
Bright's Disease, Albuminuria	14	13	28	15	16	18	20	20	24	19	32	23	18	
Disease of Bladder	6	10	2	3	7	11	5	2	2	3		3	1	
Prostate	4	1	2	1	2	2	2	1	6			4		
Other Diseases of the Urinary System	5	4	6		7	9	5	1	6	3	8	5	3	
<i>9.—Diseases of Re-productive System.</i>														
<i>A—Of Organs of Generation.</i>														
Male Organs of Generation						2			1					5
Female Organs	8	1	3	5	2	1	5	1		1	1	4	6	
<i>B—Of Parturition.</i>														
Abortion, Miscarriage		1			1		1				1		2	
Puerperal Convulsions	4	2	2	1	1	2		2	4	2	4	2	1	
Placenta Previa, Flooding	1	3	2	1	1		2	1	1	1	2			
Other Accidents of Child Birth	13	14	10	7	27	13	10	15	16	3	7	5	10	
<i>10.—Diseases of Bones and Joints.</i>														
Caries, Necrosis	2	2	2	3	1	4	3	4	5	8	5	2	7	
Arthritis, Ostitis, Periostitis		1			1	5	1	1	1	1	2	2		
Other Diseases of Bones and Joints	5	6	9	6	8	2	8	11	4	9	2	4	12	
<i>11.—Diseases of Integumentary System.</i>														
Carbuncle	2	1	1	1		3	1		1		3	1		
Phlegmon														
Cellulitis	1		2		5	1	2	2	3	1	3	2	3	
Other Diseases of Integumentary System	3	1	2	1		1	2	1	2			2	3	
VII.—Violence.														
<i>1.—Accident or Negligence.</i>														
Fracture and Contusion	28	39	33	53	46	29	29	36	11	29	18	18	38	
Gunshot Wound		1												
Cut, Stab				1		1			2					
Burn and Scald	9	13	14	15	8	14	25	13	15	15	17	15	18	
Poison			1	7	3	3	3	4	1	7	1	2	5	
Drowning	14	10	17	10	19	11	15	9	14	9	10	6	9	
Suffocation	5	4	15	14	8	8	12	10	17	17	7	8	11	
Otherwise	5	1	5	2	2	6	1	5	12	1	7	9	2	
<i>2.—Homicide</i>														
{ Manslaughter			1	1		3					1			
{ Murder			2	5	2		1			1		2	2	
<i>3.—Suicide</i>														
.. .. .	11	8	3	8	7	8	15	7	9	9	5	11	10	
VIII.—Deaths from ill-defined Causes.														
Dropsy	2	2	2	4	4	7		2	3	2	5	3		
Debility, Marasmus, Atrophy, & Inanition	193	218	193	287	279	314	239	282	210	215	200	199	183	2
Mortification					1		1				1	2		
Tumour	5	6	5	3	5	5	6	8	11	13	8	13	3	
Abscess	7	7	12	2	13	9	6	10	7	5	6	7	6	
Hemorrhage	4	7	2	7	11	11	9	22	5	14	5	2	2	
Sudden Death	4	5	5			2	3	5	5	1	1	2		
Other Causes not specified or Ill-defined	18	22	14	17	18	25	13	22	2	19	8	3	11	
TOTALS	2479	2549	2375	3063	3140	3273	2774	3023	2815	2990	2784	2777	3236	31

TABLE IV.

OCCUPATION OF PERSONS, 20 Years of Age and upwards, who died from the
undermentioned Diseases during 1900.

(Given as accurately as the Mortality Returns allowed.)

Occupations.	Smallpox.	Enteric Fever.	Typhus Fever.	Heart Disease.	Phthisis.	Pneumonia.	Apoplexy.	Paralysis.	Cancer.	Totals.
Anchor Smith	1	...	...	...	...	...	1
Army Pensioner.....	1	...	...	1
Architect.....	1	...	...	...	...	...	1
Baker	1	1	...	...	2
Barman	1	...	...	1	...	...	...	...	2
Blacksmith.....	...	1	...	3	1	...	1	...	...	6
Blacksmith's Striker.....	1	...	...	...	1	...	2
Blockmaker	1	...	...	...	1
Boatbuilder.....	...	1	...	...	2	...	...	...	...	3
Boatman	1	...	...	...	...	...	1
Board of Trade Surveyor.....	1	...	...	...	1
Boilersmith.....	...	2	...	1	4	1	...	1	1	10
Bonded Store Dealer	1	...	...	...	...	...	1
Bottlemaker	1	2	...	...	2	5
Bricklayer	2	1	1	1	...	...	5
Brick Maker	1	...	...	...	...	...	1
Brakesman	1	1
Brass Finisher	1	...	...	...	1
Butcher	1	2	1	2	1	...	7
Builder	1	...	1	...	2
Cabinet Maker	1	1	1	...	...	...	3
Cabman	2	1	...	...	...	...	3
Caretaker	1	1
Cashier	1	...	1
Cement Manufacturer	1	...	...	...	1
Clerk	2	...	1	5	...	1	2	...	11
Coal Agent	1	...	...	...	...	...	1
Colliery Banksman	1	...	...	...	...	1
Confectioner	1	...	...	...	...	...	1
Coppersmith	1	1	...	...	...	...	2
Craneman	2	...	...	...	...	2
Customs Officer	1	1
Dock Waterman	1	...	...	...	1
Draper.....	1	2	...	...	...	...	3
Driller	1	...	2	1	...	...	...	...	4
Druggist	1	...	...	...	...	...	1
Earthenware Manufacturer.....	1	...	...	...	...	...	1
Engineer.....	1	...	1	2	...	...	4
Engine Driver	1	...	...	1
Engineman.....	1	...	...	...	2	...	3
Evangelist	1	1
Ex-Policeman	1	...	...	...	1
Farmer	1	...	...	...	...	...	1
Fireman	4	1	...	...	...	...	5
Fisherman	1	...	...	...	...	...	1
Fitter	3	...	2	...	...	...	5

TABLE IV.—CONTINUED.

Occupations.	Smallpox.	Enteric Fever.	Typhus Fever.	Heart Disease.	Phthisis.	Pneumonia.	Apoplexy.	Paralysis.	Cancer.	Totals.
Rivetter	2	1	...	...	1	2	6
Rope Maker	1	...	...	1
Saddler	1	...	...	...	...	1
Sawyer.....	...	1	...	...	...	...	1	...	...	2
Schoolmaster	1	...	1	2
Seaman	1	...	7	3	4	7	2	1	25
Shipbuilder.....	1	...	...	...	...	...	1
Shipowner	1	...	...	1	...	...	2
Shipwright	6	...	2	...	2	1	11
Shoemaker	2	2	...	1	...	1	6
Sinker	1	1
Slater	1	...	...	...	...	...	1
Soldier	1	...	...	...	...	...	...	...	1
Solicitor	1	1
Stationer.....	1	...	...	...	1
Stationmaster.....	1	...	...	...	...	...	1
Steamship Manager	1	...	...	...	...	...	...	...	1
Steward	1	...	...	1	...	...	2
Stillman	1	...	...	...	...	...	1
Stone Merchant.....	1	...	...	...	...	...	1
Storekeeper	1	..	1
Stoker	1	1	...	...	1	..	3
Striker.....	1	...	...	...	...	1
Tailor	2	...	...	1	...	3
Tinsmith.....	1	...	...	...	...	1
Tramcar Conductor	1	...	...	...	1
Tramcar Driver.....	1	...	...	...	...	...	1
Trimmer	1	1	...	1	3
Waggonman	1	...	...	...	...	...	1
Warehouseman	3	...	...	...	...	3
Waterman	1	...	...	...	...	...	1
Yeast Merchant.....	1	1	2

TABLE V.

STREETS in which ZYMOTIC DISEASES were known to have occurred in the
Year 1900.

SUNDERLAND (SUB-DISTRICT).

Street.	CASES NOTIFIED.							Removed to Sanatorium.	Deaths.	DEATHS FROM		
	Smallpox.	Enteric Fever.	Typhus Fever.	Continued Fever.	Scarlet Fever.	Diphtheria.	Membranous Croup.			Measles.	Whooping Cough.	Diarrhoea.
Bank street.....	1	...	...	...	...	1	...	1
Barrack street	1	...	...	1	...	...	...	...	...	...	...
Barracks, The.....	...	1	...	...	4	...	...	4	...	...	...	...
Bodlewell lane	1	...	...	...	...	...	1	...	...	...	...
Bowes' quay	1	...	...	1	...	...	1	...	...	...	...
Burleigh street	3	...	...	8	...	...	4	3	4	1	2
Burleigh street open	1	...	...
Chapel street	2	...	...	...	...	...	...	...
Chipchase street	1	...	...	...	...	...	1	...	...	...	...
Church street.....	...	2	...	...	4	...	...	5	...	...	...	1
Coast Guard Station.....	6	...	...	6	...	...	...	...
Coronation street	2	...	...	4	...	...	1	...	...	...	...
Cousin street	1	...	...	2	...	...	...	...	...	...	...
Covent Garden street	1	...	...	1	...	...	1	...	1	...	2
Dean's yard	1	...	...	...	...	...	1	...	...	...	1
Dunn's yard	1	...	...	...	...	...	1	...	...	...	...
Ettrick place	1	...	...	1	...	...	1	...	...	...	...
Ettrick quay	3	...	...	...	...	...	...	...	...	...	...
Fitter's row.....	...	1	...	...	...	...	...	1	...	...	...	...
Flag lane	2	...	...	3	...	...	1	...	1	...	...
George street	1	...	...	2	...	...	1	...	...	...	5
Golden alley	1	...	...	...	...	...	...	1
Grey street	2	...	...	2	...	...	4	1	...	...	...
Hartley street	1	...	...	9	...	...	5	3	3	...	...
Havelock street.....	...	1	...	...	...	...	...	...	1	...	...	...
High street East	4	...	...	5	...	...	6	1	1	...	2
James William street	2	...	...	4	...	...	3	1	...	...	...
Lombard street	1	...	...	...	...	...	...	...
Low quay	1	...	...	...	...	1	...	1	...	...	...
Low street	2	...	...	1	...	...	...	...
Lucknow street	2	...	...	...	...	...	...	...
Maling's rigg	3	...	...	...	1	1	...	...
Maud's lane	1	...	...	...	...	...	...	...

TABLE V.—CONTINUED.

BISHOPWEARMOUTH NORTH SUB-DISTRICT.

Street.	CASES NOTIFIED.							Removed to Sanatorium.	Deaths.	DEATHS FROM		
	Smallpox.	Enteric Fever.	Typhus Fever.	Continued Fever.	Scarlet Fever.	Diphtheria.	Membranous Croup.			Measles.	Whooping Cough.	Diarrhoea.
Abingdon street.....	2	...	...	...	...	...	...	...
Aiskell street	1	...	...	...	...	...	...	...
Albert street	1
Alderson street	3	...	...	...	...	...	3	1	...	...	...
Alexandra terrace (Back)	2	...	...	...	...	...	...	...
Alfred street	1	...	...	1	...	...	...	...	1	...	...
Alliance street	1	...	...	...	...	1	...	...	...
Allonby street	1	...	...	...	...	...	...	...
Ancona street	2	...	...	...	...	2	...	...
Avondale terrace	2	...	...	2	...	...	...	...
Aylmer street.....	1
Ayre's quay road	1	...	...	...	...	...	...	...	...	...	1
Ayre's quay street.....	...	1	...	...	4	...	...	3	1	...	...	2
Barnard street	4	...	...	1	1	...	...	...
Beach street	2	...	...	2	...	...	...	...
Bedford street	2	...	...	...	...	...	...	...
Beechville street	1	1	...	...	1	...	...	...
Bell street	3	...	...	2	...	...	2	...	...	...	...
Bennett street	1	...	...	...	...	...	1	...	...	...	...
Bexley street	1	...	...	5	1	...	...	2	...	...	...
Booth street	1	3	...	...	1	...	...	...	...
Brady street	1	...	...	...	...	...	1	...	...	...	...
Brinkburn street	1	...	...	...	...	...	...	...
Burnaby street	2	...	...	...	...	...	...	...	...	...	...
Carol street.....	1	...	...	1	...	...	...	...
Catherine street.....	...	2	...	1	2	...	...	2	1	2	...	...
Catherine street North...	1	...	...	...	...	...	...	...
Cecil street	1	...	...	1	...	...	1	1	...	...	...
Charles street.....	...	2	...	...	4	...	...	2	...	1	...	1
Chatsworth street	6	1	...	1	...	...	...	...
Chepstow street.....	2	...	...	...	...	...	...	...
Chester crescent.....	1	...	...	1	...	...	...	...
Chester oval	1	...	...	...	...	...	...	...
Chester road	1	...	1	...	...	...	...	...	...	...	...
Chester road West.....	3	...	...	...	...	...	...	...
Chester street.....	...	1	...	...	...	...	...	...	...	...	...	...
Chester terrace	2	...	...	...	...	...	...	...
Church street West	1	...	...	...	...	...	1	1	...	...	...
Cirencester street	1	...	...
Cleft street	2	...	...	...	...	...	2	...	...	...	...
Cleveland road	2	...	...	7	...	...	1	...	...	...	...
Close street.....	...	1	...	...	...	...	...	...	...	...	...	...
Collier row	1
Cornwall street	1	1	...	...	...	...	...	...	...
Crescent row	1	...	...	...	...	...	...	...	...
Crescent row (Back)	1	...	...	...	...	...	...	...	...
Croft avenue	3	...	...	1	...	...	...	1	...	...	...
Cromwell street	2	...	...	...	...	...	...	...

TABLE V.—CONTINUED.

