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Contributors

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Pemberton Urban District Council.

MEDICAL OFFICER'S ANNUAL REPORT.

FEBRUARY, 1904.

To the Chairman and Members of the Sanitary Committee.

Gentlemen,

I beg to present my Thirtieth Annual Report on the sanitary condition of the Urban District of Pemberton, for the year ending December, 1903, together with tables of vital statistics of the whole district for the year and 10 preceding years, table showing the cases of infectious disease notified during the year, and showing causes of, and ages at death.

The year has been remarkable for long continued wet weather and no excessive heat during the summer.

I append herewith a table of the rainfall taken at the Waterworks Station.

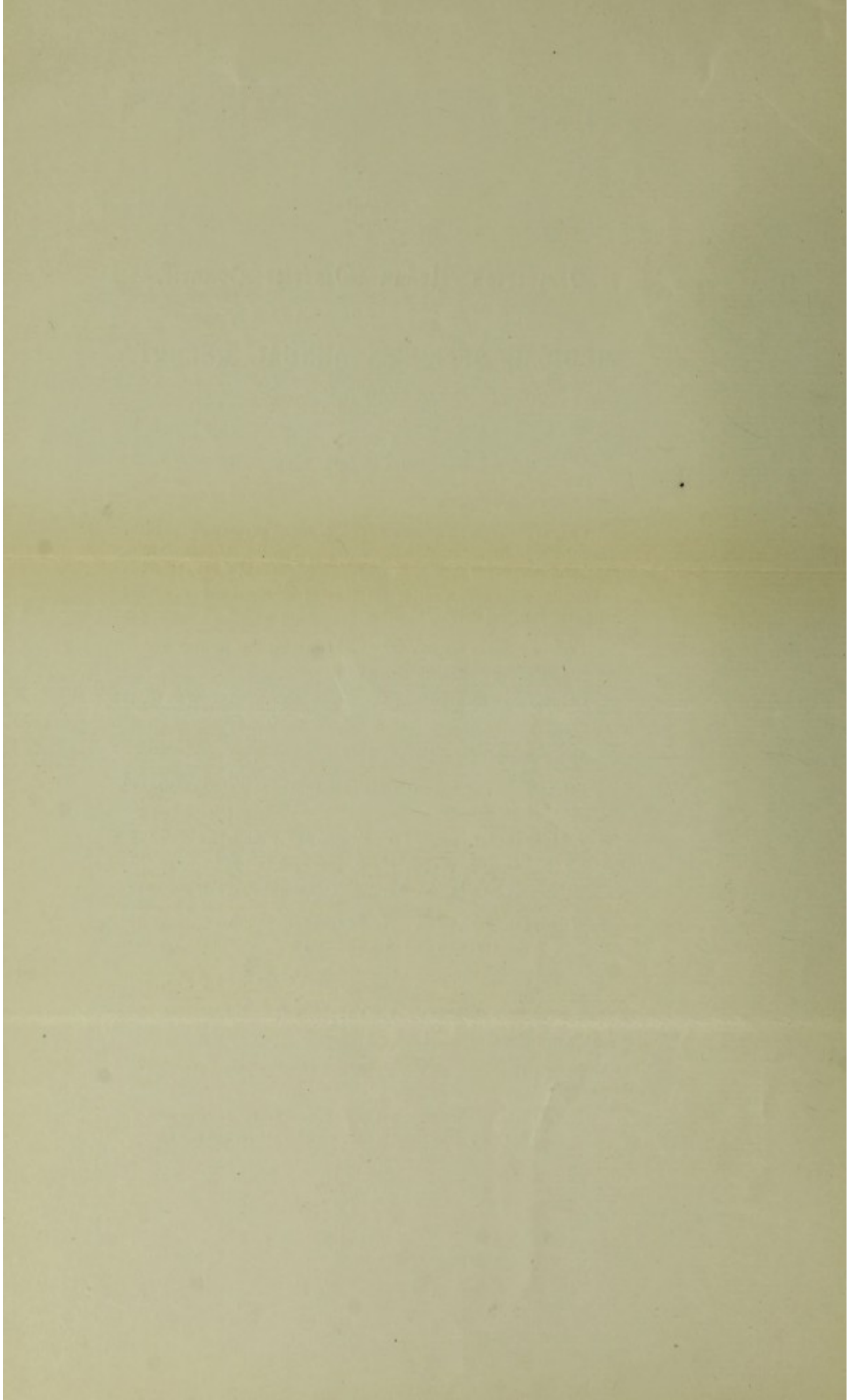
The (estimated) population is 22,398.

The births registered, number 865 (1 less than the previous year), 450 males and 415 females.

Males during the 1st quarter, 124	Females during the 1st quarter, 105
" 2nd " 114	" 2nd " 107
For the 1st half year, 238	For the 1st half year, 212
Males during the 3rd quarter, 97	Females during the 3rd quarter, 98
4th " 115	" 4th " 105
For the 2nd half year, 212	For the 2nd half year, 203

The deaths (including 17 out of the district) total 454; 241 were males, 213 females.

	Males	{ 1st quarter, 56	2nd quarter, 63 = 119 for 1st half year.
		{ 3rd " 69	4th " 53 = 122 for 2nd half year.
	Females	{ 1st quarter, 38	2nd quarter, 59 = 97 for 1st half year.
		{ 3rd " 58	4th " 58 = 116 for 2nd half year.



Deaths under five years		
1st quarter, 48	2nd quarter, 76	124 for 1st half year.
3rd quarter, 73	4th quarter, 51	124 for 2nd half year.

Deaths over five years		
1st quarter, 46	2nd quarter, 46	92 for 1st half year.
3rd quarter, 54	4th quarter, 60	114 for 2nd half year.

The births exceeded the deaths by 411. Deaths under six months 97, under 1 year 158, under 2 years 209, under 5 years 248.

The birth-rate is 38.6, slightly lower than the year before, and just under the average for the 10 preceding years. The death-rate is 20.2, the highest for the 10 preceding years; it was 20.0 for the year 1899. The rate of infantile mortality under 1 year, per 1,000 births, is 182, higher than the average for the 10 preceding years.

The death-rate from the 7 zymotic diseases is 4.6 as compared with 2.5 for the preceding year, and 2.7 for the 10 preceding years.

Diseases prevalent: Small-pox, scarlet fever, measles, enteric fever, whooping cough, diphtheria, diarrhoea and dysentery,

Small-pox.—As was anticipated, broke out in the district appearing on the 4th of April. Fifteen cases were notified and two deaths between April and July. The patients were immediately removed without delay to the small Hospital within the district, which was largely instrumental in preventing the spread of the disease. Attached to this report is a list giving particulars of the cases in tabular form. Infection in the June cases was carried from a person in the adjoining district. No fresh out-break occurred during the remainder of the year. Herewith is a full report.

Scarlet Fever.—Throughout the district there were 363 cases notified, as compared with 78 for the previous year; 15 deaths were recorded (1.24 cases) rate .7. Few were treated in Hospital, however, care was exercised to isolate, as far as possible, at their own homes. This was due to a desire to keep the Hospital for small-pox, and to its being used for that purpose. We were handicapped in a similar manner with our enteric cases, the majority of which were treated at their homes, a man being put in attendance on each case.

When the new County Hospital is provided we shall be able to deal with these cases, as at present we are not in a position to treat more than one infectious disease at a time.

