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Contributors

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Pemberton Urban District Council.

Medical Officers' Annual Report,

FEBRUARY, 1903.

To the Chairman and Members of the Sanitary and Sewerage Committee.

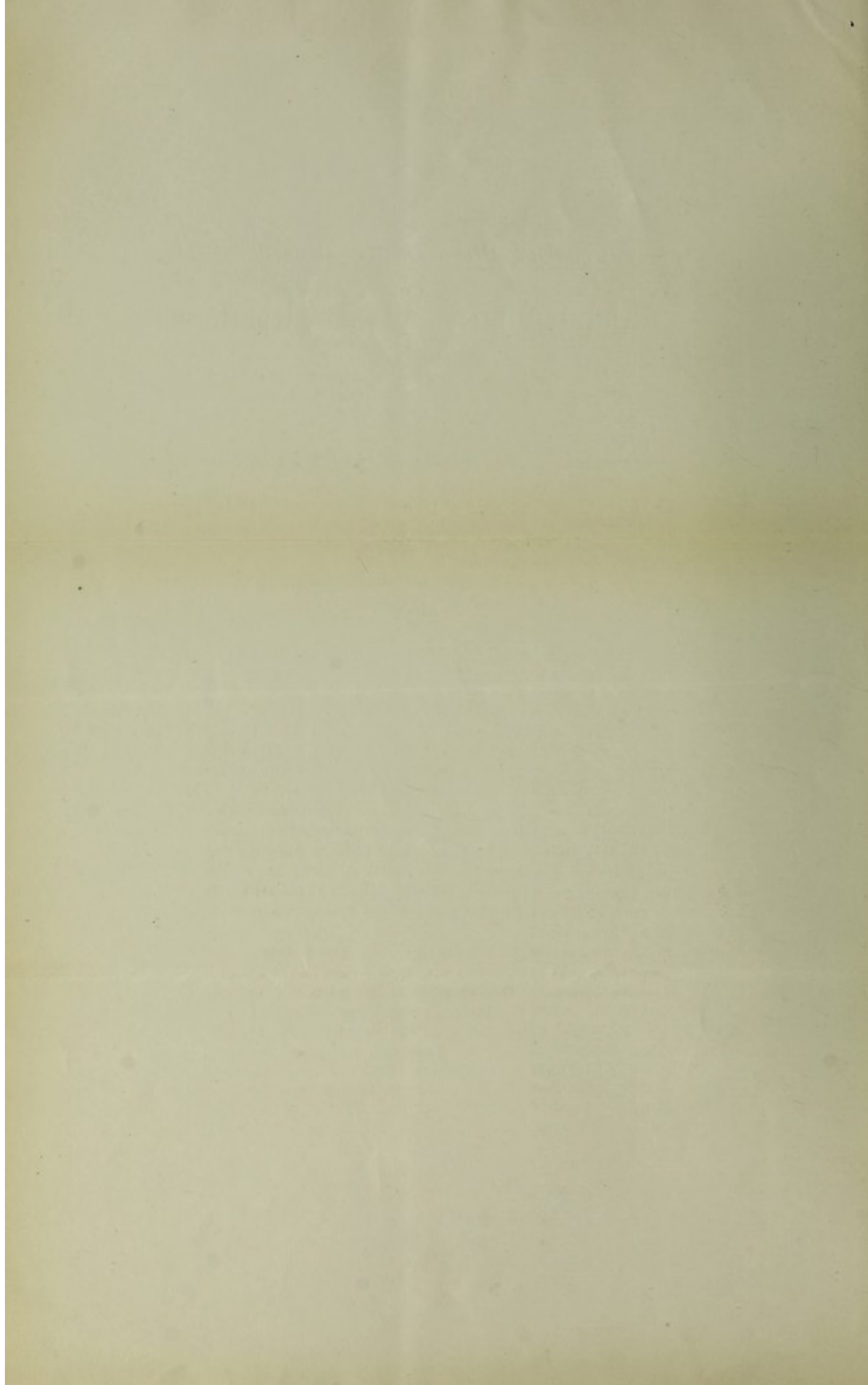
GENTLEMEN,

I beg to present my Twenty-Ninth Annual Report on the sanitary condition of the Pemberton Urban District for the year ending December 31st, 1902, together with tables of vital statistics for the year and for ten previous years, and tables shewing causes of, and ages at, death during year 1902, and cases of infectious disease notified during the year; (Table C) a summary of Medical Officer's Report and a table of the rainfall observed at the (District Council's) Waterworks at Bispham, situate about two miles from the Council Offices.

The population is estimated at 22,071.