Street.	CASES NOTIFIED							Deaths.	DEATHS FROM			
	Smallpox.	Enteric Fever.	Typhus Fever.	Continued Fever.	Scarlet Fever.	Diphtheria.	Membranous Croup.		Removed to Sanatorium.	Measles.	Whooping Cough.	Diarrhoea.
Dene street.....	2	..	..	1	..	..	1
Deptford road.....	1	4	..	..	1	..	..	..	..
Deptford terrace	1	..	..	3	..	..	1	..	..	..	3
Dock terrace	1
Dove street.....	1	..	..	..	..	..	..	..
Dryborough street.....	1	..	..
Duke street.....	3	..	..	..	..	..	..	..
Dunning street	1	..	..	..
East Cross street	1	..	1	..	2	..	..	..
East Moor road.....	1	..	..	..	..	..	..	..
Eden vale	1	..	..	..	..	..	..	..
Edwin street	1	..	..	..	..	..	..	..
Eldon street	1	..	..	..	..	..	..	1	..	..	..
Elgin street	1	..	..	1	..	..	..	2
Enderby road.....	2	..	..	1	..	..	..	..
Erith terrace	1	..	..	..	..	..	..	..	..	..	..
Exeter street	1	..	..	..	..	..	1	..	..	..	..
Exhibition terrace.....	1	..	..	..
Farrington row	2	..	..	1	..	..	2	2	..	..	..
Farrington row (Back)...	..	2	..	..	..	..	..	2	..	..	..	..
Farrington row (Cross)...	..	1	..	..	..	..	..	1	..	..	..	..
Fern street.....	..	1	..	..	..	..	..	..	..	..	..	..
Fernville street	1
Florida street.....	1	..	..	..	..	..	..	..
Fordlands place.....	4	..	..	1	2	..	..	1
Franklin street	1	..	..	..	..	..	..	..
Garnet street	1	..	..	..	..	..	1	..	..	..	..
General Gordon terrace	1	..	..	9	..	..	..	..	..	..	2
Gerald street	1	..	..	..	..	..	..	1	..	..	..
Gibson terrace	1	..	..	1	..	..	..	..
Gill Bridge avenue.....	2	..	..	..	1	..	..	..
Gilsland street	4	..	..	..	..	..	..	1
Glass street.....	2	1	..	..	1	..	..	..	..
Grace street	1
Grace terrace	1	..	..	2	..	..	..	..	..	..	..
Grafton street	1
Granville street	5	..	..	2	..	..	..	..
Glebe Cleft villas	1	1	..	..	..	..	..	..
Glebe street	1	..	..	..	..	..	..	1	..	..	..
Greta terrace	1	..	..	1	..	..	..	..	..	..	..
Harlow street.....	1	..	..	..	..	..	..
Harper terrace	1	..	..
Harrison street	1	..	..	..	1	..	..	..
Harrison street (Back)...	..	1	..	1	3	..	..	5	..	..	..	..
Hartley's buildings	1	..	..	..	..	..	..	..	..	..	..
Hawthorn street	2	..	..	..	..	..	..	..
Hawthorn street South...	1	..	..	..	..	..	..	..
Hedley street.....	1	6	..	..	1	..	..	..	..

TABLE V.—CONTINUED.

BISHOPWEARMOUTH SOUTH DISTRICT.

Street.	CASES NOTIFIED							Removed to Sanatorium.	Deaths.	DEATHS FROM		
	Smallpox.	Enteric Fever.	Typhus Fever.	Continued Fever.	Scarlet Fever.	Diphtheria.	Membranous Croup.			Measles.	Whooping Cough.	Diarrhoea.
Addison street	1	...	...	2	...	2	...	...	...	...	1
Addison street East	7	...	...	3	...	...	...	...
Alice street	1	...	...	...	...	...	2	...	...	...	...
Amberley street	6	...	...	4	...	...	...	...
Amberley street South	2	...	...	2	...	...	...	...
Ashbrooke mount	2	...	...	1	...	...	...	...
Athol road	3	...	...	...	...	...	...	...
Athol terrace	3	...	...	3	...	...	...	...
Aubrey terrace	1	...	...	1	...	...	...	...	...	...	...
Avenue, The	1	...	...	...	...	...	...	...
Azalea avenue	1	...	...	...	...	...	...	...	...	...	...
Bainbridge holme	1	...	...
Belle Vue park	2	...	...	...	...	...	...	...	...	...	...
Bishopton street.....	1	...	...	...	...	...	...	...
Borough road	2	...	...
Bramwell street	1	...	...	...	...	...	...	...
Brookside gardens	2	...	...	...	...	...	...	...
Brougham street	4	1	5	...	...	...	2	...
Burlington road	1	...	...	...	...	...	...	...	...	...	...
Burn terrace	1	...	...	...	...	1	...	...	...	...	...
Cairo street	5	2	1	4	2	1	...	...
Cedars crescent	1	...	...	1	...	...	...	1	...	...	...
Christopher street	3	1	2	2	1	...	...	...
Churchill street	2	...	...	...	...	...	...	...
Claremont terrace	1	...	...	1	...	...	...	...
Clarke terrace	2	...	...	...	...	...	...	...
Clementina street	3	...	...	2	...	...	1	1
Cliff terrace	2	...	...	...	...	...	...	1
Clyde street	1
Coronation street	1	...	...	...	...	...	1	...	...	...	1
Cousin street	1	...	...	1	...	...	1	...	1	...	...
Crosby terrace	1	...	...	...	...	...	...	...
Crowtree road	1	...	...	...	...	...	...	...
Crowtree terrace	2	...	...	2	...	...	...	...
Cumberland terrace	1	...	...	...	...	...	...	...
D'Arcy street	1
D'Arcy terrace	3	...	...	1	...	...	2	...	1	1	...
Derby street	1	...	...	...	...	...	...	...
Derby street	2	...	...	1	...	...	...	...
East Hendon road.....	1	...	...	...	...	...	...	...
East street	1	...	...	...	...	...	1	...	1	1	...
East Woodbine street	3	...	...	...	...	...	...	...
Eden Vale	1	...	...	...	...	...	...	...
Emma street	2	...	...	3	...	...	2	...	...	...	...
Elms West	2	...	...	...	...	...	...	...
Esplanade West	1	...	...	...	...	...	...	...

TABLE V.—CONTINUED.

Street.	CASES NOTIFIED.							Removed to Sanatorium.	Deaths.	DEATHS FROM		
	Smallpox.	Enteric Fever.	Typhus Fever.	Continued Fever.	Scarlet Fever.	Diphtheria.	Membranous Croup.			Measles.	Whooping Cough.	Diarrhoea.
Ethel street	2	...	1	...	...	...
Fenwick street	1	...	...	...	...	...	...	...
Ford street.....	3	...	...	...	...	...	...	...
Fore street.....	2	...	...	...	...	...	...	...
Fowler terrace	1	...	...	2	1	...	...	2	...	...	1
Foyle street	2	...
Frederick street	1	...	...	1	...	...	2	1	...	...	1
Fuller road	2	...	...	2	...	...	...	...
Grange terrace	1	...	...	1	...	...	...	...
Grove, The	1	...	...	...	...	...	...	...	...	...	...
Guildford street	2	...	...	2	...	...	2	1	...	...	...
Harrogate street	1	...	...	1	...	...	2	...	...	...	...
Hastings street	1	...	...	...	...	...	...	...	...	...	...
Hedworth street	3	...	...	4	...	...	5	1	1	...	...
Hedworth terrace	1	...	...	4	...	...	...	...	...	...	...
Hendon road	2	...	...	5	...	...	7	1	...	...	...
Hendon street	7	...	...	5	...	...	8	1	...	...	2
Henry street	1	...	...	5	1	...	3	1	1	...	...
Henry street East	1	...	...	...	...	...	...	...
Herrington street	2	...	...	...	...	...	...	1	...	...	1
Hutchinson terrace	2	...	...	...	...	...	2	...	...	...	...
Hyde street	1	...	...	...	...	...	...
Infirmery, The	3	...	...	5	1	3	...	1	...	...	...
King street	2	...	...	...	...	...	...	...
Lawrence street	2	...	...	...	...	...	...	2
Lilburne street	1	...	...
Lindsay road	1	...	...	...	...	...	...	...
Mainsforth terrace	1	...	...	...	...	1	...	...
Marion street.....	...	2	...	...	...	...	...	...	...	...	...	...
Marshall street.....	1
Middle street.....	...	1	...	...	...	...	...	...	...	...	...	...
Moor street	2	...	...	...	...	...	2	...	...	...	1
Morley street	2	...	...	2	...	...	...	1
Mowbray road	1	...	...	...	...	...	1	...	...	...	...
Nicholson street	2	...	...	...	...	...	...	...	...	...	...
Nile street	1	...	...	5	...	...	5	2	...	...	1
" " (Back).....	1
Noble's Bank road	1	...	...	...	...	...	...	1
Noble street	2	...	...	...	...	...	...	...
North Durham street	1	...	...	2	1	...	...	...
Norman street	1	...	...	...	1	...	1
Old Mill road.....	...	1	...	...	3	...	...	3	...	...	...	...
Otto terrace	2	...	...	2	...	...	...	...
Page street	3	...	...	2	...	...	...	...	...	...	...
Parade	4	...	2	6	...	2	9	1	1	...	...
Park place East.....	1	...	1	...	...	...	1	1
Park terrace	1	...	...	...	...	...	...	...
Pemberton street	1	...	...	...	...	...	1	...	...	...	...

TABLE V—CONTINUED.

Street.	CASES NOTIFIED.							Removed to Sanatorium.	Deaths.	DEATHS FROM		
	Smallpox.	Enteric Fever.	Typhus Fever.	Continued Fever.	Scarlet Fever.	Diphtheria.	Membranous Croup.			Measles.	Whooping Cough.	Diarrhoea.
Princess street	1	..	..	..	..	..	..	1	1	..	..	..
Randolph street .....	..	..	..	..	2	..	..	..	..	..	..	..
Regent terrace .....	..	..	..	..	3	..	..	..	..	..	..	..
Ridley terrace .....	..	..	..	..	1	..	..	..	..	21	..	..
Riversdale terrace .....	..	..	..	..	5	..	..	..	..	..	..	..
Robinson street	1	..	..	..	1	..	..	1	..	..	..	..
Robinson terrace	1	..	..	..	1	..	..	1	..	..	..	..
Rock terrace .....	..	..	..	..	2	..	..	..	..	..	..	1
Rosalie terrace	1	..	..	..	..	..	..	1	..	..	..	..
Salem hill	1	..	..	..	1	..	..	2	..	..	..	..
Salem street South	2	..	..	..	1	..	..	..	..	..	..	..
Sans street	3	..	..	..	..	..	..	3	..	..	..	..
Sans street South .....	..	..	..	..	4	..	..	2	..	..	..	1
Saville place .....	..	..	..	..	5	..	..	3	..	..	..	..
Short street.....	2	..	..	1	2	..	..	3	..	..	..	1
Smyrna place .....	..	..	..	..	3	..	..	..	..	..	..	..
South Durham street	6	..	..	..	4	..	..	8	..	1	..	..
Spelter Works road	1	..	..	..	1	..	..	..	..	..	..	..
St. Leonard street .....	..	..	..	..	2	..	..	..	..	1	..	..
Suffolk street .....	..	..	..	..	2	..	..	..	..	..	..	2
Surtees street	2	..	..	..	..	..	..	2	..	..	..	..
Sussex street	5	..	..	..	..	..	..	8	..	1	..	2
Sussex street (Back)	2	..	..	..	..	..	..	3	..	..	..	..
Tavistock place	1	..	..	..	..	..	..	..	..	..	..	..
Teesdale street	1	..	..	..	1	..	..	..	..	..	..	..
Tees street .....	..	..	..	..	..	..	..	..	..	5	..	2
Thompson street .....	..	..	..	..	3	..	..	..	..	..	..	..
Thornhill .....	..	..	..	..	..	1	..	..	..	..	..	..
Thornhill gardens .....	..	..	..	..	2	..	..	2	..	..	..	..
Thornhill gardens South .....	..	..	..	..	4	..	..	3	..	..	..	..
Tower street	2	..	..	..	2	..	..	2	1	..	..	..
Tower street West .....	..	..	..	..	3	..	..	..	..	..	..	..
Tunstall vale .....	..	..	..	..	1	..	..	..	..	..	..	..
Tyne street .....	..	..	..	..	1	..	..	..	1	..	..	..
Upper Sans street .....	..	..	..	..	6	..	..	3	..	..	..	1
Vane terrace	1	..	..	..	3	..	..	1	1	1	..	..
Villette mount .....	..	..	..	..	1	..	..	1	..	..	..	..
Villette road .....	..	..	..	..	5	..	..	..	..	..	..	..
Villiers street	2	..	..	..	4	..	..	6	..	..	..	2
Villiers street (Back).....	2	..	..	..	..	..	..	2	..	..	..	..
Villiers street South .....	..	..	..	..	..	..	..	..	..	..	..	1
Wall street .....	..	..	..	..	2	..	..	1	..	..	..	..

TABLE V.—CONTINUED.

Street.	CASES NOTIFIED.							Removed to Sanatorium.	Deaths.	DEATHS FROM		
	Smallpox.	Enteric Fever.	Typhus Fever.	Continued Fever.	Scarlet Fever.	Diphtheria.	Membranous Croup.			Measles.	Whooping Cough.	Diarrhoea.
Ward street	1	...	...	10	...	...	2	1	...	...	..
Wear street	1	...	...	13	...	...	1	...	..	...	2
West Lawrence street	1	...	...	1	...	...	...	...
Whitehouse place	2	...	...	...	...	...	...	...
Whitehouse road	2	...	...	1	...	...	...	...
Windsor terrace	1	...	...	...	...	...	...	...
Woodbine street.....	...	6	...	...	8	...	..	4	3	...	...	..
Woodbine street East	3	...	...	...	1	1	...	1
Woodbine terrace	1	..	...	1	...	...	...	1	...	...	...
Woodside.....	1	...	...	...	...	...	...	...
Zion street	1	...	..

MONKWEARMOUTH SUB-DISTRICT.

Street.	CASES NOTIFIED.							Removed to Sanatorium.	Deaths.	DEATHS FROM		
	Smallpox.	Enteric Fever.	Typhus Fever.	Continued Fever.	Scarlet Fever.	Diphtheria.	Membranous Croup.			Measles.	Whooping Cough.	Diarrhoea.
Abbs street.....	1	..	..
Albany street.....	1
Barclay street.....	2	1	..	..	..	..	..	..
Barclay street (Back)	1	..	..
Barrington street	1
Beatrice street	1	..	..	1	..	..	..	..
Blue Bell yard	2	..	..	1	..	..	..	..
Bond street.....	4	..	..	2	..	..	..	..
Brandling street.....	..	1	..	..	..	..	..	1	1	..	..	..
Bright street	1	..	..	..	..	..	..	1	..	..	..
Brooke street	4
Brooke street (Back).....	1	1	..	..	..	..	..	..	1
Burn's yard.....	1	..	..	..	..	..	..	..
Byron street	1	..	..	..	..	..	1	..	..	..	2
Causeway, The	1	..	..	..	..	..	..	..
Charles street North.....	1	..	..
Chilton street.....	..	1	..	..	2	..	..	1	..	..	..	1
Church street North.....	..	2	..	..	1	..	..	1	1	1	..	..
Church street(NorthBack)	..	1	..	..	..	..	..	1	..	..	..	..
Colliery square	1	3	..	..	1	..	..	..	1
Cooper street	1	..	..	1	..	..	1	..	..	..	..
Dame Dorothy street	1	5	..	..	2	..	..	..	1
Devonshire street	1	..	..	..	..	..	..	1	..	..	..	..
Dixon's square	1	..	..	1	..	..	..	..	..	..	..
Dock street.....	4	..	..	4	..	..	..	..
Dock street East	6	..	..	..	..	..	..	..
Duke street.....	1	..	..	..	..	..
Dundas street.....	3	..	..	..	..	..	..	..
Dundas street (Back)	1	..	..	..	..	..	1	1	..	..	..
Eglinton street	2	1	..	..	..	..	..	..
Eglinton street North	1	..	..	..	..	..	..	..	..	..	..
Ellerslie terrace	1	..	..	1	..	..	..	..	..	..	..
Empress street).....	..	1	..	..	..	..	..	..	1	..	..	1
Finsbury street	2	..	..	..	..	..	..	1
Forster street.....	5	..	..	..	..	..	..	..
Francis street	1	..	..	..	..	..	..	..
Garden court.....	1
Gladstone street.....	3	..	..	1	..	..	..	..
Gosforth street	1	..	..	..	1	1	..	..
Hallgarth square	2	..	..	..	..	..	2	..	..	..	..
Hardwicke street	2	..	..	..	..	1	1	..	..	1	1
Hartington street	1	..	..	1	..	..	..	..
Hedworth street.....	1	..	..	..	1	..	..	..	..
Hood street.....	5	1	..	..	..	..	..	..
Howick place	3	..	..	1	..	..	..	..
Howick street.....	1	..	..	..	..	..	..	..
Huddleston street	1	..	..	1	1	..	..	..
Joannah street	1	..	..	..	..	..	..	..
Lawson's court	1	..	..	..	..	..	1	..	..	..	..