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
540 EAST 57TH STREET
CHICAGO, ILLINOIS 60637

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Measles caused 30 deaths, chiefly affecting those attending Highfield Schools, in the Central Ward, which district had escaped the epidemic the year before. Schools were closed at Goose Green in the South Ward for ten days in June on account of measles.

Whooping Cough caused 6 deaths, rate .2, a few cases scattered over the district.

Diarrhoea caused 37 deaths, (rate 1.7) as compared with 34 for the year before.

Dysentery.—A smart attack affecting both children and grown-up people, extending over certain streets in Goose Green in the South Ward, caused 46 cases and 2 deaths. There is a fried fish shop in the locality, and a consignment of fish was found to have been brought into the district on a certain day, a large quantity of it having been destroyed in the market town. I could not trace the outbreak to any more likely cause.

Diphtheria ...	6 deaths, rate .2	Heart Disease	30 deaths, rate 1.3
Erysipelas ...	3 " " .1	Cancer ...	7 " " 27 .32
Croup ...	6 " " .2	Bronchitis ...	24 " " 1.7 1.07
Phthisis ...	23 " " 1.02	Pneumonia...	54 " " 2.4

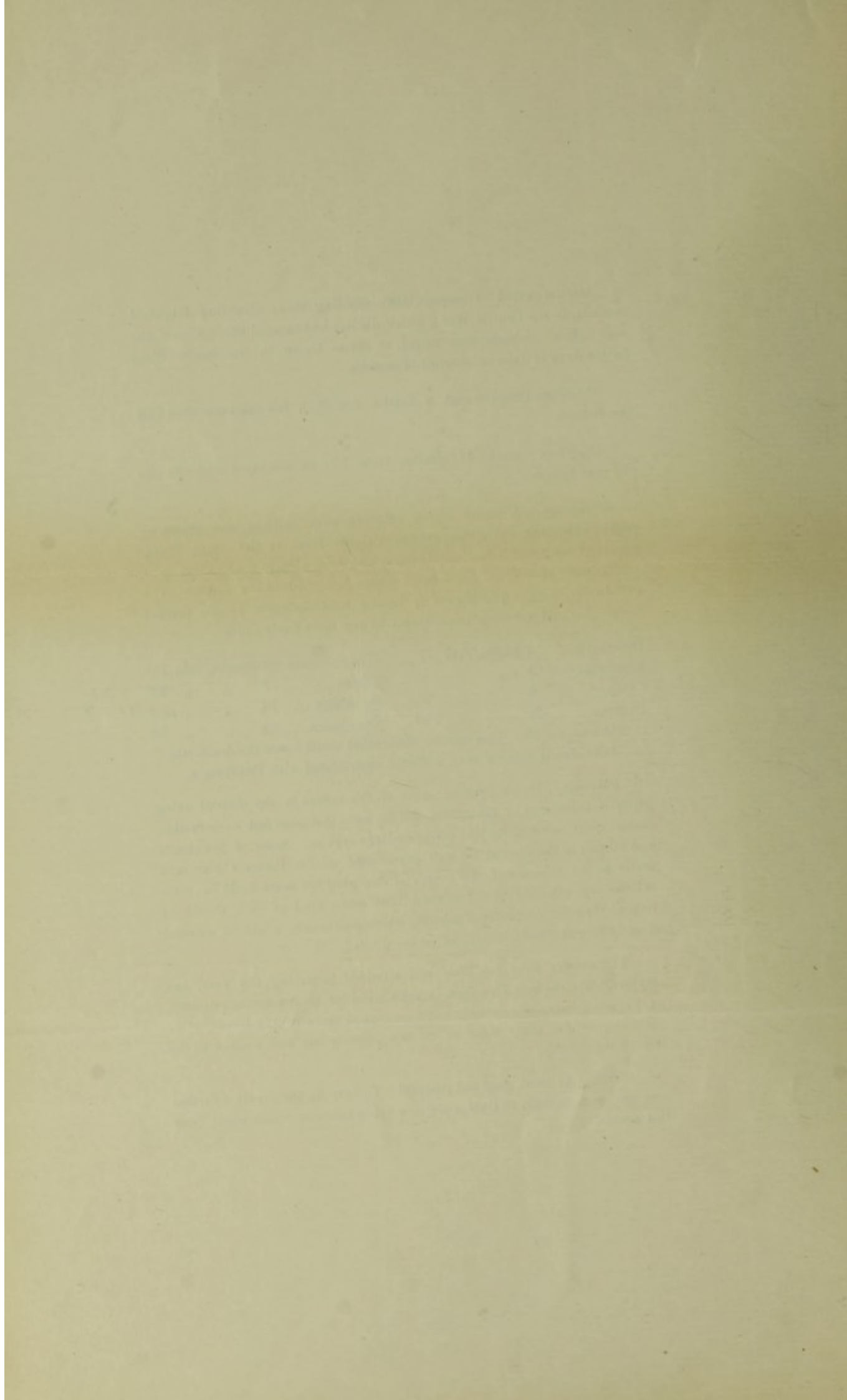
Premature 23. This number if excluded would lower the death-rate.

Influenza is credited with 2 deaths complicated with Pneumonia.

Sewerage.—In my opinion, some of the sewers in the district owing partly to subsidence of the mines, and in some instances bad construction, are not quite suitable for the water carriage system. Some of the closets and ashpits in the district are well constructed on Dr. Parson's plan, and would be no nuisance if the means of emptying the same could be more satisfactory attended to. I advised that some kind of cart should be used so that the contents of ashpits, where practicable, could be emptied directly into the same, instead of on the ground.

The sewage farm has been well attended to during the year, and improvements made. This farm is not a nuisance to any house property, as it is some distance removed therefrom, nor is there any likelihood of its becoming so for some time, as no new property has been erected in the immediate vicinity.

Water.—As usual, good and plentiful. To keep up the supply a further area has been secured, and steps are now being taken to obtain water from this source.



Slaughter-houses, bakehouses, factories and workshops have been inspected, and a number of streets and back passages have been paved and flagged, as the outcome of frequent and systematic inspection.

1st Quarter:—

Piggeries found in position and condition so as to be a nuisance at Smithy Brook, and Martland Mill Bridge, also at Worsley Mesnes, where animals were kept in a covered yard adjoining a bakehouse. Nuisances abated after notices served. Accumulations of manure dealt with at Newtown and Lamberhead Green.

Water and foul matter lodging on surfaces of back passages at Spring Bank, Newtown, and Highfield, where improvements was effected by excavating, ballasting, and covering with ashes.

Pollution of pond from which water supply for cattle is obtained at Melling's Farm, Tanpits, noticed, and a manure heap found to be fouling a tributary stream. Notice served on owner to remove manure heap. Pond drained empty and cleaned before being refilled with clean water.

Drains tested at Brickcroft, Thwaite's Delf, and Worsley Mesnes, were found to be old stone soughs allowing free escape of sewer gas, and they were replaced with proper glazed pipe drains after notices served. Slight defects and minor stoppages attended to at other properties, and in two instances flooding of cellars found.