The births registered during the year total 866, one less than for the year before, and 3 less than the year 1900. Of this number 466 were males, and 400 females. The births exceeded the deaths by 485. The birth-rate is 39.2, slightly below the average for the two preceding years, and 1.87 below that for ten years. The births registered during the first quarter were 104 males and 115 females; during the second 118 and 105; during the third 116 and 89; during the fourth 128 and 91. The deaths registered, 209 males and 172 females; total, 381; the same as for the year 1895, and lower than any of the years following, and yielding a rate of 17.2, being 1.7 less than the preceding year, and 2.7 less than the average for the decennial period, and .9 lower than (for 1897, which was) the lowest. The deaths during the first quarter were 46 males and 39 females; during the second, 54 and 47; during the third, 50 and 41; during the 4th, 59 and 45 respectively; totals, 209 and 172.

Death under six months.	Under one year.	Under two years.
1st quarter, 24	1st quarter, 31	1st quarter, 40
2nd " 24	2nd " 35	2nd " 44
3rd " 26	3rd " 42	3rd " 57
4th " 38	4th " 52	4th " 63
Total ... 112	161	202



Under five years.	Over five years.
1st quarter, 52	... 33
2nd " 47	... 54
3rd " 61	... 30
4th " 69	... 35
Total ... 229	152

The death-rate from the seven principal zymotic diseases per 1,000 of the population is 2.5; ten years, 2.75; excluding diarrhoea, is .09.

The following is the order of prevalence:—Enteric-fever, 82 notified and 3 deaths, = 1.27; scarlet fever, 78.5 deaths, 1.25; diarrhoea, 34 deaths; diphtheria, 20 and 3 deaths; membranous croup, 1 death; Puerperal, 3 and 2 deaths.

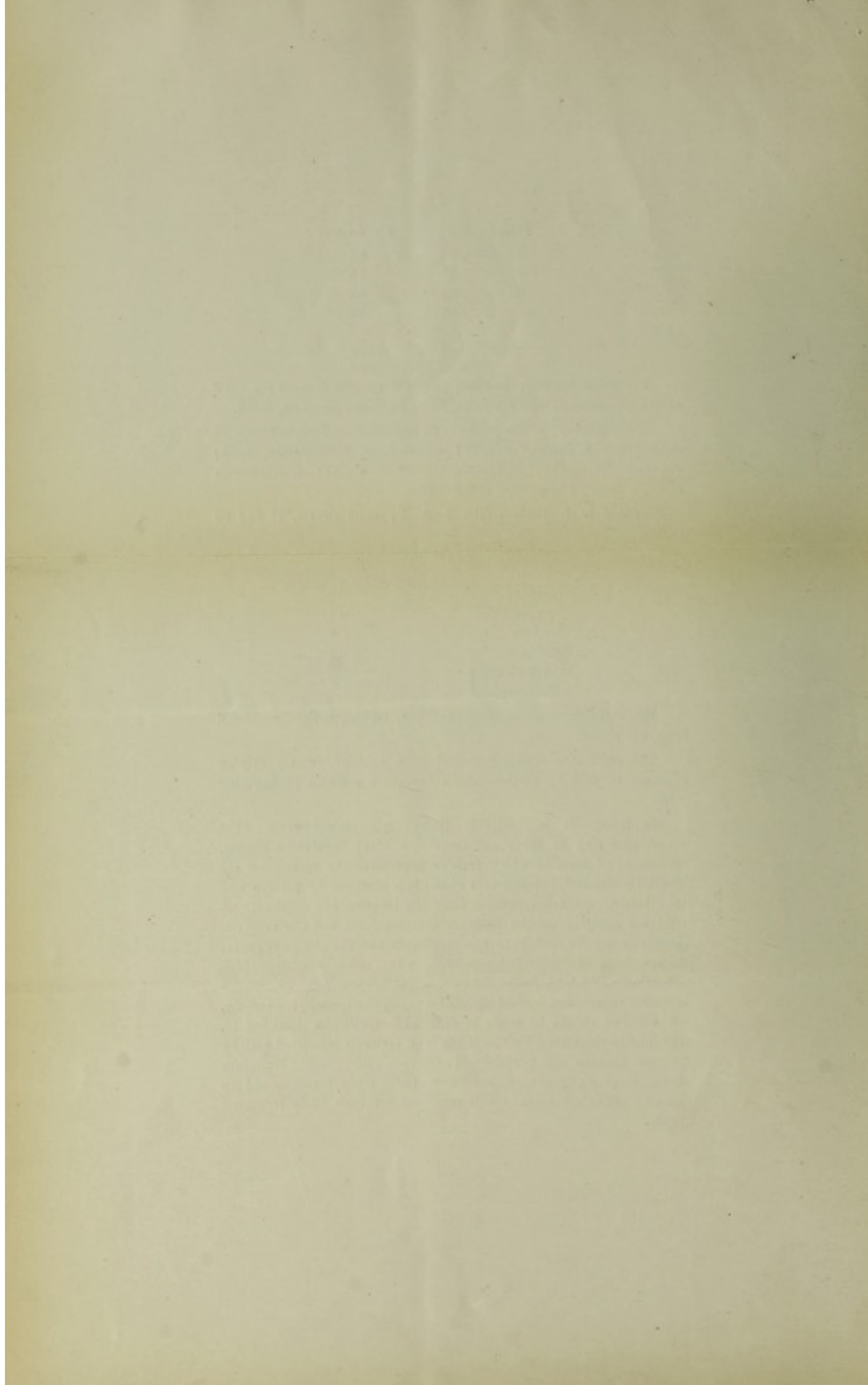
Treated in hospital—scarlet fever, 2; enteric fever, 17 and no deaths.