TABLE V.—CONTINUED.

Street.	CASES NOTIFIED.							Removed to Sanatorium.	Deaths.	DEATHS FROM		
	Smallpox.	Enteric Fever.	Typhus Fever.	Continued Fever.	Scarlet Fever.	Diphtheria.	Membranous Croup.			Measles.	Whooping Cough.	Diarrhoea.
Lidde'll terrace	1	..	..	..	..	..	1	..	..	..	2
Long row	3	..	..	..	..	..	..	1
Look-out hill	2	..	..	..	..	..	..	..	..	..	..
Millum terrace	2	..	..	2	..	..	..	1
Moreland street.....	..	1	..	..	..	..	..	..	..	..	..	..
Mulgrave street.....	2	..	..	2	..	..	..	..
Newcastle road	1	..	..	1	..	..	1	..	..	..	..
North Bridge street	1	..	..	..	..	..	..	..
North Bridge street(Back)	1
Osborne street	2	1	..	..	2	..	..	..
Park view	1	..	..	..	..	..	..	..
Peareth	1	..	..	..	..	..	..	..	..
Pilgrim street.....	1	..	1	..	1	..	..	2
Rendlesham street.....	1	..	..	1	1	..	..	..
Ripon street	1	..	..	..	..	..	..	..
Roker avenue.....	1	..	..	..	..	..	..	..
Ross street	1	..	..	..	..	..	..	..	1	..	1
Rothsay street	1	2	..	..	1	..	..	..	1
Sheepfolds	2	..	..
Sheepfolds (Back)	1	..	..	..	..	..	..	..
Society lane	1	..	..	..	..	..	1	..	..	..	..
St. George's terrace	1	..	..	..	..	..	..	..
Stansfield street.....	1	..	..	..	..	..	..
Stobart street.....	1	..	..	..	..	..	..	..
Thomas street.....	..	1	..	..	..	..	..	1	..	..	..	..
Victoria cottages	2	..	..	2	..	..	..	..
Victor street	6	..	..	3	1	..	5	2	2	..	1
Warwick street	3	..	..	..	..	..	..	..
Waterloo place	1
Wayman street	3	..	..	4	..	..	3	..	..	..	..
Wearmouth street.....	..	1	..	..	1	..	..	2	..	..	..	..
Westcott terrace	1	..	..	..	..	..	..	..
Whickham street	1	..	..	1	..	..	..	..	..	..	..
Whitburn street..	2	..	..	4	..	..	1	1	..	..	..
Williamson terrace	1	..	..	..	1	..	1	..	..	..	..
Williamson terrace(Back)	..	1	..	..	..	..	..	1	..	..	..	..
Wilson street North	1	..	..	1	..	..	1	..	..	..	..
Woodger terrace	1	..	..
Wreath hill.....	2	..	..	..	..	..	..	..
Zetland street.....	..	2	..	..	3	..	..	4	..	..	..	..

TABLE VI.—Continued.

Street.	1895.		1896.		1897.		1898.		1899.		1900.	
	Enteric	Continued	Enteric	Continued	Enteric	Continued	Enteric	Continued	Enteric	Continued	Enteric	Continued
Elgin street .....	...	...	1	...	1	..	1	...	...	...	...	...
Enderby road .....	...	...	...	...	1	...	1	...	...	...	...	..
Erith terrace .....	..	...	...	...	...	...	...	...	...	...	1	...
Exeter street	1	1	...	...	...	1	1	...	...	...	1	...
Exhibition terrace .....	...	1	...	...	...	...	...	...	...	...	...	...
Farrington row	4	2	2	...	2	...	...	...	2	..	3	...
Farrington road Back ..	2	...	...	...	1	...	...	...	...	...	2	...
Fern street .....	...	...	...	...	...	...	...	...	1	...	1	...
Florida street .....	...	...	...	...	...	...	1	...	...	...	...	...
Franklin street	1	...	...	...	...	...	...	1	...	...	...	...
Frederick terrace .....	...	3	2	1	...	...	...	...	...	...	...	...
Garden place .....	...	1	...	...	...	...	...	...	...	...	...	...
Garfield street .....	...	...	1	...	...	...	...	...	1	...	...	...
Garnet street .....	...	...	...	...	...	...	...	...	...	...	1	...
General Gordon terrace ...	...	...	...	...	...	...	...	...	...	...	1	...
General Graham street ...	...	...	...	...	...	...	1	...	...	...	...	...
George street	1	...	...	...	...	...	...	...	...	...	...	...
Gerald street .....	...	...	...	...	2	...	...	...	...	...	1	...
Gerald street Back.....	...	...	...	...	...	...	1	...	...	...	...	...
Gibson terrace.....	...	...	...	...	...	...	1	...	...	...	...	...
Gill Bridge avenue.....	...	...	...	...	1	...	..	...	1	...	...	...
Gilsland street.....	...	...	...	...	...	...	1	...	...	...	...	...
Glass street .....	...	...	...	...	..	...	...	...	2	...	1	1
Glebe Cleft villas	1	...	...	...	...	...	1	...	...	...	..	...
Glebe street.....	1	...	...	...	1	...	...	...	2	...	1	...
Gourley street.....	...	...	...	...	1	...	...	...	...	...	...	...
Grace street.....	2	...	...	...	...	...	...	...	...	...	...	...
Granville street	1	1	...	...	1	...	...	...	...	...	...	...
Green Dragon Inn .....	...	...	...	...	1	...	...	...	...	...	...	...
Green street.....	1	...	1	...	...	...	1	...	1	...	...	...
Greta terrace .....	...	...	...	...	...	...	...	...	...	...	1	...
Hanover place.....	3	...	...	...	...	...	3	...	3	1	...	...
Harrison street	1	...	...	...	...	...	...	...	...	...	...	1
Harrison street Back.....	1	...	1	...	...	...	1	...	...	...	...	1
Hartley's buildings.....	...	...	...	...	...	...	...	...	...	...	1	...
Hawthorn street.....	...	...	1	...	...	...	...	...	...	...	...	...
Hedley street	4	...	1	...	2	...	2	1	...	...	...	1
Hetton Staithes cottages..	...	...	...	...	...	...	...	...	1	...	...	...
Hetton street .....	...	...	...	...	...	...	2	...	...	...	...	...
High Barnes terrace .....	...	...	...	...	...	...	...	...	1	...	...	...
High street West	1	...	...	...	...	...	...	...	3	...	...	...
Hillfield .....	...	1	...	...	...	...	...	...	...	...	...	...
Holly terrace .....	...	...	...	...	1	...	1	...	1	...	1	...
Hope street	2	...	1	...	...	...	2	1	...	1	2	...
Hopper street	1	1	...	...	...	...	2	1	2	...	2	...
Hopper street Back .....	...	...	...	...	...	...	1	...	...	...	...	...
Hort street .....	...	...	...	...	1	...	...	...	1	...	...	...
Houghton street.....	1	...	...	...	...	1	...	...	1	...	...	...
Howarth street .....	...	...	...	...	...	...	2	...	...	...	...	...

TABLE VI.—Continued.

Street.	1895.		1896.		1897.		1898.		1899.		1900.	
	Enteric	Continued	Enteric	Continued	Enteric	Continued	Enteric	Continued	Enteric	Continued	Enteric	Continued
Howarth street South ...	1	...	...	...	...	...	...	...	...	...	...	...
Hume street .....	...	...	1	...	1	...	...	...	1	1	...	...
Hylton road.....	1	...	...	...	2	...	...	...	...	...	...	...
Hylton street .....	...	...	...	...	...	...	1	1	...	...	2	...
Infirmery row .....	...	...	...	...	...	...	1	...	2	...	1	...
Jackson street.....	...	...	...	...	...	...	...	1	...	1	1	...
James street .....	...	...	...	...	1	...	1	...	...	...	...	...
Jobling street .....	...	...	1	...	...	...	...	...	...	...	...	...
John Candlish road	1	...	...	...	...	...	...	...	...	...	...	...
John street West	1	...	...	...	...	...	...	...	...	...	...	...
Johnson street.....	...	...	...	...	...	...	1	3	1	...	...	...
Johnson terrace .....	...	...	...	...	...	...	...	...	...	...	1	...
Kayll road .....	...	...	...	...	...	...	1	...	...	...	...	...
Kingsley street	1	...	...	...	...	...	...	...	1	...	...	...
King's road	1	...	...	...	...	...	...	...	1	...	1	...
King's place.....	...	...	...	...	1	...	...	...	...	...	2	1
Laing's ferryboat house...	...	...	...	...	...	...	...	...	1	...	...	...
Lambton street .....	...	...	...	...	...	...	...	...	1	...	...	...
Landsale buildings.....	...	...	3	...	...	...	1	...	...	...	...	...
Lansdowne street .....	...	...	...	...	...	...	1	...	...	...	...	...
Lily street .....	...	...	...	...	...	...	...	...	1	...	...	...
Lime street .....	...	...	...	...	1	...	2	...	...	...	...	...
Lincoln street	1	1	...	...	...	...	...	...	...	...	1	...
Lisburn terrace .....	...	1	1	...	...	...	...	...	...	...	1	...
Lister street.....	...	...	2	...	...	...	...	...	...	1	...	...
Livingstone road.....	...	...	...	...	...	...	...	1	1	...	...	...
Low row .....	...	...	...	...	...	...	...	...	1	...	...	...
Low row, Hat & Feather yard .....	...	...	1	...	...	...	...	...	...	...	...	...
Lumley street .....	...	...	...	...	...	...	...	...	1	...	...	...
Maple street	2	...	1	...	...	...	...	...	1	...	...	...
Marlborough street .....	...	...	...	1	...	...	4	...	1	1	2	...
Matamba terrace .....	...	...	...	...	...	...	1	...	...	...	...	...
May street .....	...	...	...	...	...	...	...	...	1	...	1	...
Merle terrace .....	...	1	...	...	...	...	1	...	1	...	...	...
Milburn street.....	5	...	1	7	...	...	4	...	2	...	3	...
Mill street .....	...	...	1	...	1	...	...	...	1	...	...	...
Moor street	3	...	...	...	...	...	...	...	...	...	...	...
Mortimer street	1	...	...	...	1	...	1	...	...	...	1	...
Mount Pleasant	2	...	...	...	3	...	1	...	...	...	...	...
Napier street .....	...	...	...	...	1	...	...	...	...	...	...	...
Naylor street .....	...	...	...	...	...	...	...	...	...	1	2	...
Neville street	1	...	...	...	2	...	1	1	...	1	...	...
North Hedley street .....	...	...	...	...	1	...	2	...	...	...	1	...
North Milburn street.....	...	...	...	...	...	1	...	...	1	...	...	...
North Rutland street.....	...	...	...	...	2	...	...	...	...	1	...	...
Number's garth	2	...	...	...	...	...	1	...	...	1	3	...
Oates street.....	...	...	...	...	...	...	...	...	...	...	1	...
Oswald street .....	...	...	...	...	...	...	2	...	...	...	...	...

TABLE VI.—Continued.

Street.	1895.		1896.		1897.		1898.		1899.		1900.	
	Enteric	Continued	Enteric	Continued	Enteric	Continued	Enteric	Continued	Enteric	Continued	Enteric	Continued
Thelma street .....	...	...	...	...	...	...	...	...	1	...	...	...
Thornton place .....	...	...	...	...	...	...	1	...	...	...	...	...
Trewhitt's crescent.....	...	...	...	...	...	...	...	...	1	...	...	...
Trimdon street	4	4	...	...	7	...	1	1	2	...	...	...
Trimdon street West.....	4	1	1	...	...	...	1	...	...	...	...	...
Vale street .....	...	...	...	...	...	...	...	...	1	...	1	...
Victoria buildings	1	...	...	...	...	...	...	...	...	...	...	...
Walker street	1	...	...	...	...	...	...	...	1	...	...	...
Walworth street .....	...	...	...	...	...	...	1	...	...	...	...	...
Warrennes street .....	...	...	...	...	...	...	2	...	1	...	1	...
Washington street .....	...	...	1	1	...	...	...	...	1	...	1	...
Waterworks road .....	...	...	...	...	...	...	3	...	1	...	...	...
Water street .....	...	...	1	1	...	...	...	...	...	...	...	...
Watson's lane	1	1	...	...	1	...	...	...	...	...	1	...
Watson street	1	...	...	...	...	...	...	...	...	...	...	...
Wellington lane	1	2	1	...	...	...	...	...	...	1	3	...
Well street	1	1	...	...	...	...	...	...	...	...	...	...
Westbourne road	1	...	1	...	...	...	...	...	1	...	...	...
Westbury street	2	...	...	...	1	...	...	...	...	...	...	...
West Wear street .....	...	...	1	...	...	...	...	...	1	...	...	...
Westwood street.....	...	...	...	...	...	...	...	...	...	...	...	1
Wharncliffe street .....	...	...	...	...	...	...	4	...	2	...	...	...
Whitehall terrace .....	...	...	...	...	...	...	5	1	2	...	...	...
White house, Pallion	1	...	...	...	...	...	...	...	1	...	...	...
Wilfred street .....	...	...	1	...	...	...	...	...	...	...	1	...
William street	1	1	1	...	1	1	3	...	...	...	...	...
Williams street	2	...	4	...	1	...	1	...	1	...	1	1
Willow Pond terrace	1	...	...	...	...	...	1	...	...	...	...	...
Wilson street West .....	...	1	...	...	...	...	1	...	...	...	...	...
Wolseley terrace .....	...	...	1	...	...	...	...	...	...	...	...	...
Wood street.....	...	...	...	...	...	...	...	...	1	...	...	...
Woodbine terrace, Pallion	...	...	1	1	...	1	...	...	1	...	1	...