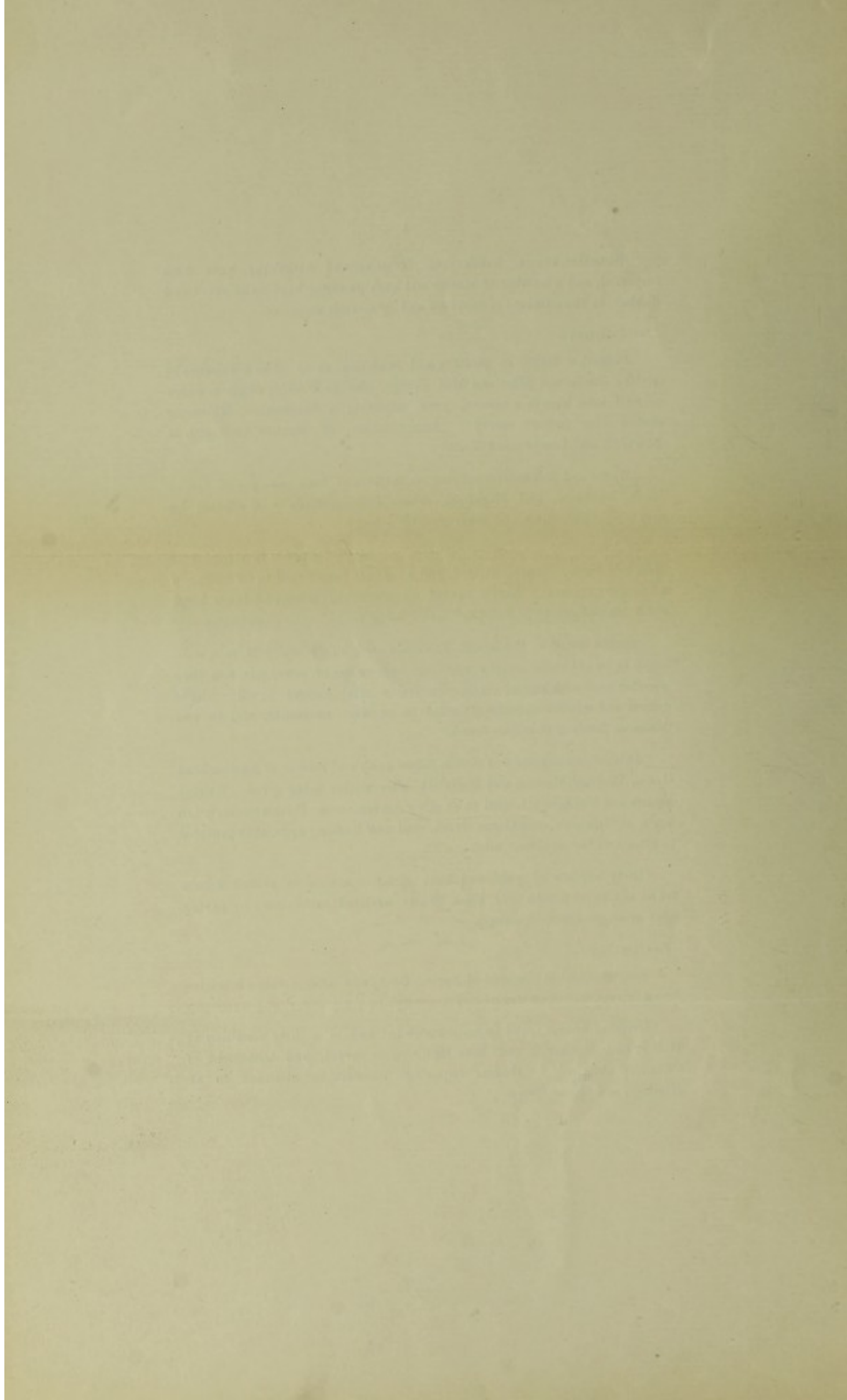
Dilapidated ashpits and closets taken down and rebuilt at Lamberhead Green, Worsley Mesnes, and Highfield, after notice being given. Sundry repairs and leakages attended to at other conveniences. Privies converted to w.c.'s. at Newtown, and Goose Green, and new flushing apparatus provided to closets at Goose Green school.

Dirty surface of yard and back street, common to several houses found at Chapel Street and Fleet Street rendered satisfactory by paving after arrangement with owners.

2nd Quarter:—

Smoke nuisance observed at Spring Bank, and after owner's attention being drawn, no recurrence.

Dwelling-houses found to be overcrowded and in a dirty condition at Holt Street, Brickcroft, and Rose Hill, notices served, and abatement of nuisances obtained. Houses requiring limewashing attended to at Highfield and Goose Green.



Various properties on inspection were found with defective drains, broken gullies, &c., from which sewer gas escaped close to the back doors, and in one case in the cellar. Owners communicated with and defects put right. A number of stoppages in house drains removed, and pipes flushed. Waste pipes connected direct to drain at Spring Bank.

Main sewer extended at Park Lane to receive new drains from old property, old drains having been previously condemned as a nuisance.

Nuisances caused by hens being kept in back yards noticed, and afterwards remedied at Newtown, and Lamberhead Green. Urinal in foul condition, and dirty house yard, behind chip potato shop at Lamberhead Green not satisfactory. Owners notified, and nuisances abated.

Wood sheds erected over back doors of dwelling houses observed to be interfering with the light and ventilation of living room, and enclosing house gullies at Newtown and Worsley Mesnes. Removed after notices were sent.