Scarlet fever, rate per 1,000	... 2.2
Measles, "4
Whooping-cough "18
Fever (enteric) "13
Diarrhoea "	... 1.5
Phthisis "5
Bronchitis and } Pneumonia }	... 3.2

No deaths are recorded from small-pox, typhus, cholera, continued fever, nor plague.

The death-rate among young children is high, in my opinion exposure to cold by mothers and others is a common predisposing cause.

Small-pox.—It is desirable that people should know what precautions may be taken against this virulent contagious disease, common at all ages, to which persons unprotected by vaccination are invariably attacked, rich and poor alike; it is conveyed by persons who have been in contact, especially after the eruption has appeared. A mild case may transmit the disease in a severe form, and vice versa; it spreads among the slightly or non-vaccinated like fire along dry grass; the symptoms are frontal headache, lumbar pains, vomiting, high temperature, quick pulse, flushed face, bright eye and rash of a measles or scarlet appearance. There should be prompt isolation. No visiting. All windows should be made to open and ventilation attended to, especially in those houses where it has been seriously interfered with by covering between the pantries or sculleries with glass. Nuisances should be promptly abated, and extra efforts made generally to keep clean, as districts habitually well cared for are least likely to spread disease.



Scarlet Fever.—Many cases are notified, yet there has been no epidemic of any magnitude, and very few deaths. A number of cases have been brought into the district from other places; in the neighbourhood of these caught the infection; few were isolated in hospital, owing in a great measure to parents preferring to nurse their children and keep them at home. There is not the same disposition with regard to enteric-fever, as those suffering are not usually of such tender years, therefore the greater number of cases treated in hospital are of this affection.

Measles, like scarlet fever, ranged over the year. Highfield was the only district free. The schools at Kitt Green were closed for a fortnight, chiefly owing to the disease being located in the adjoining district of Orrell. Deaths occurred in January, February, June, and August; in the West Ward during the 1st quarter, in the Central Ward during the 2nd quarter, in the East and North Wards during the 3rd quarter, and none in the 4th quarter.

Whooping-Cough caused 4 deaths under two years of age, in the West Ward in January. The cases were located in various parts of the district, and very few in number, compared with none for the preceding year.

Diphtheria.—20 cases and 3 deaths—1 in April and 1 in August. This disease is not common to the district.

Membranous Croup.—1 death at Newtown.

Erysipelas.—2 deaths in January and February.

Epidemic Influenza appeared in May, causing 1 death, and 1 in July, both in Central Ward.

Phthisis mostly hereditary, 4 dying at Goose Green during the last four months of the year.

Bronchitis and *Pneumonia* has been very slightly below the average of the two preceding years.

Sewers, owing to mining operations causing subsidence, have given considerable trouble. Some have been re-laid. Further ventilation of the same is required.

Excrement removal has been done as usual. I would advise and strongly urge your authority to devise a better system, so that the contents of ashpits may be emptied directly into the carts instead of on the yards.

Faint, illegible text, possibly bleed-through from the reverse side of the page. The text is arranged in several paragraphs and appears to be a formal document or report.

Many streets have been paved, and some back yards might be paved or flagged, especially around the gullies and ashpits, and, if owing to the expense falling heavily on property owners, some of whom have had to pay for front streets, a portion, say, a passage to the door, could be done each year, thus spreading the cost of the same over a few years.

There is still a continued improvement in the treatment of sewage at the farm, the effluent being generally satisfactory.

The water supply has been good in quality and quantity, and leakages immediately attended to.

I made a special report on enteric-fever in November, and one in October, 1900, for the same locality.

Cowsheds, dairies, slaughter-houses and bakehouses have been systematically inspected. The outcome of inspection is as follows, viz.: During the 1st quarter—

1st Quarter.

Premises at Goose Green and Newtown noticed during inspection with insufficient closet and ashpit accommodation, notices served and new conveniences erected. In one case W.C. being provided and yard re-arranged. Many other ashpits leaking, wet and dilapidated repaired, cemented, and rendered dry.

Several cases of defective drains found at Mitchell Street, Bentinck Street, Kitt Green and Marsh Green, allowing free escape of sewer gas or lodgment of sewage. Drains re-laid and gullies changed after owners had been notified. Many minor stoppages in house drains made good.