TABLE VI.—Continued.
BISHOPWEARMOUTH SOUTH DISTRICT

Street.	1895.		1896.		1897.		1898.		1899.		1900.	
	Enteric	Continued	Enteric	Continued	Enteric	Continued	Enteric.	Continued.	Enteric	Continued	Enteric	Continued
Addison street.....	20	...	...	...	...	...	1	...	1	...	1	...
Addison street East	25	..	1	...	...	...	1	...	...	...	...	...
Adelaide place	1	...	...	...	...	...	1	...	1	...	...	...
Albany terrace	5	...	...	...	...	...	...	...	...	...	...	...
Alice street .....	...	...	...	...	1	...	...	...	...	...	1	...
Amberley street	4	...	1	...	1	...	...	...	...	...	...	...
Amberley street South ...	...	...	...	...	1	...	...	...	...	...	...	...
Ann street .....	..	...	1	...	1	...	...	...	...	...	...	...
Ashbrooke mount .....	...	...	1	...	...	...	...	...	...	...	...	...
Ashmore street	1	...	...	...	...	...	...	...	...	...	...	...
Athol road	5	1	...	...	...	...	...	...	...	...	...	...
Aubrey terrace .....	...	...	...	...	...	...	...	...	...	...	1	...
Avenue, The .....	...	...	1	...	...	...	1	...	...	...	...	...
Avenue terrace .....	...	...	...	...	...	...	...	1	...	...	...	...
Avon street	1	..	...	...	1	...	...	...	1	...	...	...
Azalea avenue.....	...	...	1	...	...	...	...	...	...	...	1	...
Azalea terrace South.....	...	...	...	...	...	...	1	..	...	...	...	...
Belford terrace.....	..	...	...	...	...	...	...	...	1	...	...	...
Belle Vue crescent .....	..	...	...	...	...	...	1	...	...	...	...	...
Belle Vue park	1	..	1	...	...	...	...	...	...	...	...	...
Belle Vue road.....	...	...	...	...	...	...	...	...	...	...	2	...
Bishopton street .....	..	...	..	..	1	...	..	..	..	..	..	..
Borough road	2	...	1	...	...	1	...	...	...	...	...	...
Bramwell street	20	...	1	...	...	...	1	...	...	...	...	...
Briery Vale road.....	1	...	...	...	...	...	...	...	...	...	...	...
Brookside terrace .....	..	...	...	...	1	...	...	...	...	...	...	...
Brougham street.....	4	...	4	..	1	...	3	...	...	...	1	...
Burlington road .....	..	...	1	...	1	...	...	...	1	...	1	...
Burn terrace	2	...	...	...	...	...	...	...	...	...	1	...
Cairo street .....	...	...	...	...	...	...	...	...	1	...	...	...
Canon Cockin street	1	...	...	...	...	...	...	...	...	...	...	...
Carlyon street	1	1	...	...	1	1	...	...	1	...	...	...
C. dars crescent .....	...	...	...	...	...	...	...	...	...	...	1	...
Churchill street .....	...	...	2	..	...	...	...	...	1	...	...	...
Christopher street	2	...	...	...	...	...	...	...	...	...	...	...
Clark terrace	7	...	...	...	1	...	...	...	...	...	...	...
Clementina street	6	...	...	...	...	...	...	...	1	...	...	...
Cliffe terrace .....	..	...	...	...	1	...	1	...	...	...	...	...
Clyde street.....	2	...	...	...	...	...	1	...	...	...	...	...
Commercial road.....	...	...	...	...	...	...	1	..	1	...	...	...
Coronation street	2	...	1	...	...	...	4	...	...	...	...	...
Coronation street (Back)	1	...	1	...	...	...	...	...	...	...	2	...
Cousin street	1	...	1	...	3	...	...	...	...	...	1	...
Coxon street	1	...	...	...	...	...	...	...	...	...	...	...
Cresswell terrace.....	..	...	...	...	1	...	...	...	...	...	...	...
Crow street	1	...	...	...	...	...	...	...	...	...	...	...
Crowtree road ...	1	...	...	...	...	...	...	...	...	...	...	...
Cumberland terrace	6	...	1	...	...	...	...	...	2	...	...	...
D'Arcy street	2	...	2	...	2	...	...	...	1	...	...	...

TABLE VI.—Continued.

Street.	1895.		1896.		1897.		1898.		1899.		1900.	
	Enteric	Continued	Enteric	Continued	Enteric	Continued	Enteric	Continued	Enteric	Continued	Enteric	Continued
Hutchinson terrace.....	...	...	...	...	...	...	...	...	...	...	1	...
Infirmary .....	...	...	...	...	...	...	3	...	1	...	3	...
John street .....	...	...	...	...	...	...	...	...	2	...	...	...
Kensington terrace South	...	...	...	...	...	...	1	...	...	...	...	...
King street	2	...	...	...	...	...	...	...	1	...	...	...
Laura street.....	...	...	...	...	...	...	...	...	1	...	...	...
Lawrence street	13	1	...	...	1	...	2	1	2	...	...	...
Lawton street.....	1	...	...	...	...	...	...	...	...	...	...	...
Lilburn street .....	...	...	1	...	...	...	...	...	...	...	...	...
Littlegate.....	1	...	...	...	...	...	...	...	2	...	...	...
Lodge terrace.....	1	...	1	...	...	...	2	...	...	...	...	...
Lorne terrace .....	...	...	1	...	...	...	1	...	...	...	...	...
Mainsforth terrace.....	2	...	2	...	...	...	...	...	...	...	...	...
Mainsforth terrace West	1	...	1	...	...	...	2	...	...	...	...	...
Marion street	1	...	...	...	...	...	...	...	4	...	1	...
Marshall street	3	...	1	...	...	...	...	1	1	...	...	...
Middle street .....	...	...	...	...	...	...	...	...	1	...	1	...
Moor street .....	...	...	...	...	...	...	...	...	2	...	2	...
Mordey street	7	...	1	...	...	...	...	...	...	...	...	...
Mowbray road.....	3	...	...	...	...	...	...	...	...	...	1	...
Mowbray villa.....	...	...	1	...	...	...	...	...	...	...	...	...
Murton street	1	...	...	...	1	...	...	...	1	...	...	...
Nelson street	1	...	...	...	...	...	1	...	...	...	...	...
Nicholson street	1	...	...	...	2	...	...	...	...	...	2	...
Nile street	1	...	1	...	...	...	...	...	3	...	1	...
Nile street (Back) .....	...	...	...	...	1	...	...	...	...	...	...	...
Noble street.....	1	...	...	...	...	...	2	...	4	...	...	...
Norfolk street .....	...	...	1	...	...	...	...	...	...	...	...	...
Norman street.....	...	...	1	1	...	...	5	...	2	...	...	...
Norman street (Back) .....	...	...	...	...	...	...	2	...	...	...	...	...
Northcote avenue .....	...	...	1	...	...	...	...	...	...	...	...	...
North Durham street.....	1	...	...	...	...	...	4	...	...	...	...	...
Northumberland street	4	...	...	...	1	...	2	...	2	...	...	...
Nursing Institute .....	...	...	...	...	2	...	...	...	...	...	...	...
Oak street .....	...	...	...	...	...	...	2	...	...	...	...	...
Old Mill road .....	...	...	...	...	...	...	...	...	1	...	1	...
Olive street .....	...	...	...	...	...	...	3	...	...	...	...	1
Page street .....	...	...	1	...	...	...	...	...	1	...	3	...
Parade	2	...	1	...	2	...	1	...	1	...	1	...
Parade (Back)	3	...	...	...	...	...	...	...	...	...	...	...
Peel street	1	...	...	...	1	...	...	...	...	...	...	...
Pemberton street .....	...	...	...	...	...	...	...	...	1	...	1	...
Percy terrace	1	...	...	...	...	...	...	...	...	...	...	...
Princess street.....	1	...	...	...	...	...	...	...	...	...	1	...
Railway street.....	1	...	1	...	...	...	...	...	...	...	...	...
Reynoldson street	1	...	...	...	...	...	...	...	...	...	...	...
Ridley terrace	1	...	...	...	...	...	2	...	...	...	...	...
Robinson street	5	...	...	...	...	...	1	...	...	...	...	...
Robinson terrace.....	2	...	1	...	...	...	2	...	3	...	2	...
Robinson terrace (Back)	...	...	1	...	...	...	1	...	...	...	...	...

TABLE VI.—Continued.

Street.	1895.		1896		1897.		1898.		1899.		1900.	
	Enteric	Continued	Enteric	Continued	Enteric	Continued	Enteric.	Continued.	Enteric	Continued	Enteric	Continued
West Sunnyside	1	...	...	...	...	...	...	...	...	...	...	...
Whitehouse crescent	2	...	...	...	...	...	...	...	...	...	...	...
Whitehouse road.....	6	...	1	...	...	...	...	...	...	...	...	...
Willows, The .....	...	...	2	...	...	...	...	...	...	...	...	...
Winchester terrace.....	4	...	1	...	...	...	1	...	...	...	...	...
Winifred terrace.....	...	...	...	...	...	...	1	...	...	...	...	...
Woodbine street	7	...	3	...	1	...	3	...	1	...	6	...
Woodbine Street East ...	...	...	...	...	...	...	...	...	1	...	...	...
York street	1	...	...	...	...	...	...	...	...	...	...	...
Zion street	4	1	...	...	1	...	...	...	2	...	1	...

MONKWEARMOUTH DISTRICT.

Street.	1895.		1896.		1897.		1898.		1899.		1900.	
	Enteric	Continued	Enteric	Continued	Enteric.	Continued.	Enteric.	Continued.	Enteric	Continued	Enteric	Continued
Albany street	1	...	...	...	1	...	...	...	...	...	...	...
Barclay street .....	...	...	1	...	4	...	...	...	...	...	...	...
Barrington street	2	1	2	...	...	...	1	...	...	...	...	...
Beatrice street.....	1	...	...	...	...	...	1	...	...	...	...	...
Bewick's court .....	...	...	...	...	...	...	...	...	1	...	...	...
Bond street	6	...	2	...	3	...	1	1	...	1	...	...
Bonner's field	1	1	...	...	1	...	1	...	1	...	...	...
Bloomfield street.....	1	...	...	...	...	...	...	...	1	...	...	...
Brandling street	3	...	...	...	...	...	...	...	...	...	1	...
Brewery bank	1	...	...	...	...	...	2	...	...	...	...	...
Bright street	7	...	2	...	1	...	2	...	2	1	...	...
Brooke street	1	...	2	...	1	...	...	...	3	...	...	...
Brooke street (Back)	1	...	...	...	2	1	1	...	...	...	...	...
Byron street.....	2	...	1	...	2	...	8	1	2	...	1	...
Cage hill .....	...	...	...	...	...	...	1	...	...	...	...	...
Causeway, The.....	...	...	1	...	...	...	1	...	...	...	...	...
Charles street	1	...	...	...	...	...	1	...	...	...	...	...
Chilton street	1	...	...	...	...	1	5	...	...	...	1	...
Church street North	8	...	...	1	3	...	3	...	...	...	1	...
Cooper street .....	...	...	...	1	...	...	1	...	1	...	1	...

TABLE VI. — Continued.

Street.	1895.		1896.		1897.		1898.		1899.		1900.	
	Enteric	Continued	Enteric	Continued	Enteric.	Continued.	Enteric	Continued	Enteric	Continued	Enteric	Continued
Colliery square .....	...	...	...	..	...	...	...	...	1	..	1	...
Dame Dorothy street.. ...	6	3	1	...	1	...	4	...	1	...	...	1
Devonshire street .....	..	...	4	...	1	...	1	..	1	...	...	...
Dixon square	1	...	1	...	...	...	...	...	...	...	1	...
Dock street	6	...	2	1	...	...	2	...	...	1	...	...
Dock street East	2	...	2	...	...	...	1	..	...	1	...	...
Duke street.....	2	1	1	1	1	...	...	...	1	...	...	...
Dundas street.....	3	4	1	1	1	...	2	..	3	...	...	...
Dundas street (Back).....	...	2	...	...	...	...	...	...	...	...	1	...
Easington street .....	...	...	...	...	...	...	1	...	1	...	...	...
Eglinton street	1	...	2	...	2	...	4	1	2	...	1	...
Eglinton street North .....	...	...	...	...	1	...	1	...	...	...	...	...
Ellerslie terrace .....	...	...	...	...	...	...	...	...	1	...	1	...
Empress street .....	...	...	...	...	...	...	...	...	...	...	1	...
Featherstone street .....	...	..	2	...	...	...	...	...	...	...	...	...
Finsbury street .....	...	...	1	...	2	2	2	..	1	...	...	...
Folly end.....	...	...	...	...	...	1	...	...	...	...	...	...
Forster street	1	1	...	...	1	...	1	...	...	...	...	...
Francis street .....	...	...	...	1	1	...	..	...	...	...	...	...
Fulwell road	5	...	3	...	...	...	1	...	1	...	...	...
Garden court	1	..	...	...	...	...	...	...	1	...	...	...
George street	3	..	...	...	...	...	1	..	2	1	...	...
Gladstone street	4	...	2	...	1	..	...	...	...	...	...	...
Gosforth street	3	...	1	...	...	...	2	1	1	...	...	...
Hallgarth square	2	...	1	...	...	...	1	..	1	...	2	...
Hamilton street	2	...	1	1	...	...	...	...	2	...	...	...
Hamilton street (Back) ...	...	...	...	...	...	...	1	...	...	...	...	...
Hardwicke street	3	...	1	...	1	...	1	...	...	1	2	...
Hartington street .....	...	...	...	...	...	...	3	...	...	...	...	...
Hedworth place .....	...	1	...	...	...	...	...	...	1	...	..	...
Hedworth street North... ..	2	...	...	...	...	...	...	...	2	...	2	...
Hodgson's buildings .....	...	...	...	...	1	...	...	...	...	...	...	...
Hood street.....	2	1	1	...	2	...	6	...	2	...	...	...
Howick place	1	..	1	...	...	...	...	...	...	...	...	...
Howick street .....	...	1	...	...	...	...	...	...	1	...	...	...
Horatio street .....	...	...	...	1	...	...	1	1	...	...	...	...
Huddleston street	1	1	...	1	...	...	...	...	...	...	1	...
Lawson's court .....	...	...	...	...	...	...	...	...	...	...	1	...
Liddell street .....	...	...	...	1	...	...	...	...	...	...	...	...
Liddell terrace.....	...	...	...	1	...	...	...	1	1	...	1	...
Long row	5	...	3	...	1	...	1	...	...	...	...	...
Look Out hill .....	...	...	...	...	...	...	...	...	...	...	2	...
Mill row	7	1	1	...	...	...	...	...	1	...	...	...
Millum place	1	...	...	...	...	...	...	...	...	...	...	...
Millum terrace .....	...	...	...	...	1	2	...	...	2	...	...	...
Millum terrace (Back) .....	...	...	...	...	...	...	1	...	...	...	...	...
Moreland street .....	...	...	...	...	...	...	...	...	...	...	1	...
Mulgrave street .....	...	...	1	...	5	...	1	1	3	...	...	...
New Brandling street.....	5	1	...	...	...	...	10	...	...	...	...	...
Newcastle road .....	...	...	...	...	...	...	...	...	1	...	1	...

TABLE VI.—Continued.