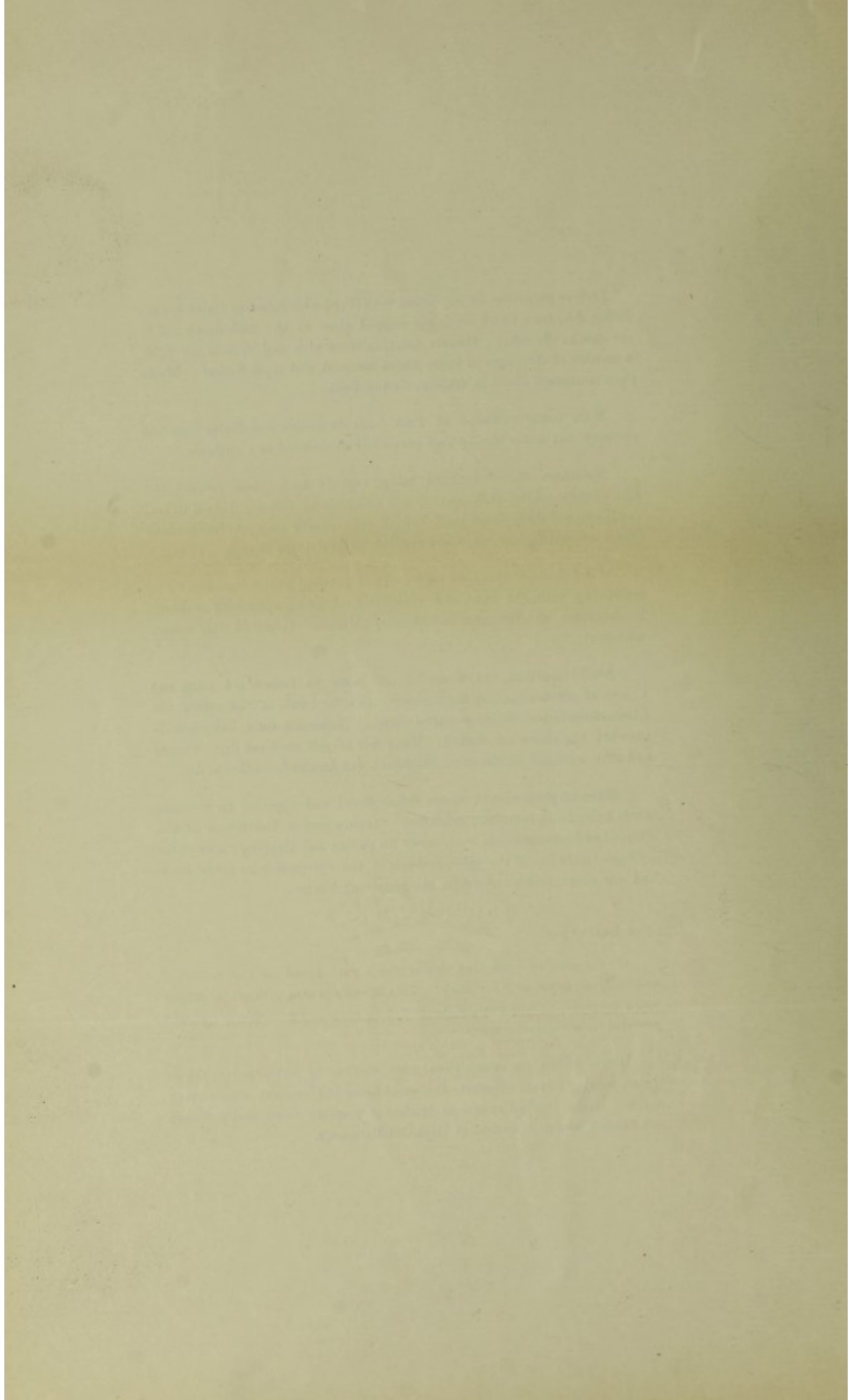
After inspection, notice served on owner to remove old privy and uncovered ashpit adjoining the highway, and in front of the cottages at Lamberhead Green, building pulled down. Nuisances from leaky ashpits reported, and afterwards abated. Many wet ashpits rendered dry. Closets and ashpits rebuilt at Newtown, Highfield, and Lamberhead Green, &c.

Different properties at Goose Green found and reported for common yards being in an insanitary condition. Owners met a Committee of the Council and arrangements were made for paving and flagging; also three cottages inside one of the yards, and one at the entrance to be taken down and new conveniences erected for the remaining houses.

3rd Quarter:—

Owner notified regarding drains which were found in foul condition and badly arranged at Pony Dick. This house was also without a proper water supply. New drains laid connected to main sewer, and water supply provided from Council's mains.

House gullies, on examination, were seen to be untrapped at Goose Green, causing serious nuisance, the same being put in order after serving notice. Drains stopped at several blocks of property subsequently opened and cleaned, and drains relaid at Highfield Parsonage,



Old and delapidated shippens noticed to be unsatisfactory were taken down at Goose Green and Tanpits. New shippens erected conforming to Council's regulations, the work being carried out after attention being drawn to defective condition.

Properties found at Newtown and Worsley Mesnes, houses dirty and requiring limewashing, and some overcrowded. Notices served. Several cases of poultry keeping in house yards dealt with and nuisances abated.

Examination revealed unsatisfactory ventilation and drainage to dwelling houses at Scot Lane and Sydney Street. Premises subsequently rearranged and back doors put in to provide through ventilation. New drains and slop sinks provided. Owners served with notice.

Sewer ventilators found broken and useless at Soho Street and New Row. Complaints of smells from manhole in New Street. Attended to by fixing closed cover.

Common back yard at Brackley Street and about gullies in Silver Street requiring paving. Notices complied with.

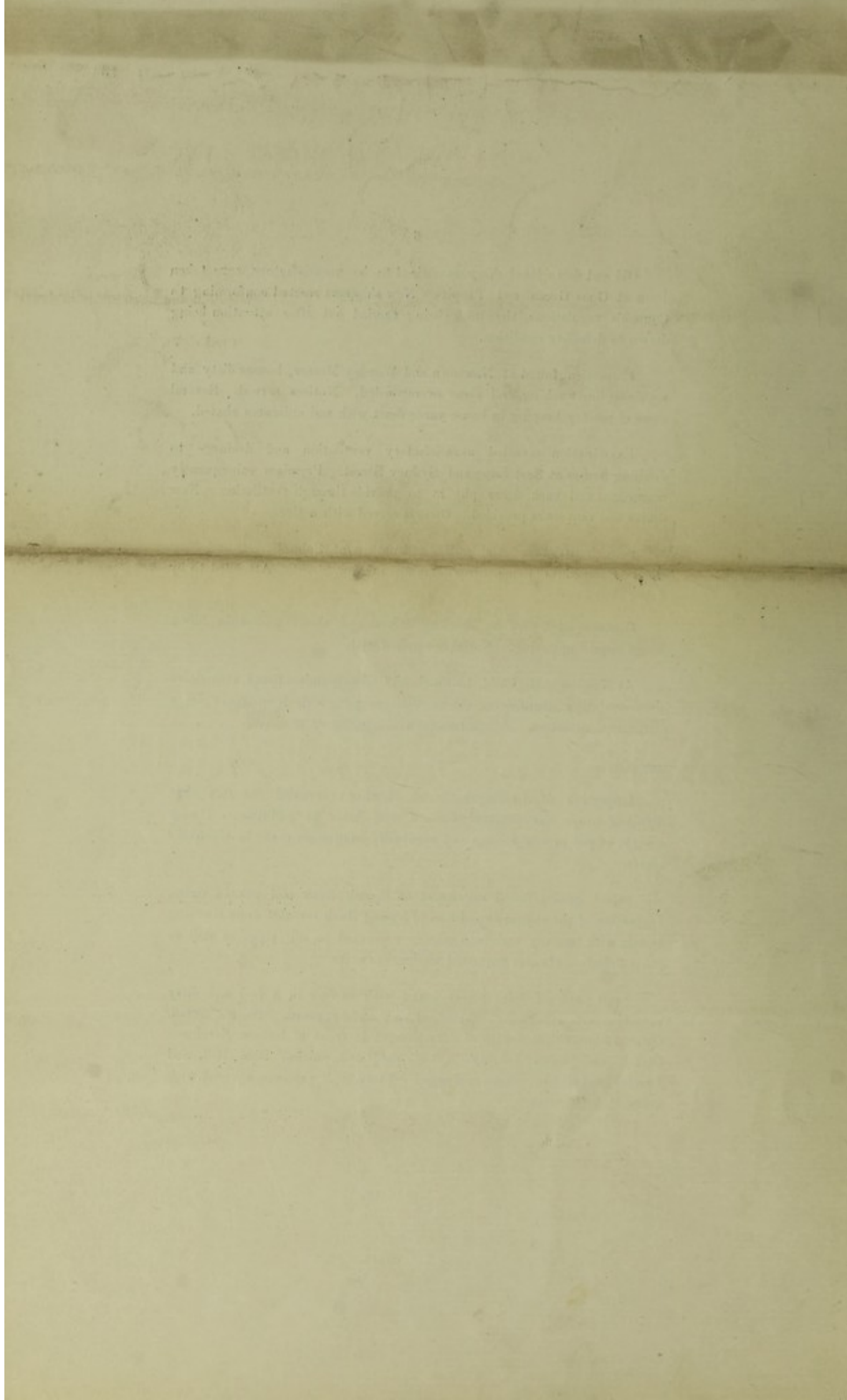
At Newtown, Highfield, Lamberhead Green, premises found with closet accommodation insufficient, others with ashpits wet, leaking, or in a dilapidated condition. Afterwards rebuilt, repaired or cemented.