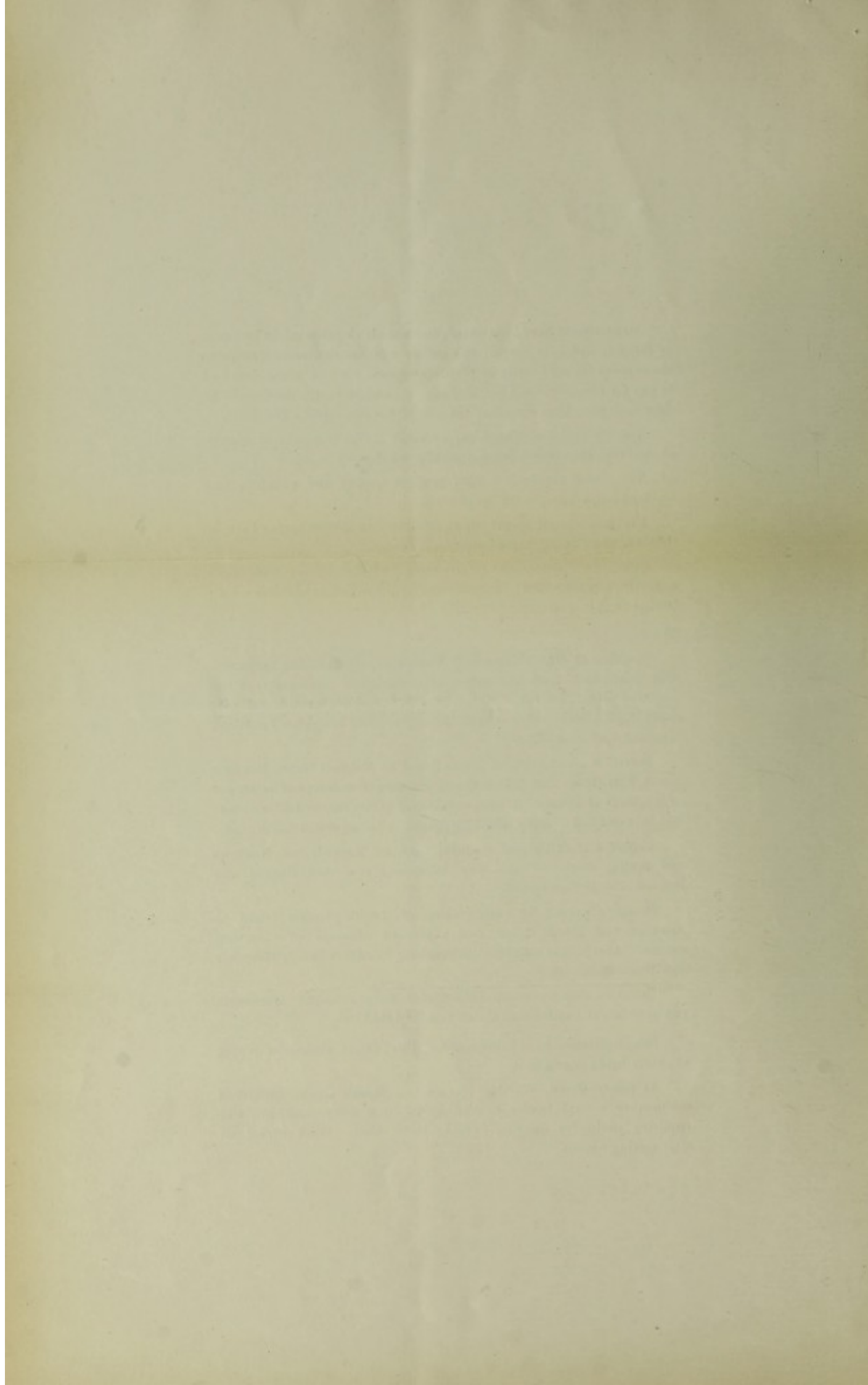
Cellars containing foul stagnant water at Marsh Green, Newtown and Spring Bank. Floors were afterwards concreted, flagged and drained after notices served.

Nuisances caused by overcrowding of dwelling-houses found at Newtown and Marsh Green, and abatement obtained after serving notices. Also houses requiring limewashing in Albert Street, Gibraltar and Wardley Streets.

Defective slop-pipes and bath-wastes badly arranged (afterwards put in order) at Lamberhead Green and Highfield.

Smoke nuisance from bakehouse in Albert Street abated on owners attention being drawn to it.

At Goose Green, Worsley Mesnes and Marsh Green, backyards common to several houses noticed to be in a dirty condition, and requiring paving or flagging to make them clean. Work carried out after serving notices.



Landowners permission obtained and back cartway opened out at Worsley Mesnes to avoid nuisance previously caused when ashpit excrement was emptied on to surface of yards.

2nd Quarter.

Farmhouse and outbuildings at Kitt Green found without proper drainage, and conditions otherwise insanitary. Reported and notices ordered to be served. New drains laid and premises cleansed. Ventilation, lighting and flooring to shippens improved.

At Newtown, Worsley Mesnes, Spring Bank, Goose Green and Lamberhead Green, many properties noticed with leaking and wet ashpits. These were made right and rendered dry by raising the bottoms and cementing and repairing the brickwork. Notices served. Closets and ashpits re-constructed at New Street.

Dirty houses limewashed at Newtown, Lamberhead Green and Worsley Mesnes, and many stoppages and other defects in house drains attended to.