Street.	1895.		1896.		1897.		1898.		1899.		1900.	
	Enteric	Continued	Enteric	Continued	Enteric.	Continued.	Enteric	Continued	Enteric	Continued	Enteric	Continued
Normanby street.....	..	...	2	...	...	...	2	1	...	..	...	..
North Bridge street ....	...	...	...	..	...	...	1	...	...	...	...	..
North Bridge street (Back)	...	...	...	...	...	...	1	...	...	...	...	..
North quay	1	...	...	...	...	...	...	...	...	...	...	..
Osborne street.....	1	...	...	...	...	...	3	...	...	...	...	..
Peareth.....	...	...	...	...	...	...	...	...	...	...	...	1
Pilgrim street	1	...	...	...	1	..	1	..	1	..	1	..
Portobello lane .....	..	...	..	...	..	...	..	1	2	..	..	..
Rendlesham street	2	...	..	...	..	...	..	..	..	..	..	..
Richmond street.....	1	...	2	...	1	..	5	1	2	..	..	..
Richmond street (Back)...	...	...	...	...	...	...	2	...	..	..	..	..
Ripon street.....	...	...	2	...	1	...	...	..	2	..	..	..
Roker avenue	4	2	2	...	2	..	...	..	1	1	1	..
Ross street	3	...	2	...	1	...	2	...	2	..	1	..
Rothsay street.....	1	...	...	1	2	...	3	...	..	..	..	1
Sheepfolds	2	...	...	...	...	...	...	..	2	..	..	..
Society lane.....	...	...	1	...	...	...	3	...	1	...	1	..
South cliff .....	...	...	...	...	...	...	1	...	..	..	..	..
Stansfield street .....	...	...	...	...	...	...	1	...	..	..	..	..
Stobart street	1	...	..	...	1	...	1	...	..	..	..	..
Swan street .....	...	...	...	...	...	...	1	...	..	..	..	..
Thomas street North	2	...	...	...	1	...	...	..	1	...	1	..
Victoria cottages.....	..	...	...	...	..	2	1	...	..	..	..	..
Victoria terrace .....	...	...	..	...	..	1	...	..	..	..	..	..
Victor street.....	17	5	6	4	5	...	3	...	1	...	6	..
Wardell terrace .....	..	...	..	...	..	...	...	..	1	...	..	..
Warwick street	1	1	...	...	1	..	1	..	..	..	..	..
Waterloo place.....	...	...	..	...	...	...	..	..	1	...	..	..
Wayman street	3	...	...	...	...	...	4	1	2	...	3	..
Wearmouth street .....	...	...	...	...	1	..	..	..	1	...	1	..
Whickham street .....	...	...	1	...	..	2	...	..	1	...	1	..
Whitburn street	1	...	2	...	...	...	1	...	2	...	2	..
Williamson street	1	...	...	...	...	...	..	..	..	..	..	..
Williamson terrace	1	...	...	...	...	...	..	..	..	..	..	..
Williamson terrace (Back)	...	...	...	...	...	...	1	..	..	..	1	..
Wilson street	2	2	...	...	...	...	..	..	2	1	1	..
Workman's hall	1	...	...	...	...	...	..	..	..	..	..	..
Woodger terrace.....	...	...	..	...	...	...	..	..	1	...	..	..
Wreath quay road	1	...	...	...	...	...	..	..	1	...	..	..
Yorke street.....	1	...	...	...	...	...	..	..	..	..	..	..
Zetland street	4	1	1	...	...	..	...	..	..	..	2	..

TABLE VII.

Showing the STATE of VACCINATION in the entire Districts of the Sunderland Union for the Year ending June, 1900, and for the Ten preceding Years

(AS FURNISHED BY MR. A. S. FOX, VACCINATION OFFICER.)

Year.	Births Registered.	Total Vaccinated.		Postponed by Medical Authority.	Died previous to Vaccination.	Removal into other Unions.
		Succ.	Unsuc.			
1890	6011	4989	12	100	645	247
1891	6118	5011	10	135	667	270
1892	6078	5052	11	134	598	258
1893	5910	4610	14	198	733	341
1894	5926	4483	11	146	651	455
1895	6099	4300	25	115	729	720
1896	6091	4500	23	180	762	602
1897	6040	4302	20	210	728	707
1898	6202	4606	28	182	689	697
1899	6352	4355	27	161	947	794
Average for } 10 Years, } 1890-99. }	6083	4621	18	156	715	509
1900	6501	4706	34	173	924	627

35 Certificates of (Conscientious Objectlon) Exemption, 1900.

TABLE VIII.

Showing the Deaths in each Week from 1885 to 1900.

WEEKS.	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900
1st	53	47	39	52	60	57	73	64	57	55	56	41	46	51	60	70
2nd	56	42	48	36	58	69	58	65	59	58	52	35	53	56	66	63
3rd	63	61	56	51	54	53	60	60	56	70	81	39	64	56	59	86
4th	66	49	55	51	52	48	56	47	50	43	34	44	54	43	62	86
5th	64	60	48	51	50	75	52	53	49	43	54	44	50	42	76	101
6th	78	54	42	44	46	66	47	53	55	56	45	65	58	60	78	87
7th	91	75	55	36	55	72	62	40	49	52	54	50	51	42	66	68
8th	71	54	40	60	57	68	71	50	50	56	58	48	58	50	65	63
9th	101	51	38	34	49	69	75	49	49	39	45	50	51	64	65	52
10th	116	73	66	44	55	64	56	66	41	56	73	47	41	67	51	51
11th	106	55	67	56	36	69	54	66	60	45	72	65	58	57	57	57
12th	97	48	82	49	74	47	54	50	44	60	80	50	59	62	59	70
13th	96	38	55	60	49	57	59	58	54	52	61	60	61	55	65	58
14th	69	49	63	38	47	64	64	52	51	49	68	49	50	55	65	49
15th	79	36	45	45	59	51	70	66	65	47	50	74	47	51	62	47
16th	75	41	66	41	44	54	61	61	44	51	64	59	58	67	59	60
17th	57	43	49	46	36	59	59	62	55	47	52	62	51	74	64	50
18th	52	51	51	40	51	70	62	72	51	45	41	59	51	56	48	71
19th	60	39	38	43	45	56	62	58	46	42	36	62	60	46	60	56
20th	58	41	37	43	51	75	67	54	51	35	42	62	40	67	56	66
21st	50	47	39	47	54	70	62	70	50	49	44	66	46	74	56	65
22nd	45	40	37	40	48	50	55	49	36	53	49	65	50	67	49	51
23rd	33	46	49	46	55	45	57	46	60	49	39	38	47	65	58	55
24th	42	29	29	49	54	51	45	49	49	41	30	56	52	50	50	50
25th	44	39	37	41	47	53	49	45	64	54	45	59	54	59	43	60
26th	45	36	32	34	65	45	51	57	47	47	56	51	48	63	45	48
27th	52	32	32	46	55	47	50	59	52	46	45	57	38	58	44	68
28th	44	41	43	48	78	52	44	45	58	55	48	60	66	50	45	49
29th	51	38	39	36	69	47	67	50	78	55	53	57	44	47	35	65
30th	46	49	36	40	72	52	50	58	65	56	59	57	53	54	48	51
31st	57	48	60	34	70	52	54	61	72	45	42	84	44	66	52	63
32nd	61	40	50	33	73	46	61	35	66	58	63	57	69	51	49	52
33rd	48	58	61	34	76	59	67	49	80	80	58	53	66	61	51	52
34th	55	45	44	33	60	64	67	42	72	68	70	65	85	97	91	56
35th	56	50	55	52	58	58	51	46	67	56	82	47	74	102	80	50
36th	40	66	48	39	53	65	65	55	78	52	107	46	61	98	89	63
37th	41	65	55	36	66	57	70	54	77	64	99	48	71	112	82	61
38th	48	68	56	55	65	72	83	52	69	40	87	33	57	102	79	72
39th	39	49	48	41	71	65	58	53	80	54	78	40	47	89	69	78
40th	46	54	56	43	66	67	65	54	61	51	76	55	58	84	65	71
41st	45	47	46	63	72	60	57	43	52	58	68	58	47	70	56	59
42nd	41	52	63	74	61	66	59	54	65	59	52	48	46	71	56	60
43rd	34	33	45	56	59	72	63	34	41	70	73	47	41	64	65	57
44th	36	38	51	53	59	46	72	48	56	62	59	44	41	50	53	42
45th	45	37	36	49	64	49	83	48	72	63	54	56	48	42	52	61
46th	45	47	44	54	69	57	80	41	52	60	53	54	58	47	43	52
47th	52	38	43	47	67	63	81	49	72	65	40	49	44	56	51	50
48th	44	54	43	44	78	43	98	45	63	59	48	44	48	44	49	76
49th	42	50	44	33	56	69	79	61	62	71	36	43	45	63	49	60
50th	45	45	57	41	74	61	77	69	49	59	39	41	69	60	56	53
51st	50	49	58	67	56	51	68	48	57	54	53	41	47	47	82	43
52nd	47	45	53	57	62	85	63	59	65	60	47	38	52	53	78	43
53rd .....	...	...	...	...	...	58	...	...	...	...	...	63	...	...	...	...

TABLE VIII.A.

Showing the Death-Rates in each Week from 1885 to 1900.

WEEKS.	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900
1st	22.5	19.7	16.3	21.2	24.3	22.9	28.6	25.1	22.1	21.1	21.2	15.5	16.8	18.5	21.5	24.8
2nd	23.8	17.7	19.9	14.8	23.6	27.7	23.0	25.5	22.8	22.2	19.7	13.0	19.4	20.3	23.6	22.3
3rd	26.7	25.4	23.1	20.8	22.0	21.5	23.7	23.6	21.7	26.8	30.7	14.5	23.5	20.3	21.1	30.4
4th	27.9	20.5	22.7	20.8	21.2	19.5	22.4	18.5	19.4	16.5	20.4	16.3	19.2	15.6	22.2	30.4
5th	27.1	25.1	19.9	20.8	20.4	29.9	20.7	20.8	19.0	16.5	20.4	16.3	18.3	15.2	27.2	35.7
6th	32.9	22.6	17.5	18.1	18.9	26.0	19.8	20.8	21.4	21.7	17.0	24.1	21.3	21.8	27.9	30.8
7th	37.9	31.2	22.7	14.9	22.3	28.7	24.7	15.7	19.0	20.2	20.4	18.5	18.7	15.2	23.6	24.1
8th	25.8	22.6	16.7	24.4	23.1	27.2	27.1	19.6	19.4	21.7	21.9	17.8	21.3	18.1	23.3	22.3
9th	42.5	21.4	15.9	14.1	20.0	27.6	29.6	19.2	19.0	15.1	17.0	18.5	18.7	23.2	23.3	18.4
10th	48.7	30.4	27.1	18.0	22.4	25.7	22.4	25.9	15.9	21.7	27.6	17.5	15.0	24.3	18.3	18.1
11th	44.3	23.0	27.5	22.8	15.0	27.6	21.7	25.9	23.3	17.5	27.2	24.2	21.3	20.7	20.4	20.2
12th	40.8	20.2	33.5	20.1	29.8	18.8	21.7	19.6	17.0	23.0	30.2	18.6	21.8	22.5	21.1	24.8
13th	40.4	16.1	22.7	24.4	20.1	23.0	23.6	22.8	21.0	19.9	23.0	22.3	22.4	19.9	23.3	20.5
14th	29.2	20.6	25.9	15.7	19.3	25.7	25.4	20.4	19.8	18.8	25.7	18.2	18.3	19.9	23.3	17.3
15th	33.3	15.2	18.7	18.4	23.9	20.3	27.7	25.9	25.2	18.0	18.9	27.5	17.2	18.5	22.2	16.6
16th	31.7	17.3	27.1	16.9	18.1	21.4	24.3	24.0	17.1	19.5	24.2	21.9	21.3	24.3	21.1	21.2
17th	34.2	18.1	20.4	18.9	15.0	23.7	23.6	24.4	21.4	18.0	19.6	23.0	18.7	26.8	22.9	17.7
18th	22.1	21.4	21.2	16.5	20.8	27.5	24.7	28.3	19.8	17.2	15.5	21.9	18.7	20.3	17.2	25.1
19th	25.5	16.5	16.0	17.7	18.5	22.6	24.7	22.8	17.9	16.1	13.6	23.0	22.0	16.7	21.5	19.8
20th	24.6	17.3	14.8	17.7	20.8	29.8	26.6	21.2	19.8	13.4	15.9	23.0	14.7	24.3	20.1	23.4
21st	21.1	19.8	16.4	19.3	22.0	27.9	23.3	27.5	19.4	18.8	16.6	24.5	16.8	26.8	20.1	23.0
22nd	19.2	16.9	15.6	16.5	19.7	20.3	21.8	19.2	14.0	20.3	18.5	24.2	18.3	24.3	17.6	18.1
23rd	14.2	19.4	20.4	18.9	22.4	18.4	22.6	18.0	23.3	18.8	14.7	14.1	17.2	23.6	20.8	19.5
24th	18.0	12.4	20.4	16.1	22.0	20.7	17.9	19.2	19.0	15.7	11.3	20.8	19.1	18.1	17.9	17.7
25th	18.8	16.5	15.6	16.9	19.3	21.5	19.4	17.7	24.8	20.6	17.0	21.9	19.8	21.4	15.4	21.2
26th	19.2	15.3	13.5	14.1	26.3	18.4	20.2	22.4	18.2	18.0	21.1	19.0	17.6	22.9	16.1	17.0
27th	22.1	13.6	13.5	18.9	22.4	19.2	19.8	23.2	20.2	17.6	17.0	21.2	13.9	21.0	15.8	24.1
28th	18.8	17.3	18.0	19.7	31.5	21.1	17.5	17.7	22.5	21.1	18.1	22.3	24.2	18.1	16.1	17.3
29th	21.7	16.1	16.4	14.9	27.8	19.2	22.6	19.6	30.3	21.1	20.0	21.5	16.1	17.0	12.5	23.0
30th	19.6	20.6	15.1	16.5	28.2	21.0	19.8	22.8	25.2	21.4	22.3	21.7	19.4	19.6	17.2	18.1
31st	24.2	20.2	24.8	14.1	29.8	21.1	21.4	23.9	27.9	17.6	15.8	31.2	16.1	23.9	18.6	22.3
32nd	25.9	16.5	20.8	13.7	29.3	18.5	24.2	13.7	25.7	22.2	23.8	21.2	25.3	18.5	17.6	18.4
33rd	20.5	24.3	25.2	14.1	30.5	23.7	26.6	19.2	31.0	30.6	21.9	19.7	24.2	22.1	18.3	18.4
34th	23.2	19.0	18.3	13.8	24.3	25.6	26.6	16.5	27.9	26.0	26.5	24.1	31.2	35.2	32.6	19.8
35th	23.8	21.0	22.8	21.0	23.5	23.4	20.2	18.0	26.0	21.4	31.0	17.5	27.2	37.0	28.7	17.7
36th	17.2	27.5	19.9	16.1	21.6	25.6	25.8	21.6	30.3	19.9	40.5	17.1	22.4	35.6	31.9	22.3
37th	17.6	27.1	22.8	14.9	26.7	23.0	27.8	21.2	29.9	24.5	37.4	17.8	26.1	40.6	29.4	21.6
38th	20.5	28.0	23.2	22.3	26.3	28.7	33.0	20.4	28.8	15.3	33.5	12.3	20.9	37.0	28.3	25.5
39th	16.7	20.6	19.9	16.9	28.6	25.6	23.0	20.8	31.0	20.6	29.1	14.8	17.3	32.3	24.7	27.6
40th	19.6	22.6	23.2	17.7	26.7	26.3	25.8	21.2	23.7	19.5	28.7	20.4	21.3	30.5	23.3	25.1
41st	19.2	19.8	19.1	25.6	29.0	24.1	22.6	16.9	20.2	22.2	25.7	21.5	17.3	25.4	20.1	20.9
42nd	17.6	21.4	26.0	29.9	24.7	26.0	23.4	21.2	25.2	22.6	19.7	17.8	16.9	25.8	20.1	21.2
43rd	14.7	14.0	18.9	22.9	23.9	28.7	25.0	13.4	15.9	26.8	27.6	17.4	15.1	23.2	23.3	20.0
44th	15.5	16.1	21.2	21.7	23.9	18.8	28.6	18.9	21.7	23.7	22.3	16.3	15.1	18.1	19.0	14.9
45th	19.2	15.7	15.2	20.1	25.9	19.9	33.0	18.8	27.9	24.1	20.4	20.7	17.6	15.2	18.6	21.6
46th	19.2	19.8	18.3	22.0	27.8	23.0	31.8	16.1	20.2	22.9	20.0	20.1	21.3	17.0	15.4	18.4
47th	22.1	16.1	18.9	19.3	27.4	25.2	32.2	19.2	27.9	24.9	15.1	18.2	16.2	20.3	18.3	17.7
48th	18.8	22.6	17.9	18.1	31.3	17.6	39.0	17.7	24.4	22.6	18.1	16.3	17.6	16.0	17.6	24.8
49th	18.0	21.0	19.3	27.1	22.8	27.6	31.4	24.0	24.0	27.2	13.9	15.9	16.5	22.9	17.6	21.2
50th	19.2	19.0	23.6	16.9	29.8	25.5	30.6	27.1	19.0	22.6	14.7	15.2	25.3	21.8	20.1	18.8
51st	21.3	20.6	24.0	27.2	22.8	20.3	27.0	18.8	22.1	20.6	20.0	15.2	17.3	17.0	29.4	15.2
52nd	20.1	19.0	22.0	23.2	25.1	33.1	25.0	23.2	25.2	22.9	17.6	14.1	19.1	19.2	27.9	15.2
53rd	...	...	...	...	...	23.4	...	...	...	...	...	23.0	...	...	...	...