4th Quarter:—

Inspection of dwelling-house at Newtown revealed the fact that drinking water was obtained from a well liable to pollution. Owner ordered to put in new fittings and eventually connection made to Council's mains.

Street gullies found untrapped at Spring Bank and put in order. Inspection of the sanitary condition of Spring Bank revealed some dwelling houses with lavatory and bath wastes connected to soil pipes as well as other defects. Owners requested to improve same.

pen yard off Soho Street found with surface in a foul and dirty condition and reported. Re-drained and surface paved. Notice served. Owners communicated with re dirty parapet in front of houses, Sarginson Street, and water lodging in back-yard and entries, Rose Hill, and Lamberhead Green. Same re-flagged. Dirty back passages covered with ashes, Enfield Street.



Notice served for conversion of privies to w.c.'s at Lamberhead Green and Newtown. After inspection and report on present privy accommodation in back courts at Worsley Mesnes, owners were met, and arrangements made for w.c.'s. to be provided to several of the properties.

Examination of cellars at Lamberhead Green and Ellesmere Road, showed them to be damp and foul owing to the want of drainage; also house walls and floors damp and dirty at Half-Way House, caused by bad brickwork in water-logged ground. The same defects caused at Smithy Brook and Goose Green by decayed eave spouts. New drains were laid or spouts fixed after seeing owners.

Removal of wood sheds erected over back doors and windows effected at Newtown and Highfield. Tenants written to.

Opening drains, revealed cesspools in line of drainage at Half-Way House and Lamberhead Green, these were removed, drains rearranged, and ventilators provided. Other defective drains made good by relaying, &c., and some stoppages relieved and pipes cleaned. Notices served.

Ashpits and closets found dilapidated or defective attended to.

In the year 1903, 6,653 ashpits have been emptied and cleaned, 10,993 loads being removed, and in 1902, 6,299 ashpits with 11,067 loads. This shows there has been a more frequent attention.

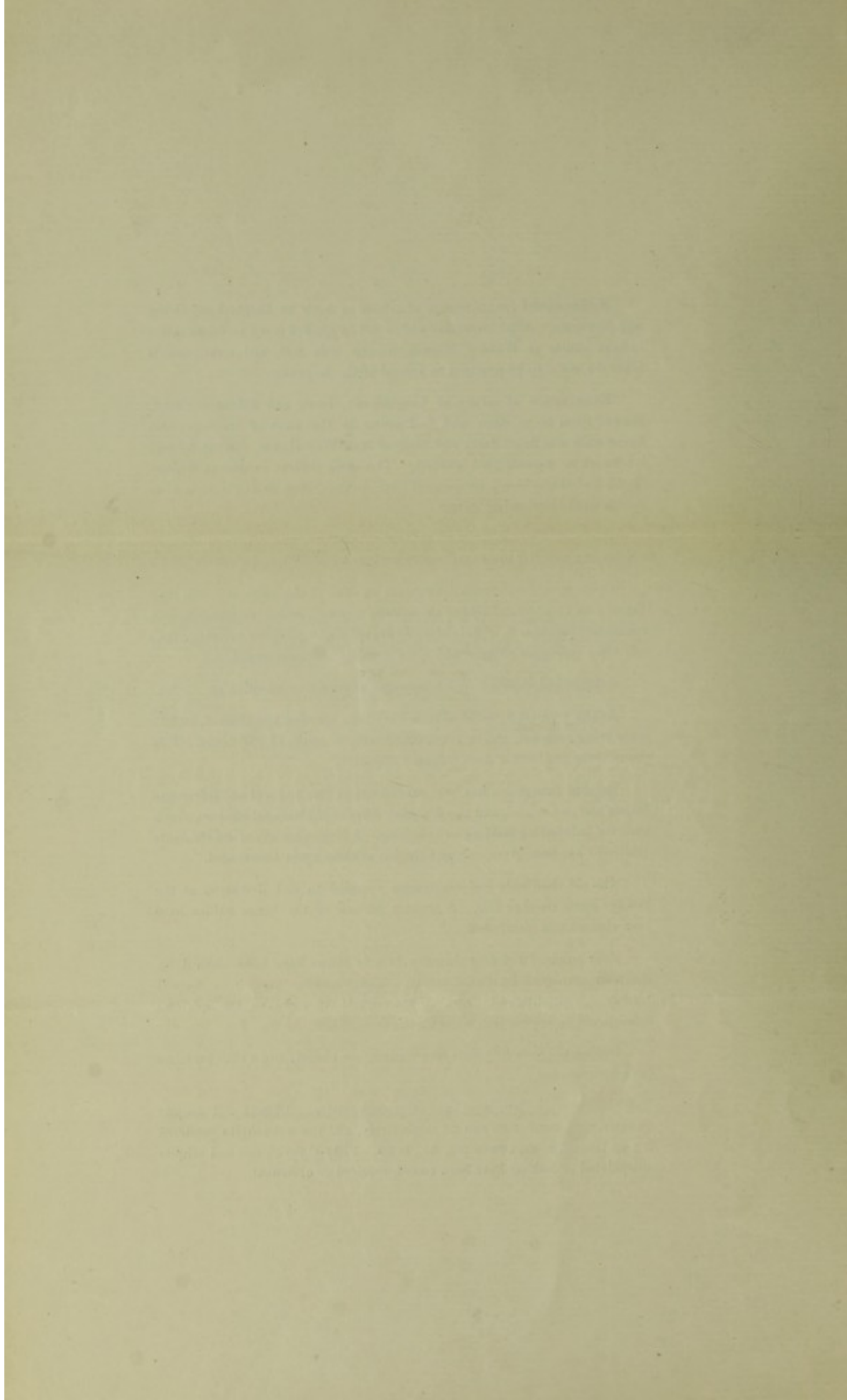
Sulphur fumigation has been carried out at two hundred and thirty-one houses and one school, and the dry heat stove at the hospital has been much used for disinfecting bedding and clothing. A large quantity of disinfectants (carbolic) has been given out, and the use of same again encouraged.

The old chaff beds and mattresses removed to and destroyed at the Sewage Farm number 156. A greater portion of the house gullies have been cleaned and disinfected.

Four hundred and fifty chimney flues to houses have been cleaned by the man employed by the Council. Many persons have been warned regarding their chimneys being seen on fire. In one case the aggressor was ordered to appear before the Council.

During the year fifty-four new houses, one chapel, and a club premises have been erected.

Sixteen w.c.'s. have been fixed to replace privies. Closets and ashpits reconstructed number 38 and 24 respectively, and the wet ashpits rendered dry by raising floors, cementing, &c., is 60. Fifty-eight closets and ashpits dilapidated or leaking have been roofed, repaired or cemented.