New pipe drainage system with properly trapped gullies arranged at Gerard's Shunt Cottages, these previously having only a brick sough without traps, and sewage lodging in open ditch. Notice was served on owner.

Flooded cellar at Newtown relieved and cleaned, and drain put in order. Several cases of pigeons being kept in closets dealt with.

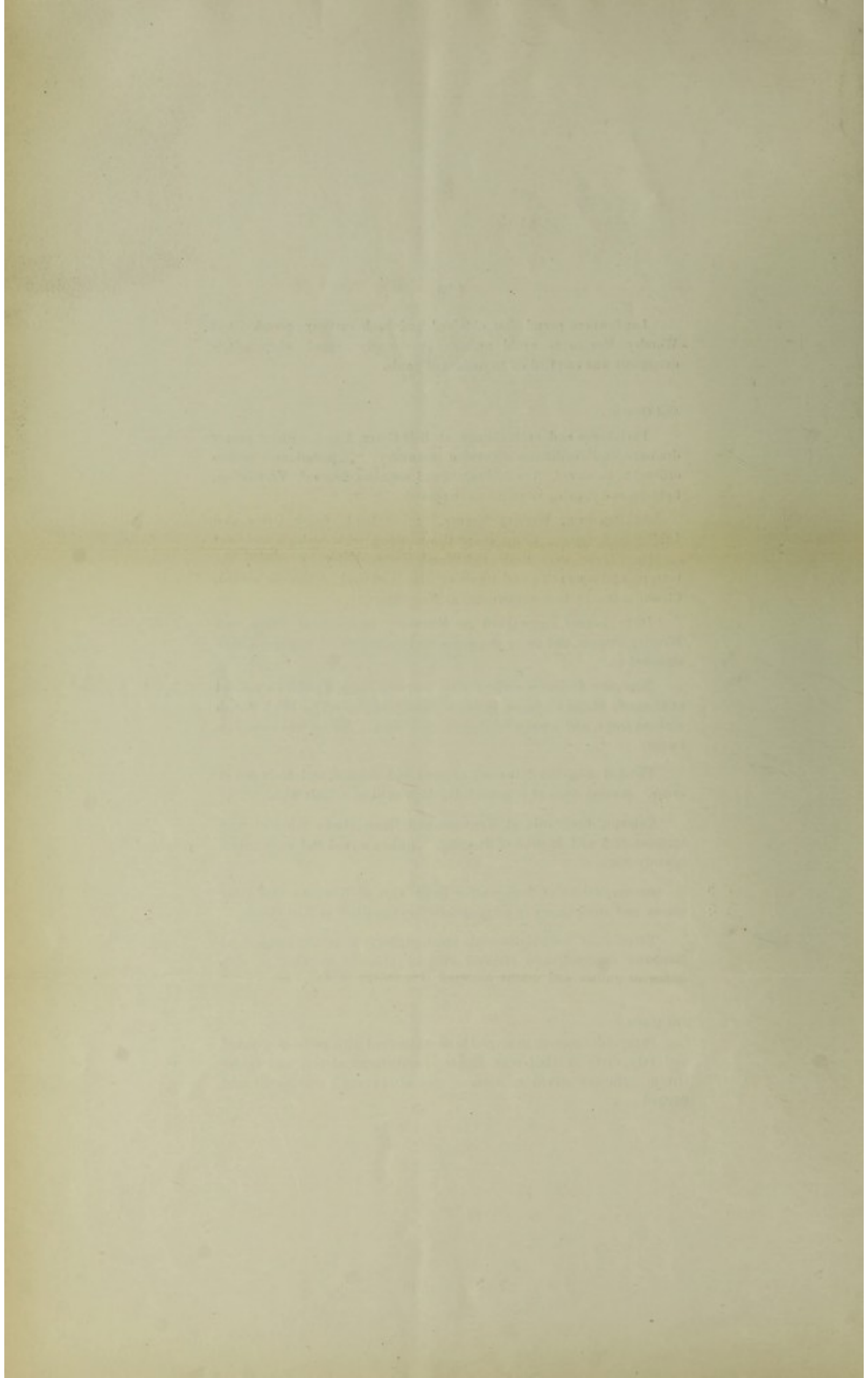
Common backyards at Newtown and Goose Green reported with surfaces foul and in need of flagging. Notices served and work subsequently done.

Accumulations of foul matter dealt with at Newtown and other places, and also piggery in an unsatisfactory condition at Kitt Green.

Erection of roughly-formed wood piggery close to highway at Newtown reported, and removal effected after communication with owner.

3rd Quarter.

Backyards common to several houses observed with surfaces unpaved and very dirty at Half-Way House, Lamberhead Green, and Goose Green. Notices served on owners, and afterwards yards paved and flagged.



Ashing of passages and about houses where water lodging carried out after owners' attention was drawn to the same.