B.--The rates from 1884 to 1890 have been corrected on populations based on the 1891 Census.

TABLE IX.

Meteorological Observations from January to March, 1900.

JANUARY.						FEBRUARY.						MARCH.					
Date.	Barometer.	Thermo- meter.		Direction of Wind.	Rainfall.	Date.	Barometer.	Thermo- meter.		Direction of Wind.	Rainfall.	Date.	Barometer.	Thermo- meter.		Direction of Wind.	Rainfall.
		Highest	Lowest					Highest	Lowest					Highest	Lowest		
1	29.882	43.0	33.0	WSW	.77	1	29.701	38.0	31.0	SW	.02	1	30.252	41.0	35.0	NE	.00
2	29.575	44.0	30.0	E	.25	2	29.838	39.0	30.0	NE	.01	2	30.281	42.0	34.0	NNW	.00
3	29.302	44.0	39.0	SW	.12	3	29.888	39.0	30.0	NE	.12	3	30.164	42.0	36.0	N	.00
4	29.635	41.0	38.0	N	.03	4	29.691	39.0	35.0	N	.05	4	30.189	41.0	36.0	NW	.00
5	29.943	41.0	36.0	NE	.00	5	29.642	38.0	34.0	NE	.07	5	30.173	41.0	36.0	NNE	.00
6	29.950	39.0	35.0	S	.33	6	29.790	37.5	28.0	WNW	.00	6	30.289	40.0	36.0	WNW	.00
7	29.695	44.0	33.0	NW	.03	7	29.794	28.0	21.0	W	.00	7	30.228	41.5	36.0	NNW	.00
8	29.892	46.0	37.0	WSW	.00	8	29.878	35.0	20.0	W	.14	8	30.202	42.0	37.0	NW	.00
9	29.873	45.0	36.0	WSW	.00	9	29.881	30.0	24.0	WSW	.14	9	30.192	44.0	35.0	WNW	.00
10	30.029	42.0	38.0	WNW	.00	10	29.576	34.5	25.0	WNW	.55	10	30.303	48.0	31.0	S	.00
11	30.313	40.0	33.0	W	.02	11	29.095	35.0	28.0	NW	.00	11	30.229	48.0	35.0	SE	.00
12	30.267	39.0	35.0	SW	.18	12	29.151	38.0	20.0	SW	.00	12	30.345	49.0	38.0	NW	.00
13	30.127	38.0	35.0	S	.03	13	29.449	43.0	23.0	WSW	.05	13	30.435	47.0	39.0	N	.00
14	29.847	38.0	34.0	SSW	.08	14	29.706	40.0	26.0	NW	.00	14	30.517	54.0	39.0	NW	.00
15	29.274	45.0	33.0	SW	.04	15	29.748	43.0	28.0	SSE	.72	15	29.937	48.0	41.0	W	.00
16	29.283	42.0	34.0	SW	.00	16	28.815	43.0	32.0	SW	.12	16	29.412	42.0	30.0	W	.00
17	29.416	39.0	33.0	W	.12	17	28.862	42.0	32.0	SSW	.00	17	29.377	37.0	27.0	NE	.40
18	29.618	43.0	36.0	WNW	.00	18	29.037	46.0	33.0	WSW	.12	18	29.417	38.0	19.0	NNE	.00
19	29.844	49.0	45.0	SW	.01	19	29.607	43.0	36.0	SSE	.19	19	29.358	43.0	28.0	S	.00
20	29.989	44.0	37.0	SW	.00	20	28.567	36.0	32.0	WNW	.11	20	29.632	42.0	35.0	SE	.30
21	29.997	48.0	34.0	S	.02	21	29.304	36.0	28.0	W	.03	21	29.813	41.0	37.0	E	.10
22	29.796	53.0	35.0	SW	.00	22	29.246	41.0	30.0	SE	.35	22	29.831	41.0	37.0	E	.00
23	29.764	53.0	43.0	WNW	.00	23	29.392	53.5	35.0	SE	.01	23	30.049	41.0	37.0	NE	.00
24	29.447	49.5	44.0	WNW	.00	24	29.652	50.0	40.0	SW	.00	24	30.040	39.5	36.0	ENE	.00
25	30.005	48.0	37.0	W	.00	25	29.761	47.0	37.0	WNW	.00	25	29.902	42.0	36.0	NNW	.20
26	29.767	51.0	41.0	SW	.00	26	29.782	41.0	39.0	NE	1.53	26	29.660	37.0	28.0	NW	.20
27	29.391	42.0	33.0	SW	.00	27	29.591	41.0	37.0	NE	.41	27	29.656	38.0	28.0	NW	.00
28	29.356	41.0	27.0	NE	.12	28	29.993	41.0	35.0	NE	.03	28	29.600	41.0	28.0	N	.00
29	29.860	41.0	35.0	NW	.09							29	29.857	41.0	30.0	WNW	.00
30	29.824	40.0	35.0	NE	.17							30	30.005	45.0	30.0	W	.00
31	29.891	39.0	36.0	ENE	.23							31	30.324	46.0	28.0	SSE	.00

Mean Height of Barometer in
Month, 27.769.
Adopted Mean Temperature 39.6.
Rainfall, 2.64 in.

Mean Height of Barometer in
Month, 29.551.
Adopted Mean Temperature 35.1.
Rainfall, 4.79 in.

Mean Height of Barometer in
Month, 29.973.
Adopted Mean Temperature, 38.5.
Rainfall, 1.82 in.

TABLE IX.—CONTINUED.

Meteorological Observations from April to June, 1900.

APRIL.						MAY.						JUNE.					
Date.	Barometer.	Thermo- meter.		Direction of Wind.	Rainfall.	Date	Barometer.	Thermo- meter.		Direction of Wind.	Rainfall.	Date.	Barometer.	Thermo- meter.		Direction of Wind.	Rainfall.
		Highest	Lowest					Highest	Lowest					Highest	Lowest		
1	30·211	50·0	31·0	SSW	·00	1	29·834	51·0	40·0	WNW	·00	1	30·340	47·0	43·0	NE	·00
2	30·141	47·0	33·0	WNW	·00	2	29·755	60·0	42·0	SE	·00	2	30·249	48·0	43·0	NE	·00
3	29·678	41·0	35·0	SE	·23	3	29·220	55·0	47·0	SSW	·24	3	30·039	53·0	41·0	NNE	·00
4	29·148	47·0	37·0	WNW	·00	4	29·647	61·5	42·0	S	·00	4	30·085	48·0	42·0	N	·00
5	29·489	47·0	39·0	W	·00	5	29·651	62·0	51·0	NNE	·00	5	30·048	48·0	43·0	NE	·00
6	29·776	45·0	37·0	W	·00	6	29·647	56·0	45·0	NNE	·26	6	29·915	51·0	44·0	NE	·00
7	29·858	53·5	37·0	ENE	·01	7	29·401	59·0	45·0	SSW	·00	7	29·705	58·0	46·0	ESE	·00
8	29·919	44·0	39·0	N	·00	8	29·720	55·0	39·0	SW	·42	8	29·665	58·0	46·0	ESE	·03
9	29·649	50·0	33·0	SE	·00	9	29·653	47·0	43·0	NNE	·00	9	29·733	63·0	41·0	SE	·00
10	29·474	54·0	38·0	NW	·12	10	30·060	47·0	42·0	ENE	·00	10	29·790	65·0	51·0	SE	·00
11	29·269	57·0	41·0	W	·20	11	30·051	45·0	39·0	NE	·01	11	29·768	66·0	52·0	E	·50
12	29·500	53·0	42·0	W	·10	12	30·050	47·0	36·0	NE	·00	12	29·838	65·0	52·0	E	·01
13	29·210	56·0	43·0	W	·00	13	30·126	47·0	38·0	NE	·03	13	29·776	70·0	51·0	ESE	·00
14	29·715	61·0	40·0	SW	·00	14	30·160	47·0	39·0	NNE	·00	14	29·952	70·0	49·0	WSW	·26
15	29·582	56·0	48·0	WSW	·01	15	30·190	53·0	41·0	NE	·00	15	29·781	66·0	7·0	S	·00
16	29·409	53·0	41·0	W	·05	16	30·144	58·0	44·0	NNE	·00	16	29·861	70·0	5·0	W	·03
17	29·990	58·0	39·0	W	·01	17	30·028	58·0	41·0	NW	·00	17	29·825	72·0	58·0	W	·00
18	30·267	58·0	41·0	W	·00	18	30·006	48·0	43·0	N	·00	18	29·995	64·0	52·0	NW	·12
19	30·440	58·0	53·0	WSW	·00	19	30·022	57·0	38·0	NW	·00	19	29·865	60·5	53·0	SE	·00
20	30·425	74·0	43·0	WSW	·00	20	29·919	61·0	41·0	N	·00	20	29·605	67·0	54·0	SW	·15
21	30·252	67·0	46·0	W	·00	21	29·794	60·5	46·0	SW	·02	21	29·605	62·0	50·0	NW	·83
22	30·160	44·0	42·0	ENE	·00	22	29·368	62·0	51·0	SW	·08	22	29·656	63·0	52·0	NW	·08
23	30·236	47·0	43·0	SE	·00	23	29·365	63·0	48·0	SW	·00	23	29·728	62·0	48·0	NNE	·17
24	30·013	48·0	42·0	SE	·07	24	29·557	56·0	46·0	SW	·01	24	29·814	62·0	47·0	E	1·02
25	30·076	46·0	39·0	NE	·00	25	29·905	56·0	44·0	NNE	·01	25	29·483	55·0	52·0	NE	·20
26	30·117	53·0	30·0	WNW	·00	26	30·142	64·0	40·0	NE	·00	26	29·775	60·0	50·0	N	·00
27	29·984	50·0	40·0	NNE	·00	27	30·069	68·0	48·0	SW	·01	27	29·933	59·0	50·0	NNE	·00
28	30·005	56·0	35·0	W	·00	28	29·963	61·0	52·0	SW	·00	28	29·953	61·0	52·0	ENE	·03
29	29·607	60·0	44·0	WNW	·01	29	30·174	58·0	47·0	WNW	·00	29	29·845	64·0	52·0	SW	·06
30	29·652	50·0	40·0	ESE	·00	30	30·407	52·0	46·0	NNE	·02	30	29·525	66·0	54·0	SW	·08
						31	30·290	49·5	45·0	NE	·00						
Mean Height of Barometer in Month, 29·808. Adopted Mean Temperature, 46·2 Rainfall, ·81 in.						Mean Height of Barometer in Month, 29·880. Adopted Mean Temperature, 51·2. Rainfall, 1·11 in.						Mean Height of Barometer in Month, 29·838. Adopted Mean Temperature, 54·8. Rainfall, 3·07 in.					

TABLE IX.—CONTINUED.

Meteorological Observations from July to September, 1900.