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Ward	Typhoid Fever	Enteric Fever	Scarlet Fever	Ery- sipelas	Dip- theria	Puerperal Fever	Mem. Croup	Small- pox	Total
North Ward ... ..	...	6	56	3	9	...	...	...	74
South Ward ... ..	...	11	98	3	3	...	...	4	119
East Ward.....	...	4	27	1	1	...	...	...	33
West Ward.....	...	6	61	17	2	4	2	8	100
Central Ward ..	1	5	121	16	10	...	...	3	156
	1	32	363	40	25	4	2	15	482

Administration of Factory and Workshops Act, 1901.

Outcome of Systematic Inspection.

Attention drawn in several cases to the need of limewashing and same attended to.

No cases of overcrowding have been found, but in a few workshops the ventilation requires slight improvement. Notice served in one instance for insufficient closet accommodation

Workrooms at No. 7, Duke Street, and 28, Barton Street closed temporarily owing to cases of scarlet fever occurring in the houses.

List of Workshops :—

Tailors	6
Dressmakers	21
Milleners	7
Baby Linen	4
Saddlers	2
Picture Framers	1
Cooper	1
Wheelwrights & Blacksmiths	5
Tinsmith	1
Nailmakers	1
Watchmakers	3
Shoemakers & Cloggers ...	24
Cabinet Maker	1

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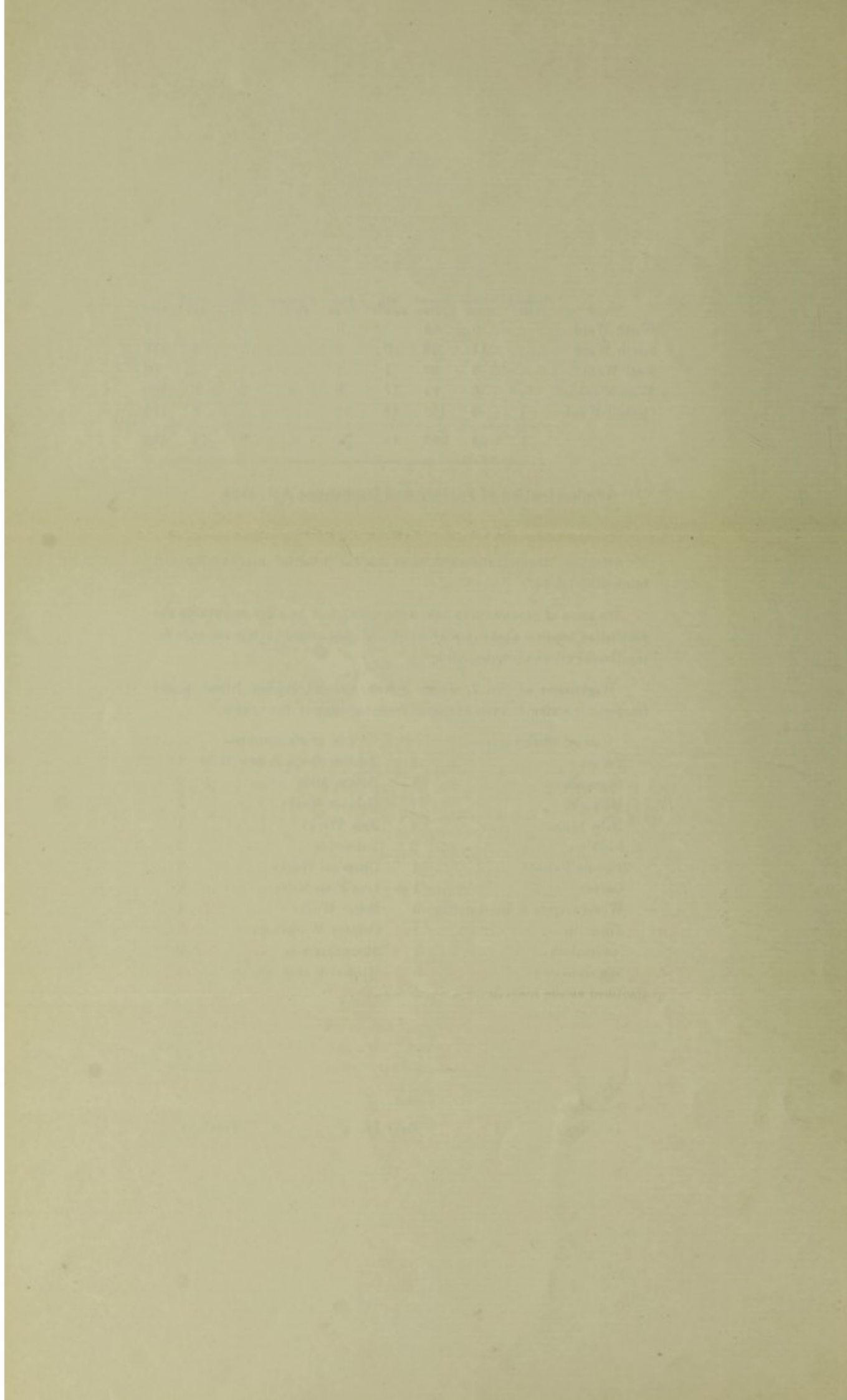
List of Factories :—

Joiners Shops & Saw Mills	4
Cotton Mills	2
Cabinet Works	2
Jam Works	1
Breweries	2
Chemical Works	2
Iron Foundries	2
Boiler Works	1
Colliery Workshops	3
Stone Quarries	2
Mineral Water Works ...	1

22

Out-workers :—

Tailoring	1	Baby Linen	3	Total—	4.
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*Special Report on the epidemic of Small-pox within the district of
Pemberton.*

Small-pox had been prevailing for some little time in adjoining districts of Wigan and Orrell, but the disease only first appeared in this township on April 4th, and continued during four months, breaking out intermittently until July. The last case being notified on June 22nd; the total number being 15. Males, 7 cases, with 2 deaths; Females, 8 cases. The occurrences in the different months were:—April, 8; May, 4; June, 3. The districts affected being South Ward, 3; East, 1; West, 8; and Central, 3; North Ward escaping altogether.

All the patients were treated in the Infectious Diseases Hospital, to which they were promptly removed. All infected bedding carried away and destroyed with fire, the houses fumigated and afterwards limewashed, and the premises generally disinfected.

All contacts and also residents in the infected area were visited and urged to be vaccinated, the majority complying with the request. The contacts were kept under observation for two or three weeks.