Nuisance caused by stable erected in small house-yard at Worsley Mesnes, and pigeon and poultry-keeping in Newtown and Marsh Green. Notices served and abatement of nuisances obtained.

Inspections at Goose Green, Lamberhead Green, Spring Bank, and Newtown revealed ashpits and closets dilapidated, leaking, and wet. These were reconstructed, repaired, and made dry after owners were notified.

Fouling of foundations and dampness in walls caused by defective slop-pipes and downspouts found and remedied. Owners written to.

Visitation of houses disclosed overcrowding of dwelling-houses at Alfred Street, Wardley Street, and Marsh Green. Nuisances abated on notices being served.

4th Quarter.

Complaints of smells from sewer man-holes investigated and reported upon, resulting in additional ventilators being erected.

Properties examined and roofs found defective at Highfield and Lamberhead Green, and others at Newtown, Little Lane, and Goose Green, where living-rooms and bedrooms were found in a dirty condition. Roofs repaired and limewashing carried out after notices were served.

At Lamberhead Green, Newtown, and Goose Green, several cases of manure accumulation and many yards in a dirty condition dealt with.

Nuisances caused by leaking and wet ashpits found at Spring Bank, Enfield Street, Little Lane, and Newtown. Abatement obtained after notices were served and carried out.

Owners communicated with about the dilapidated condition of privies and ashpits at Spring Bank and Worsley Mesnes, which were subsequently taken down and rebuilt.

Many stoppages in house drains attended to. Untrapped and defective gullies and drains allowing free escape of sewer gas in each ward of the district put in order. Drains taken up and relaid throughout at Kitt Green and Lamberhead Green.

Testing of drains revealed in one case at Spring Bank the surface drain under the house running into old stone drain; this has since been connected to the main sewer.

1870

...

...

Owners communicated with *re* paving the surfaces of common back yards at Goose Green, and agreements entered into for carrying out the work.

Common yard flagged at Thwaites' Delf, and cellar re-drained and flagged at Highfield.

The number of house chimney flues swept during the year by the man specially retained by the Council for this work, is 572.

The ashpits emptied and cleaned during the year number 6,299, against 6,579 in 1901. In 1902, 11,067 loads were removed, and in 1901, 11,516 loads.

At the end of 1901 the district was thoroughly scavenged.

Three w.c.'s have been substituted for privies, 34 closets and 14 ashpits have been re-constructed, 35 wet ashpits raised and rendered dry, and 56 closets and ashpits repaired, cemented, or roofed when found leaking or dilapidated.

Every encouragement has again been given to the people to use disinfectants in and about their houses. Carbolic and powder was freely supplied.

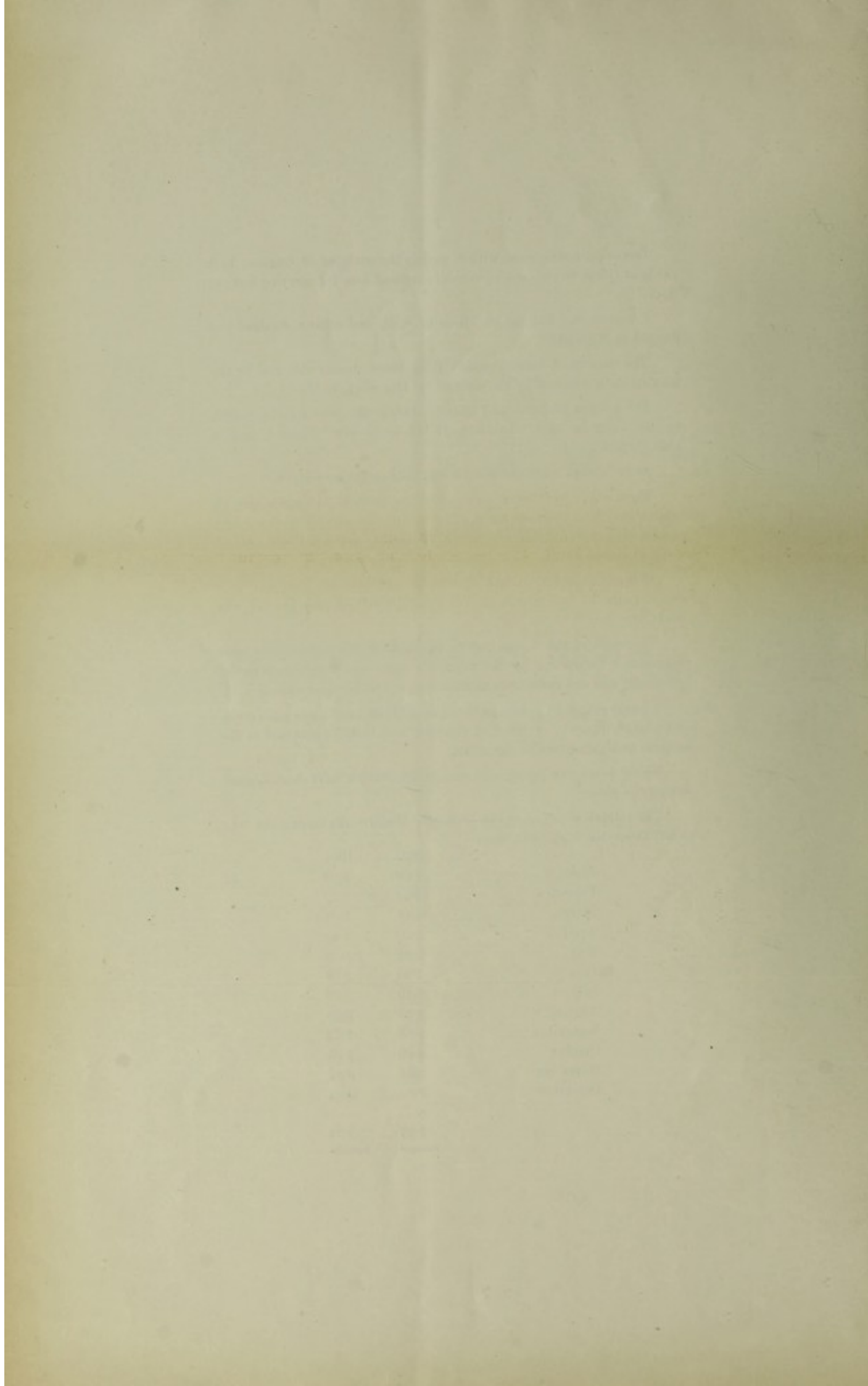
The whole of the house gullies throughout the district have been cleaned and disinfected by the Council's men, who have also removed 185 chaff beds and mattresses to the sewage farm for destruction.