JULY.						AUGUST.						SEPTEMBER.					
Date.	Barometer.	Thermo- meter.		Direction of Wind.	Rainfall.	Date.	Barometer.	Thermo- meter.		Direction of Wind.	Rainfall.	Date.	Barometer.	Thermo- meter.		Direction of Wind.	Rainfall.
		Highest	Lowest					Highest	Lowest					Highest	Lowest		
1	29.350	63.0	58.0	W	.08	1	29.632	69.5	57.0	SW	.04	1	29.928	66.0	54.0	W	.00
2	29.490	63.0	52.0	W	.36	2	29.436	67.0	53.0	W	.09	2	29.928	58.0	48.0	NW	.00
3	29.627	60.0	52.0	NW	.04	3	29.403	57.0	54.0	E	2.28	3	30.359	63.0	43.0	W	.00
4	30.042	63.0	49.0	NNE	.08	4	29.429	60.0	49.0	N	.00	4	30.388	62.0	47.0	WNW	.00
5	29.812	67.0	51.0	W	.02	5	29.632	60.0	45.0	SW	.00	5	30.146	64.0	50.0	WNW	.00
6	29.760	62.0	51.0	NW	.04	6	29.550	58.0	47.0	SE	.47	6	30.084	69.0	54.0	WNW	.04
7	30.078	57.0	46.0	NW	.00	7	29.202	60.0	52.0	N	.11	7	29.991	56.0	52.0	W	.29
8	30.154	61.0	43.0	ENE	.00	8	29.781	56.0	50.0	N	.02	8	29.919	60.0	52.0	S	.00
9	30.063	67.0	52.0	WNW	.25	9	29.806	57.0	42.0	SSE	.23	9	29.916	63.0	50.0	SW	.01
10	29.950	78.0	50.0	SW	.00	10	29.871	62.0	50.0	NNE	.00	10	29.934	65.0	50.0	SW	.00
11	29.840	78.0	55.0	WSW	.00	11	30.195	67.0	52.0	W	.20	11	30.357	61.0	48.0	NW	.00
12	29.716	70.0	59.0	SE	.01	12	30.015	74.0	54.0	W	.02	12	30.427	58.0	47.0	W	.00
13	29.731	65.0	58.0	WNW	.01	13	30.260	72.0	52.0	W	.00	13	29.427	64.0	44.0	E	.00
14	29.745	70.0	55.0	SW	.00	14	30.286	65.0	57.0	N	.01	14	30.367	70.0	48.0	WSW	.00
15	30.101	71.0	53.0	W	.00	15	30.291	62.0	49.0	ESE	.00	15	30.081	61.0	49.0	SW	.00
16	29.961	72.0	55.0	SE	.20	16	30.164	61.0	50.0	SSW	.00	16	30.081	69.0	51.0	SW	.01
17	30.114	72.0	57.0	WNW	.00	17	30.024	61.0	52.0	SE	.06	17	30.037	64.0	51.0	SSW	.00
18	30.090	77.0	54.0	W	.00	18	29.950	62.0	55.0	NW	.00	18	29.816	68.0	51.0	S	.06
19	29.990	73.0	56.0	W	.00	19	29.949	60.0	55.0	NE	.47	19	30.003	63.0	45.0	W	.00
20	30.090	66.0	60.0	ESE	.00	20	29.734	62.0	56.0	NE	.00	20	30.192	64.0	46.0	SW	.06
21	30.033	66.0	57.0	ENE	.00	21	29.556	61.0	53.0	N	.08	21	30.138	67.0	54.0	W	.06
22	not taken	69.0	57.0	N	.00	22	29.218	60.0	56.0	SE	.60	22	30.033	64.0	56.0	W	.06
23	30.007	77.0	55.0	W	.00	23	29.449	65.0	48.0	SSW	.22	23	29.980	69.0	53.0	SW	.02
24	29.881	77.0	65.0	WNW	.00	24	29.647	62.0	50.0	E	.01	24	29.453	62.0	58.0	W	.00
25	29.823	77.0	62.0	W	.06	25	29.994	59.0	55.0	NNE	.01	25	29.782	59.0	42.0	W	.01
26	29.939	70.0	56.0	WNW	.00	26	30.134	58.0	46.0	NE	.00	26	29.872	60.0	45.0	NW	.16
27	30.008	68.0	57.0	N	.35	27	30.102	57.0	51.0	NE	.00	27	29.316	61.0	49.0	W	.00
28	29.722	69.0	58.0	E	.44	28	30.274	59.0	53.0	NE	.10	28	29.507	58.0	47.0	NW	.00
29	29.617	72.0	55.0	SW	.02	29	30.356	57.0	49.0	N	.00	29	29.710	62.0	48.0	SW	.01
30	29.605	66.0	55.0	WNW	.00	30	30.329	64.0	47.0	NE	.00	30	29.483	57.0	53.0	SW	.03
31	29.904	71.0	55.0	NW	.00	31	30.078	64.0	53.0	SW	.10						

Mean Height of Barometer in
Month, 29.874.
Adopted Mean Temperature, 61.8.
Rainfall, 1.96 in.

Mean Height of Barometer in
Month, 29.863.
Adopted Mean Temperature, 57.6.
Rainfall, 4.72 in.

Mean Height of Barometer in
Month, 29.988.
Adopted Mean Temperature, 56.2.
Rainfall, .70 in.

TABLE IX.—CONTINUED.

Meteorological Observations from October to December, 1900.

OCTOBER.						NOVEMBER.						DECEMBER.					
Date.	Barometer.	Thermo- meter.		Direction of Wind.	Rainfall.	Date.	Barometer.	Thermo- meter.		Direction of Wind.	Rainfall.	Date.	Barometer.	Thermo- meter.		Direction of Wind.	Rainfall.
		Highest	Lowest					Highest	Lowest					Highest	Lowest		
1	29·699	59·0	49·0	SW	·02	1	29·897	58·0	48·0	SSW	·00	1	29·734	46·0	43·0	E	·12
2	29·656	61·0	50·0	SSW	·19	2	30·108	53·0	48·0	W	·00	2	29·777	45·0	42·0	SSE	·00
3	29·736	52·0	42·0	W	·01	3	30·149	52·0	50·0	SW	·54	3	29·695	44·0	39·0	SSW	·47
4	29·800	54·0	34·0	SE	·57	4	29·887	49·0	48·0	SSE	·03	4	29·341	46·0	40·0	WNW	·01
5	29·474	51·0	46·0	SW	·03	5	29·770	51·0	41·0	SW	·04	5	29·423	48·0	42·0	WSW	·15
6	29·661	61·0	44·0	SW	·60	6	29·515	51·0	44·0	SSE	·14	6	29·386	47·0	45·0	W	·05
7	29·897	64·0	50·0	WSW	·00	7	29·242	52·0	49·0	SE	·19	7	29·867	48·0	42·0	SE	·00
8	29·979	68·0	53·0	S	·11	8	29·604	51·0	40·0	SW	·01	8	29·822	51·0	40·0	ESW	·00
9	29·975	56·0	53·0	WSW	1·28	9	29·351	48·0	41·0	W	·00	9	29·732	50·0	47·0	SW	·00
10	29·962	51·0	47·0	N	·03	10	29·410	45·0	36·0	WSW	·00	10	30·130	50·0	39·0	SW	·00
11	30·041	54·0	40·0	SW	·00	11	29·777	44·0	34·0	WNW	·00	11	29·504	56·0	42·0	W	·00
12	29·879	54·0	41·0	W	·01	12	29·696	50·0	36·0	S	·19	12	29·778	55·0	49·0	SW	·00
13	29·451	56·0	46·0	WSW	·05	13	29·366	54·0	39·0	WSW	·01	13	29·690	50·0	47·0	SW	·00
14	29·463	46·0	37·0	NW	·00	14	29·532	47·0	39·0	WSW	·07	14	29·942	53·0	43·0	WSW	·00
15	29·591	51·0	38·0	WNW	·00	15	29·177	47·0	37·0	SSE	·06	15	29·732	52·0	48·0	WSW	·00
16	29·834	50·0	53·0	W	·23	16	29·100	47·0	39·0	E	·16	16	30·150	49·0	44·0	WSW	·00
17	29·668	53·0	42·0	SSE	·06	17	29·859	46·0	37·0	NNE	·03	17	30·051	51·0	44·0	WSW	·00
18	29·781	52·0	46·0	N	·01	18	30·334	46·0	42·0	NE	·00	18	29·758	46·0	41·0	NW	·00
19	30·226	51·0	45·0	NNW	·17	19	30·400	43·0	33·0	NE	·00	19	29·924	51·0	35·0	WSW	·00
20	30·166	48·0	42·0	NW	·13	20	30·194	45·0	36·0	ENE	·10	20	29·357	59·0	38·0	SW	·02
21	30·277	49·0	39·0	N	·00	21	29·847	46·0	41·0	ENE	·16	21	29·190	45·0	41·0	W	·00
22	30·445	54·0	37·0	WNW	·00	22	29·640	45·0	42·0	NW	·16	22	29·833	44·0	37·0	WSW	·00
23	30·233	57·0	45·0	W	·00	23	29·554	44·0	42·0	W	·09	23	29·840	42·0	34·0	SW	·00
24	30·094	63·0	52·0	WNW	·00	24	29·628	45·0	36·0	WSW	·05	24	29·879	54·0	34·0	WSW	·00
25	29·542	53·0	49·0	WNW	·14	25	29·397	47·0	36·0	SE	·22	25	29·683	56·0	37·0	SW	·00
26	29·175	44·0	38·0	WSW	3·37	26	29·538	46·0	44·0	SE	·13	26	29·592	48·0	42·0	SW	·05
27	29·154	47·0	32·0	NNW	·07	27	29·354	47·0	41·0	W	·00	27	29·438	45·0	39·0	ESE	·18
28	29·599	47·0	36·0	WNW	·20	28	29·323	47·0	36·0	E	·22	28	28·583	46·0	38·0	S	·29
29	29·454	48·0	38·0	W	·00	29	29·403	47·0	45·0	E	·00	29	29·453	41·0	37·0	WNW	·09
30	29·686	52·0	38·0	W	·01	30	29·677	46·0	45·0	E	·08	30	29·410	44·0	31·0	SW	·57
31	29·864	55·0	39·0	SE	·03							31	29·712	42·0	39·0	ENE	·06
Mean Height of Barometer in Month, 29·789. Adopted Mean Temperature, 43·5. Rainfall, 7·32 in.						Mean Height of Barometer in Month, 29·650. Adopted Mean Temperature, 44·4. Rainfall, 2·68 in.						Mean Height of Barometer in Month, 29·677. Adopted Mean Temperature, 44·5. Rainfall, 1·45 in.					

LOCAL GOVERNMENT BOARD TABLE I.

Showing the Population, Births, and Deaths for the whole of the Borough
for the year 1900 and 10 years preceding.

Year.	Population estimated to Middle of each Year.	Births.		Deaths under 1 year of age		Deaths at all ages. Total.		Deaths in Public Institutions.	Deaths of Non- residents registered in District.	Deaths of Residents registered beyond District.	Deaths at all ages. Nett.	
		Number.	Rate.*	Number.	Rate per 1000 Births registered.	Number.	Rate.*				Number.	Rate.*
1		3	4	5	6	7	8	9	10	11	12	13
1890	129769	4932	37.3	865	275	3140	23.7	292	...	...	...	...
1891	131302	4945	37.6	881	269	3273	24.9	285	...	...	...	...
1892	132839	4909	36.9	781	281	2774	20.9	257	...	...	...	...
1893	134515	4770	35.5	904	299	3023	22.5	310	...	...	...	...
1894	136101	4760	34.9	804	285	2815	20.7	272	...	...	...	...
1895	137705	4819	32.1	925	312	2990	21.7	356	...	...	...	...
1896	140386	4873	34.0	786	282	2784	19.4	322	...	...	...	...
1897	142107	4905	34.5	822	296	2777	19.5	313	...	...	...	...
1898	143849	5077	35.3	1027	317	3236	22.5	377	...	...	...	...
1899	145613	5184	35.6	913	293	3113	21.4	462	...	...	...	...
Averages for years 1890-99	137418	4917	35.4	871	291	2992	21.7	325	...	...	...	...
1900	147398	5256	35.6	889	282	3147	21.3	405	...	...	...	...

* Rates calculated per 1,000 of estimated population.

NOTE.—The Deaths to be included in Column 7 of this table are the whole of those registered during the year as having actually occurred within the district or division. The Deaths to be included in Column 12 are the number in Column 7, corrected by the subtraction of the number in Column 10 and the addition of the number in Column 11.

By the term "Non-residents" is meant persons brought into the district on account of illness, and dying there; and by the term "Residents" is meant persons who have been taken out of the district on account of illness, and have died elsewhere.

Area of District in acres (exclusive of area covered by water), 2,963.
1896, extended to 3,396.

Total Population at all ages	131,386	} At Census of 1891.
Number of Inhabited Houses	18,705	
Average Number of Persons per House ...	7.04	

Showing the Population, Births, and Deaths for the Four Districts of the Borough for the year 1900 and 10 years preceding.

Year.	SUNDERLAND SUB.				BISHOPWEARMOUTH NORTH.				BISHOPWEARMOUTH SOUTH.				MONKWEARMOUTH.			
	Population esti- mated to middle of each year.	Births registered.	Deaths at all ages.	Deaths under 1 year.	Population esti- mated to middle of each year.	Births registered.	Deaths at all ages.	Deaths under 1 year.	Population esti- mated to middle of each year.	Births registered.	Deaths at all ages.	Deaths under 1 year.	Population esti- mated to middle of each year.	Births registered.	Deaths at all ages.	Deaths under 1 year.
	<i>a.</i>	<i>b.</i>	<i>c.</i>	<i>d.</i>	<i>a.</i>	<i>b.</i>	<i>c.</i>	<i>d.</i>	<i>a.</i>	<i>b.</i>	<i>c.</i>	<i>d.</i>	<i>a.</i>	<i>b.</i>	<i>c.</i>	<i>d.</i>
1890	14457	527	410	128	43409	1616	1098	290	46975	1566	924	241	31665	1223	708	206
1891	14505	511	475	130	40927	1649	1179	313	46566	1576	956	240	29309	1209	663	198
1892	14431	565	413	120	41467	1656	884	262	47372	1482	821	196	29691	1206	656	203
1893	14389	564	459	115	42242	1592	952	300	48191	1418	894	239	29779	1196	718	250
1894	14283	533	449	127	42797	1623	892	252	49025	1480	856	236	30099	1124	618	189
1895	14210	557	438	116	43360	1617	958	311	49874	1484	904	258	30424	1161	690	240
1896	14138	551	467	117	44751	1695	908	257	50737	1461	810	213	30900	1166	599	199
1897	14065	561	418	110	45338	1731	930	285	51615	1487	806	231	31236	1126	623	196
1898	13993	573	549	152	46027	1843	981	316	52508	1447	937	288	31576	1214	769	271
1899	13931	587	526	143	46678	1917	1075	318	53417	1531	831	224	31920	1149	691	228
Averages of Years 1890 to 1899	14240	553	460	126	43704	1694	985	291	49628	1493	874	236	30660	1177	673	218
1900	13811	677	566	167	47207	1804	1004	256	54192	1525	920	253	32188	1250	658	213

LOCAL GOVERNMENT BOARD TABLE III.

Showing the Cases of Infectious Disease notified during the Year 1901.