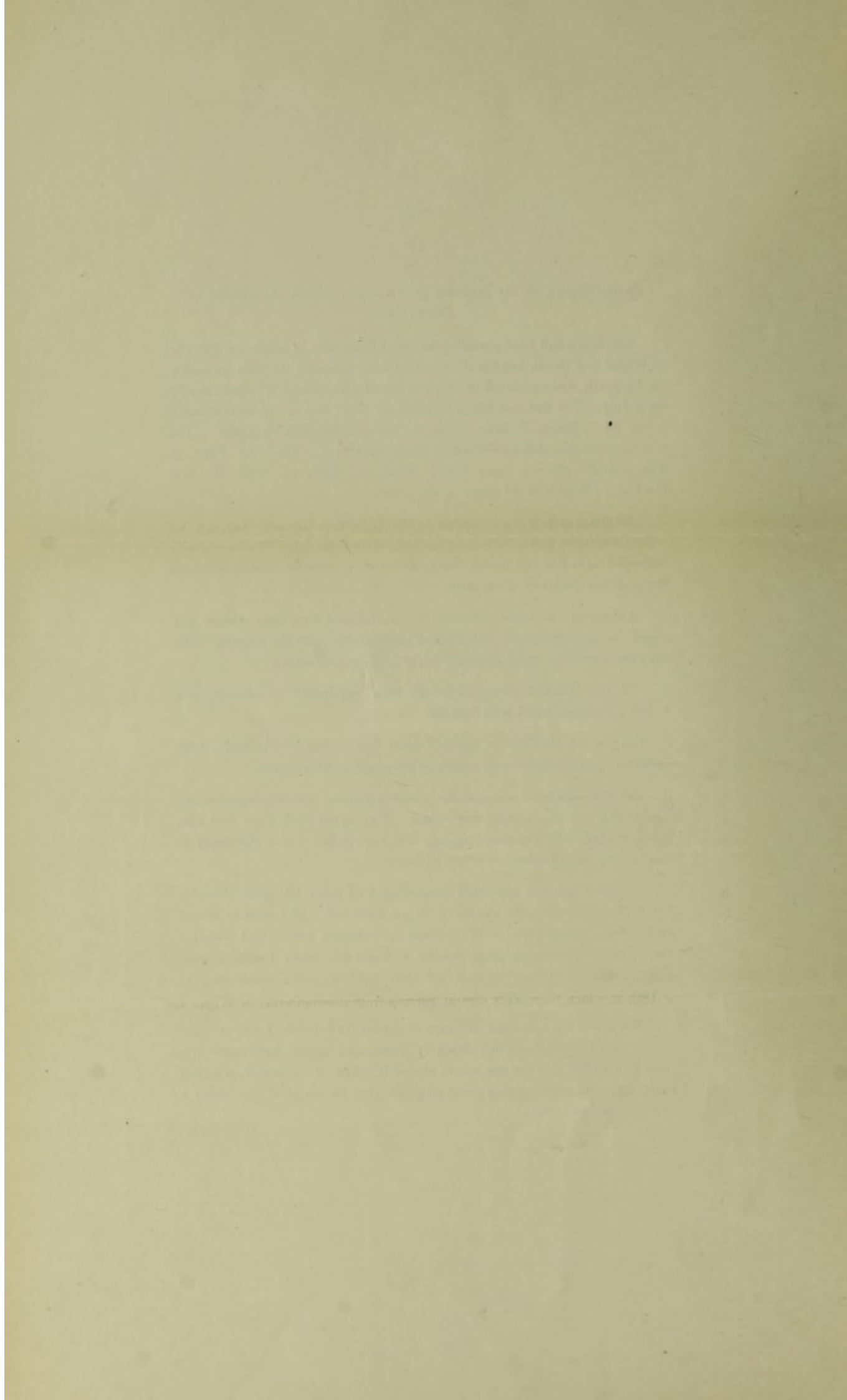
Of the infected persons 12 had been vaccinated in infancy, and 1 died; 3 unvaccinated with 1 death.

Parents or relatives in several cases had suffered previously from smallpox showing there were a certain proneness to this disease.

All the cases were amongst the working classes, but no overcrowding was found and the houses were clean. Two of the back doors open into common yards which require paving, and one gully under the slop-pipe was broken and allowing sewer gas to escape.

The first case was a married woman, aged 22 years, living at Brackley Street, Goose Green, who was taken ill on April 3rd. She went to Wigan on her first journey after being confined a fortnight before, and visited a second-hand clothes shop, experiencing a bad smell when handling some soiled blankets. The husband and two children were vaccinated and quarantined at the hospital for a week.

No. 2 was a single man, 29 years of age, of 111, Little Lane, in same Ward. He frequently visited Brackley Street and might have come into contact with No. 1 when she was in the early stage. He, however, attended entertainments with a gramophone and took part in one at Wigan about a fortnight before being ill.



No. 3 resides close to the Orrell boundary, and is an unmarried daughter of a man of the tramp type, who goes away and comes home any time, mostly frequenting common lodging houses, and from one of which he returned about March 24th, feeling unwell. The daughter being taken seriously ill about April 10th. She gets her groceries from a shop in the infected area in Orrell, and noticed a bad smell about a fortnight previous when passing the open door of an infected house where a patient was confined, suffering from smallpox. She also acts as washerwoman to several people.

No. 4, a married man, aged 44, living in same street as No. 3, their yard also adjoining, probably came in contact with her, as she had been ailing without being indisposed until the rash appeared. The man's wife is a neighbourly woman. He also acts as Secretary to a Friendly Society whose members are drawn from round about the Orrell infected area.

No. 5, a married man, aged 31 years, residing in Central Ward, passed through Wigan night and morning to his work at Wigan. He also acted as Collector for St. Cuthbert's Church, and went round the Orrell infected area on March 29th, at the time suffering from a cold.

No. 6, also an inhabitant of Central Ward, and married. This man acted as visitor to a Friendly Society and took notices round Orrell about April 2nd. He is also a member of a fishing club held in Orrell, and visited Newburgh on April 4th to fish.

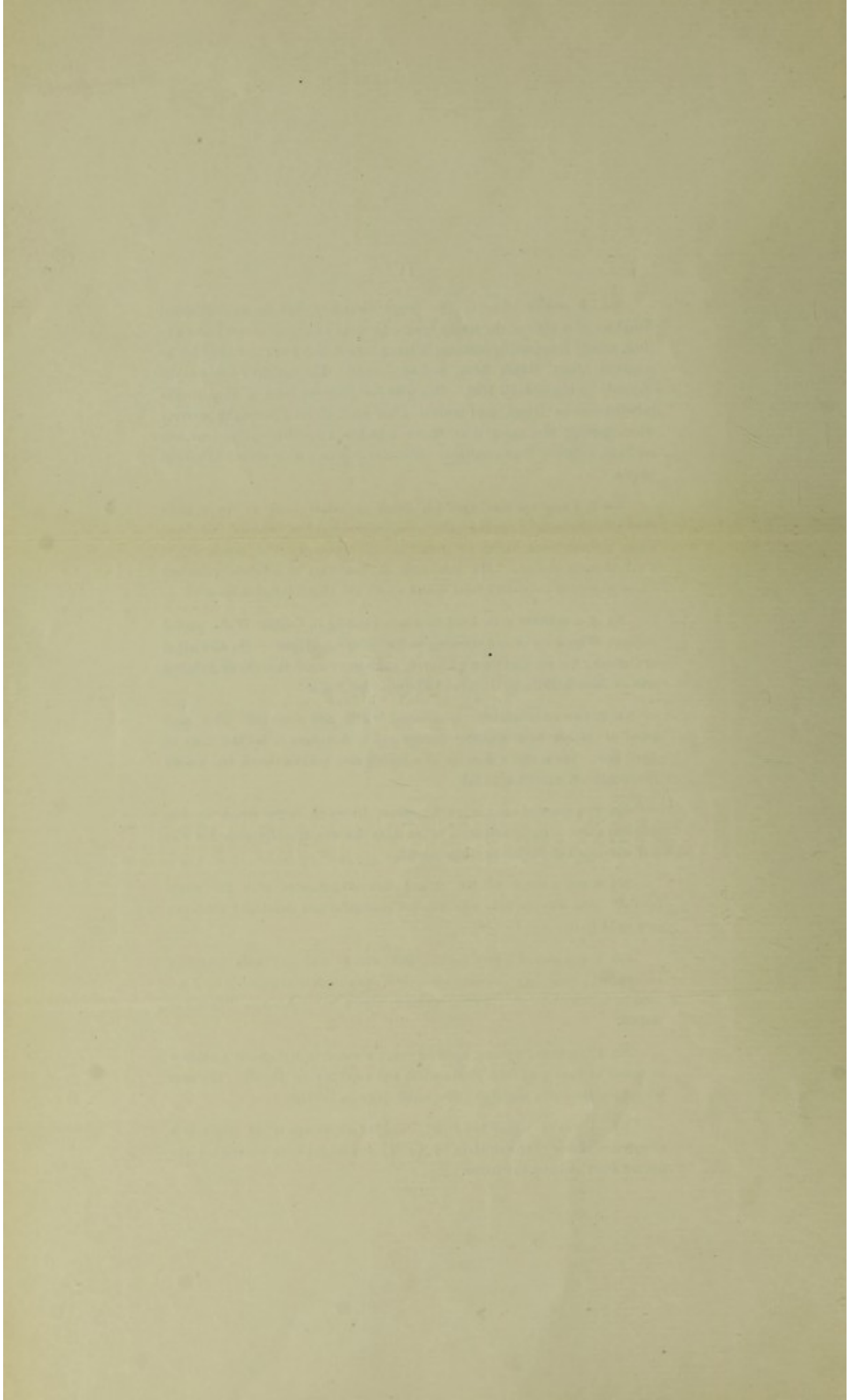
No. 7, a married man, aged 31 years, living in same street as two previous cases, directly traceable to No. 3, as she was friendly with his wife and often visited the house while unwell.