Fumigation of 94 houses has been carried out in all cases after fever, and a large quantity of infected clothing and bedding removed to the hospital and disinfected in the stove.

Thirty-seven new houses and one police station have been erected during the year.

The rainfall recorded at the Council's Waterworks during the year ended December 31st, 1902, was:—

	1902.	1901.
January	2.99	2.66
February	1.51	1.29
March	2.15	1.94
April	2.20	2.42
May	3.87	1.19
June	1.90	2.12
July	3.19	2.28
August	3.18	3.26
September	1.58	1.32
October	4.62	3.35
November	2.34	3.67
December	2.80	3.44
	<hr/>	<hr/>
	32.33	28.94
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Average for the last ten years:—33:58

	Enteric Fever	Scarlet Fever	Erysipelas	Diphtheria	Puerperal Fever	Membranous Group	Total	North Ward	South Ward	East Ward	West Ward	Central Ward	Total
January.....	2	4	4	-	1	1	12	3	-	7	1	1	12
February.....	4	6	4	-	1	1	16	5	6	1	4	-	16
March.....	11	10	3	7	1	1	33	10	7	2	8	6	33
April.....	1	3	1	3	-	-	8	1	2	2	2	1	8
May.....	3	16	3	6	-	-	28	2	-	3	11	12	28
June.....	1	7	2	-	-	-	10	1	-	6	2	1	10
July.....	3	7	2	-	-	-	12	7	4	-	-	1	12
August.....	6	8	4	1	-	-	19	5	1	3	8	2	19
September.....	16	1	3	1	-	-	21	2	7	8	2	2	21
October.....	22	3	3	-	-	-	28	5	16	4	-	3	28
November.....	12	8	2	1	-	-	23	10	4	5	1	3	23
December.....	1	5	5	1	-	-	11	2	5	1	2	2	11
Totals.....	82	78	36	20	3	3	222	53	52	42	41	34	222

	Enteric Fever.	Scarlet Fever.	Ery-sipelas.	Dip-theria.	Puer-peral Fever.	Mem-braneous Group.	Total.	Estimated Population
North Ward...	18	18	11	5	1	-	53	6,248
South Ward...	35	13	1	2	-	1	52	3,186
East Ward ...	16	21	4	-	-	1	42	2,664
West Ward ...	6	13	13	8	1	-	41	4,087
Central Ward..	7	13	7	5	1	1	34	5,479
	82	78	36	20	3	3	222	21,664

I am, Gentlemen,

Yours obediently,

R. HARTLEY,

M.B.C.S., L.R.C.P.