NOTIFIABLE DISEASE.	CASES NOTIFIED IN WHOLE DISTRICT.						TOTAL CASES NOTIFIED IN EACH LOCALITY.					NO. OF GASES REMOVED TO HOSPITAL FROM EACH LOCALITY.			
	At all Ages.	At Ages—Years.					Sunderland Sub-District.	Bishopwearmouth North.	Bishopwearmouth South.	Monkwearmouth.	Sunderland Sub-District.	Bishopwearmouth North.	Bishopwearmouth South.	Monkwearmouth.	
		Under 1.	1 to 3.	3 to 15.	15 to 25.	25 to 65.									65 and upwards.
Small-pox	2	...	...	...	2	...	1	...	...	1	...	...	...	1
Cholera .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Diphtheria... ..	33	14	12	4	3	...	2	18	6	7	...	...	...	...
Membranous croup	17	10	4	...	...	...	5	4	5	3	...	...	...	...
Erysipelas	62	2	9	6	34	7	13	20	23	6	...	...	...	...
Scarlet fever	754	248	409	52	25	...	124	279	239	112	...	...	...	31
Typhus fever .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Enteric fever	301	16	99	96	90	...	52	109	95	45	...	...	...	29
Relapsing fever .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Continued fever	32	2	10	10	9	1	2	23	1	6	...	...	...	5
Puerperal fever	5	...	...	...	5	...	2	1	1	1	...	...	...	...
Plague .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	1206	292	543	168	168	8	201	444	370	181	81	155	134	66	

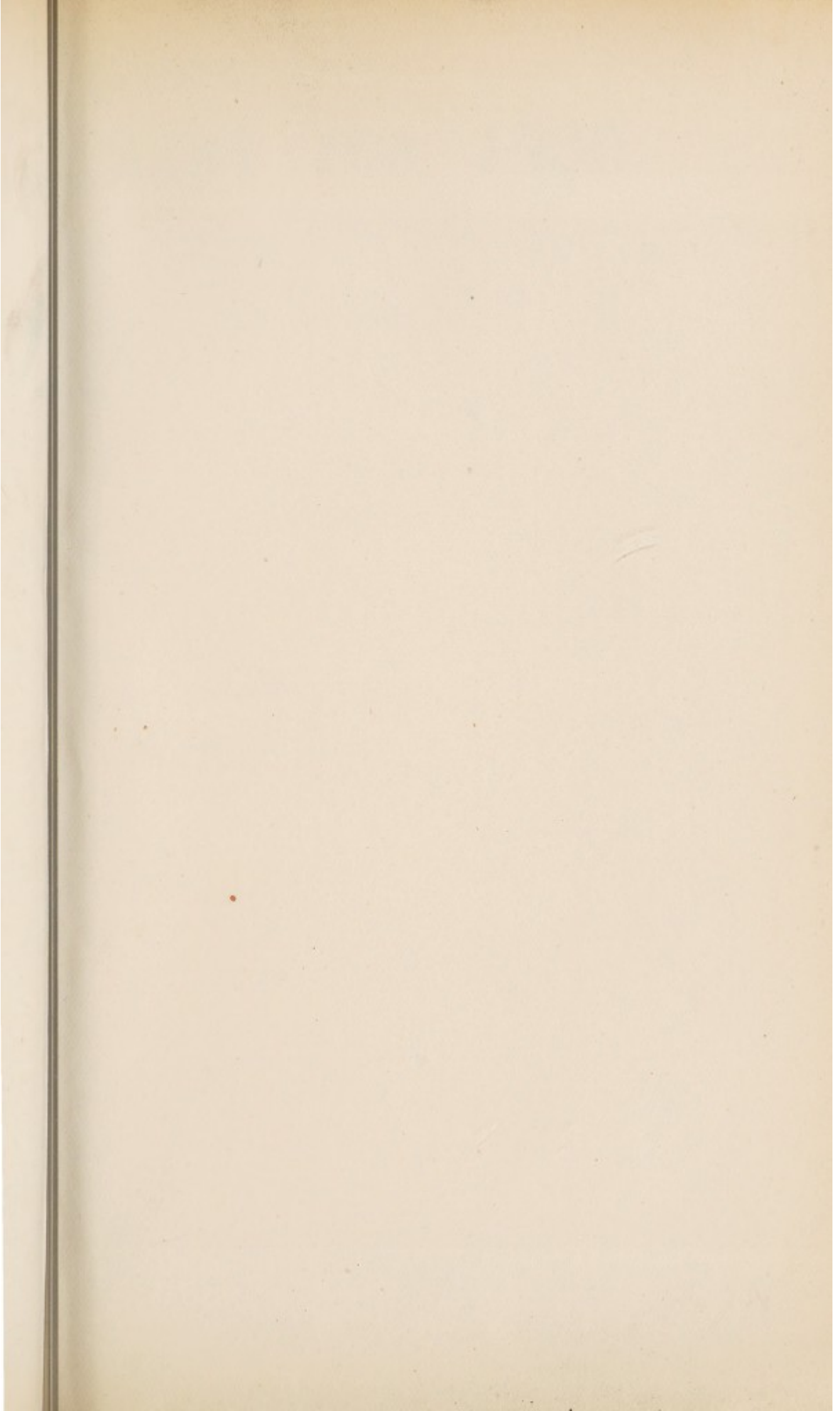
LOCAL GOVERNMENT BOARD TABLE IV.

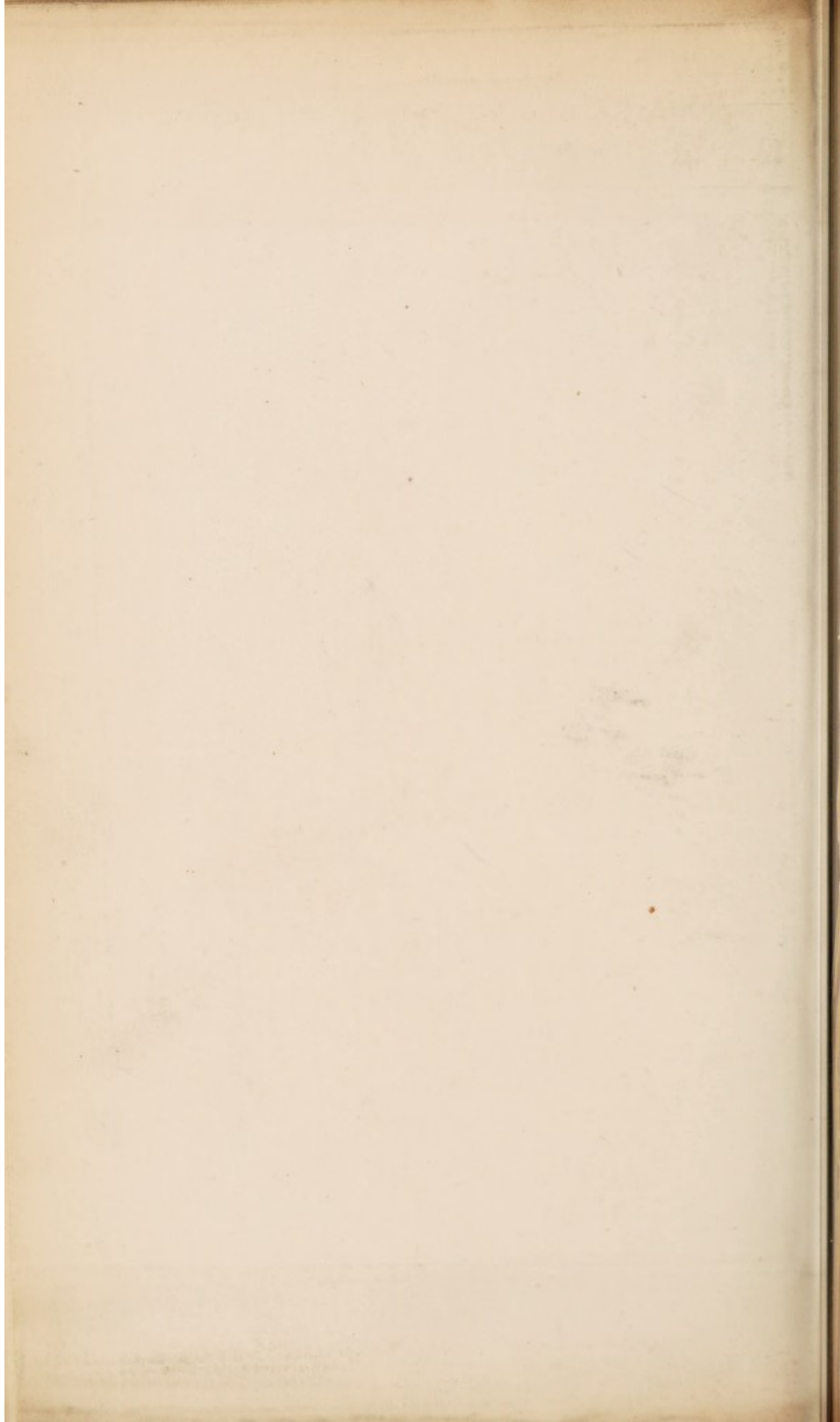
Showing Causes of and Ages at Death during Year 1900.

Causes of Death.	Deaths in whole District at Subjoined Ages.							Deaths in Localities (at all ages).				Deaths in Public Institutions.	
	All Ages.	Under 1.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and upwards.	Sunderland Sub District.	Bishopwearmouth North.	Bishopwearmouth South.	Monkwearmouth		
Smallpox													
Measles	87	22	61	4				26	22	26	13		
Scarlet Fever	39	4	21	11	2	1		14	12	8	5	13	
Whooping Cough	30	9	21					4	14	9	3		
Diphtheria and Membranous Croup	22	4	12	6				3	9	7	3		
Croup	8							2		3	3	1	
Fever— { Typhus { Enteric	56	1	2	8	23	22		7	26	16	7	30	
{ Other continued													
Epidemic Influenza	41	2	2	3		18	16	5	10	19	7	1	
Cholera													
Plague													
Diarrhoea	150	100	33	2	1	11	3	20	61	40	29		
Enteritis	51	36	10		1	2	2	2	17	9	23		
Puerperal Fever	2					2		1	1				
Erysipelas	9	4	1			2	2	1	5	1	2	2	
Other Septic Diseases	2			1			1		1		1		
Phthisis	222	1	10	19	37	149	6	43	81	61	37	51	
Other Tubercular Diseases	51	4	17	8	7	15		5	13	13	20	5	
Cancer, Malignant Disease	107				1	79	27	18	37	30	22	21	
Bronchitis	401	136	64	5	2	94	100	117	108	131	45	34	
Pneumonia	154	28	27	10	11	61	17	23	53	51	27	28	
Pleurisy	5					3	2	1	2	1	1		
Other Diseases of Respiratory Organs	133	37	60	7		19	10	27	45	20	37	5	
Alcoholism—Cirrhosis of Liver	30				1	25	4	5	12	7	6	2	
Venereal Diseases	13	13						7	1	3	2	2	
Premature Birth	97	97						12	38	22	35		
Diseases and Accidents of Parturition	16				3	13		1	5	8	2		
Heart Diseases	234	6		11	9	140	68	35	77	67	55	41	
Accidents	93	23	7	5	8	43	7	22	30	20	21	27	
Suicides	9					9		3	1	2	3		
All other causes	1095	362	140	42	32	238	279	162	321	347	249	142	
All causes	3147	889	488	142	138	946	544	566	1002	921	658	405	

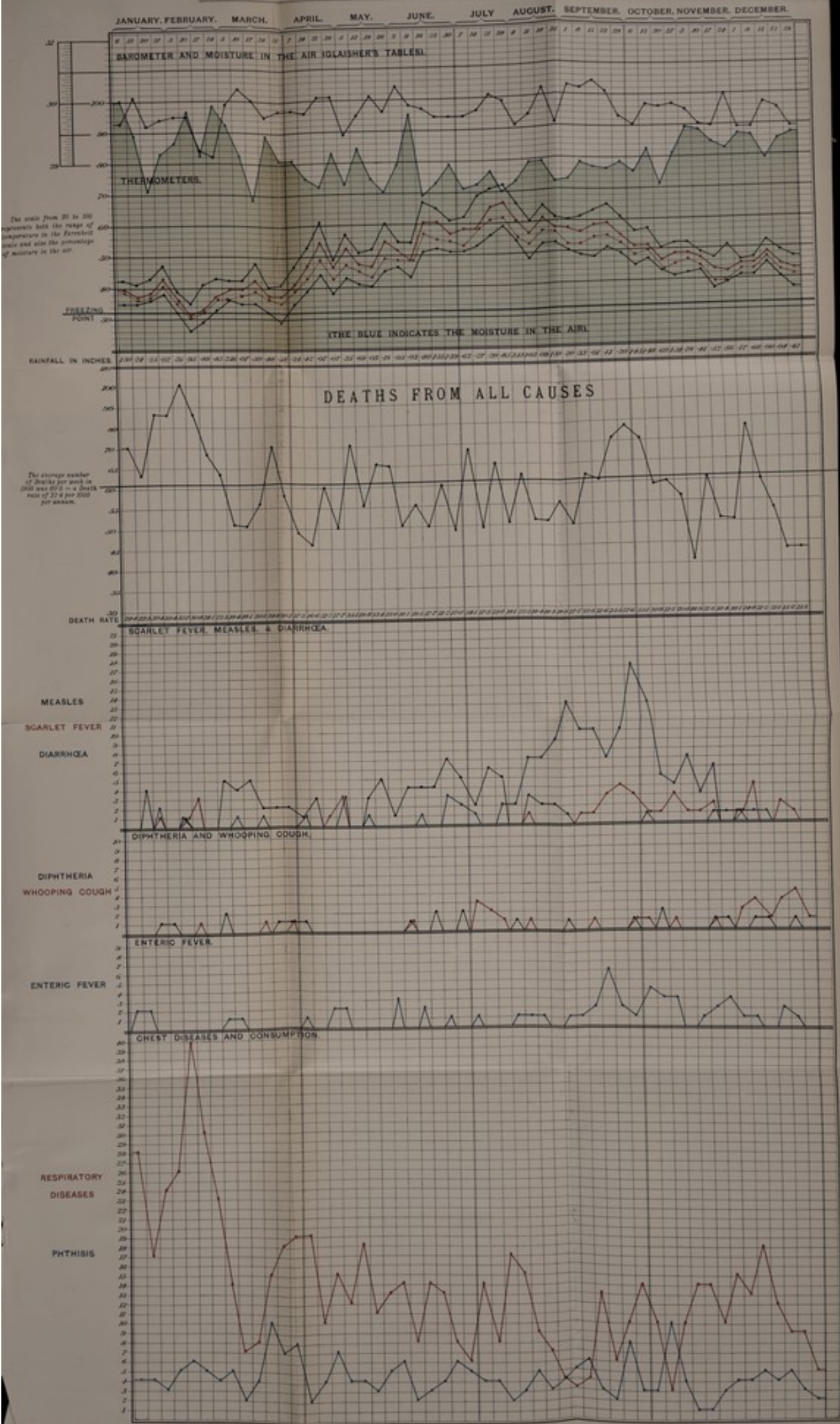
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A. A.





METEOROLOGICAL AND DISEASE CHART FOR 1900.



PLAN OF THE BOROUGH OF SUNDERLAND

The dotted lines show the divisions of the Borough into Registration Sub-Districts, whose names are indicated as follows:—
S.D.—Sunderland; **B.N.**—Bishopwearmouth North; **B.S.**—Bishopwearmouth South; and **M.K.**—Monkwearmouth.

Showing the deaths from Diarrhoea and Consumption, and the cases of Enteric and Continued Fevers notified during the year 1900.

Sunderland Sub-District	ESTIMATED POPULATION.
Bishopwearmouth, North District	13,811
Do. South District	47,207
Monkwearmouth District	54,192
Whole Borough	92,188
	147,398

Cases of Enteric and Continued Fevers in **BLACK**.
 Deaths from Diarrhoea in **GREEN**.
 Deaths from Consumption in **RED**.

REFERENCE.

The back ground colors show the soil-out in the different portions of the town:—
BLUE indicates districts where the Magnesian Limestone comes to the surface, or near to the surface.
THE UNCOLOURED PORTION indicates areas where the surface is covered by Boulder Clay. In many places the Boulder Clay contains pockets of sand and abundance of sand. Where this has been found to be the case, the uncoloured portion is marked with Brown Dots.
BROWN indicates areas where deposits of sand and gravel on the Boulder Clay have occurred naturally.
YELLOW indicates areas where slight hollow has been tipped on top of the clay.
GREEN indicates made ground. These areas are valleys, low lying ground, quarries, and clay pits filled up with various kinds of tipped soil.



Scale of One Inch to One Mile