Average for the Year

Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
1890	10	11	12	13	14	15	16	17	18	19	20	21
1891	22	23	24	25	26	27	28	29	30	31	32	33
1892	34	35	36	37	38	39	40	41	42	43	44	45
1893	46	47	48	49	50	51	52	53	54	55	56	57
1894	58	59	60	61	62	63	64	65	66	67	68	69
1895	70	71	72	73	74	75	76	77	78	79	80	81
1896	82	83	84	85	86	87	88	89	90	91	92	93
1897	94	95	96	97	98	99	100	101	102	103	104	105
1898	106	107	108	109	110	111	112	113	114	115	116	117
1899	118	119	120	121	122	123	124	125	126	127	128	129
1900	130	131	132	133	134	135	136	137	138	139	140	141
1901	142	143	144	145	146	147	148	149	150	151	152	153
1902	154	155	156	157	158	159	160	161	162	163	164	165
1903	166	167	168	169	170	171	172	173	174	175	176	177
1904	178	179	180	181	182	183	184	185	186	187	188	189
1905	190	191	192	193	194	195	196	197	198	199	200	201
1906	202	203	204	205	206	207	208	209	210	211	212	213
1907	214	215	216	217	218	219	220	221	222	223	224	225
1908	226	227	228	229	230	231	232	233	234	235	236	237
1909	238	239	240	241	242	243	244	245	246	247	248	249
1910	250	251	252	253	254	255	256	257	258	259	260	261
1911	262	263	264	265	266	267	268	269	270	271	272	273
1912	274	275	276	277	278	279	280	281	282	283	284	285
1913	286	287	288	289	290	291	292	293	294	295	296	297
1914	298	299	300	301	302	303	304	305	306	307	308	309
1915	310	311	312	313	314	315	316	317	318	319	320	321
1916	322	323	324	325	326	327	328	329	330	331	332	333
1917	334	335	336	337	338	339	340	341	342	343	344	345
1918	346	347	348	349	350	351	352	353	354	355	356	357
1919	358	359	360	361	362	363	364	365	366	367	368	369
1920	370	371	372	373	374	375	376	377	378	379	380	381
1921	382	383	384	385	386	387	388	389	390	391	392	393
1922	394	395	396	397	398	399	400	401	402	403	404	405
1923	406	407	408	409	410	411	412	413	414	415	416	417
1924	418	419	420	421	422	423	424	425	426	427	428	429
1925	430	431	432	433	434	435	436	437	438	439	440	441
1926	442	443	444	445	446	447	448	449	450	451	452	453
1927	454	455	456	457	458	459	460	461	462	463	464	465
1928	466	467	468	469	470	471	472	473	474	475	476	477
1929	478	479	480	481	482	483	484	485	486	487	488	489
1930	490	491	492	493	494	495	496	497	498	499	500	501
1931	502	503	504	505	506	507	508	509	510	511	512	513
1932	514	515	516	517	518	519	520	521	522	523	524	525
1933	526	527	528	529	530	531	532	533	534	535	536	537
1934	538	539	540	541	542	543	544	545	546	547	548	549
1935	550	551	552	553	554	555	556	557	558	559	560	561
1936	562	563	564	565	566	567	568	569	570	571	572	573
1937	574	575	576	577	578	579	580	581	582	583	584	585
1938	586	587	588	589	590	591	592	593	594	595	596	597
1939	598	599	600	601	602	603	604	605	606	607	608	609
1940	610	611	612	613	614	615	616	617	618	619	620	621
1941	622	623	624	625	626	627	628	629	630	631	632	633
1942	634	635	636	637	638	639	640	641	642	643	644	645
1943	646	647	648	649	650	651	652	653	654	655	656	657
1944	658	659	660	661	662	663	664	665	666	667	668	669
1945	670	671	672	673	674	675	676	677	678	679	680	681
1946	682	683	684	685	686	687	688	689	690	691	692	693
1947	694	695	696	697	698	699	700	701	702	703	704	705
1948	706	707	708	709	710	711	712	713	714	715	716	717
1949	718	719	720	721	722	723	724	725	726	727	728	729
1950	730	731	732	733	734	735	736	737	738	739	740	741
1951	742	743	744	745	746	747	748	749	750	751	752	753
1952	754	755	756	757	758	759	760	761	762	763	764	765
1953	766	767	768	769	770	771	772	773	774	775	776	777
1954	778	779	780	781	782	783	784	785	786	787	788	789
1955	790	791	792	793	794	795	796	797	798	799	800	801
1956	802	803	804	805	806	807	808	809	810	811	812	813
1957	814	815	816	817	818	819	820	821	822	823	824	825
1958	826	827	828	829	830	831	832	833	834	835	836	837
1959	838	839	840	841	842	843	844	845	846	847	848	849
1960	850	851	852	853	854	855	856	857	858	859	860	861
1961	862	863	864	865	866	867	868	869	870	871	872	873
1962	874	875	876	877	878	879	880	881	882	883	884	885
1963	886	887	888	889	890	891	892	893	894	895	896	897
1964	898	899	900	901	902	903	904	905	906	907	908	909
1965	910	911	912	913	914	915	916	917	918	919	920	921
1966	922	923	924	925	926	927	928	929	930	931	932	933
1967	934	935	936	937	938	939	940	941	942	943	944	945
1968	946	947	948	949	950	951	952	953	954	955	956	957
1969	958	959	960	961	962	963	964	965	966	967	968	969
1970	970	971	972	973	974	975	976	977	978	979	980	981
1971	982	983	984	985	986	987	988	989	990	991	992	993
1972	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005
1973	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017
1974	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029
1975	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041
1976	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053
1977	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065
1978	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077
1979	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089
1980	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101
1981	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113
1982	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125
1983	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137
1984	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149
1985	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161
1986	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	117	