No. 8 was a sister to No. 2, and was re-vaccinated with the whole family. She was the only who was not successful and developed small-pox in a mild form.

No. 9 was also of a mild form. The woman had not been traceably in contact with any previous case, but she attended a wedding on April 18th at which there were several persons from infected areas in Wigan and Aspull.

No. 10, married woman, aged 56 years, assisted in laying-out a nephew supposed to have died from rheumatism and smallpox in Orrell. The man who made the coffin also had a few small spots on his face.

No. 11 was of a modified form. The lad whose age is 15 years, is a companion of one of the children of No. 4, and might have contracted the disease from visiting the house.



No. 12, aged 21 years, is a lodger in East Ward. Case notified on May 26th, after being ill for several days. Keeps company with a daughter of one of the Council's disinfectors and visits the house frequently. Although vaccination had been recommended it was refused. He also visited Fazackerley for the purpose of fishing on May 9th.

No. 13, a married daughter of No. 10, living at home and occupying same bedroom, although pressed to be vaccinated refused, and took ill.

No. 14, a young girl aged 17 years, is a companion of one of the daughters of No. 10, and has spent much time in the house. Both girls were prevailed upon to go to the doctors to be re-vaccinated, but this one although pressed by the Doctor, refused, with the consequence that she developed the disease on June 14th.

No. 15. This case was peculiar, the woman being an epileptic imbecile and never allowed out of the house, except in the back yard. As there was no cases in the immediate vicinity the only suspicion of infection was a nephew who visited his aunt about June 3rd, after having been into the house of No. 10, in the same row of which he also lived. This lad had had a sore throat and slight sickness but nothing of a serious character.

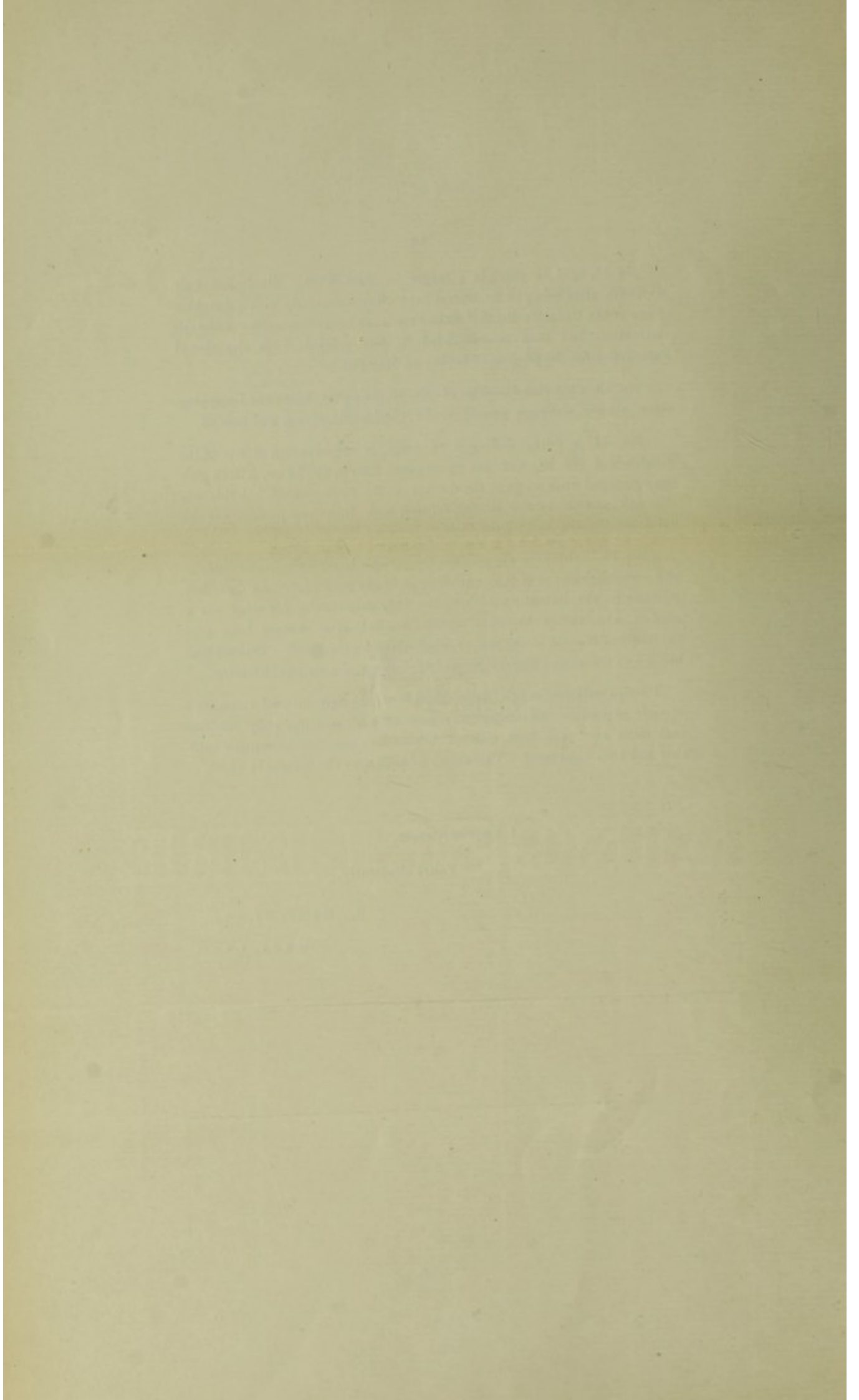
Prompt isolation, and people in the houses and neighbourhood vaccinated as early as possible, one intelligent colliery manager assisting us by sending back those who went from infected houses or had been in contact until they had been vaccinated. This seems to have kept the disease in check.

I am, Gentlemen,

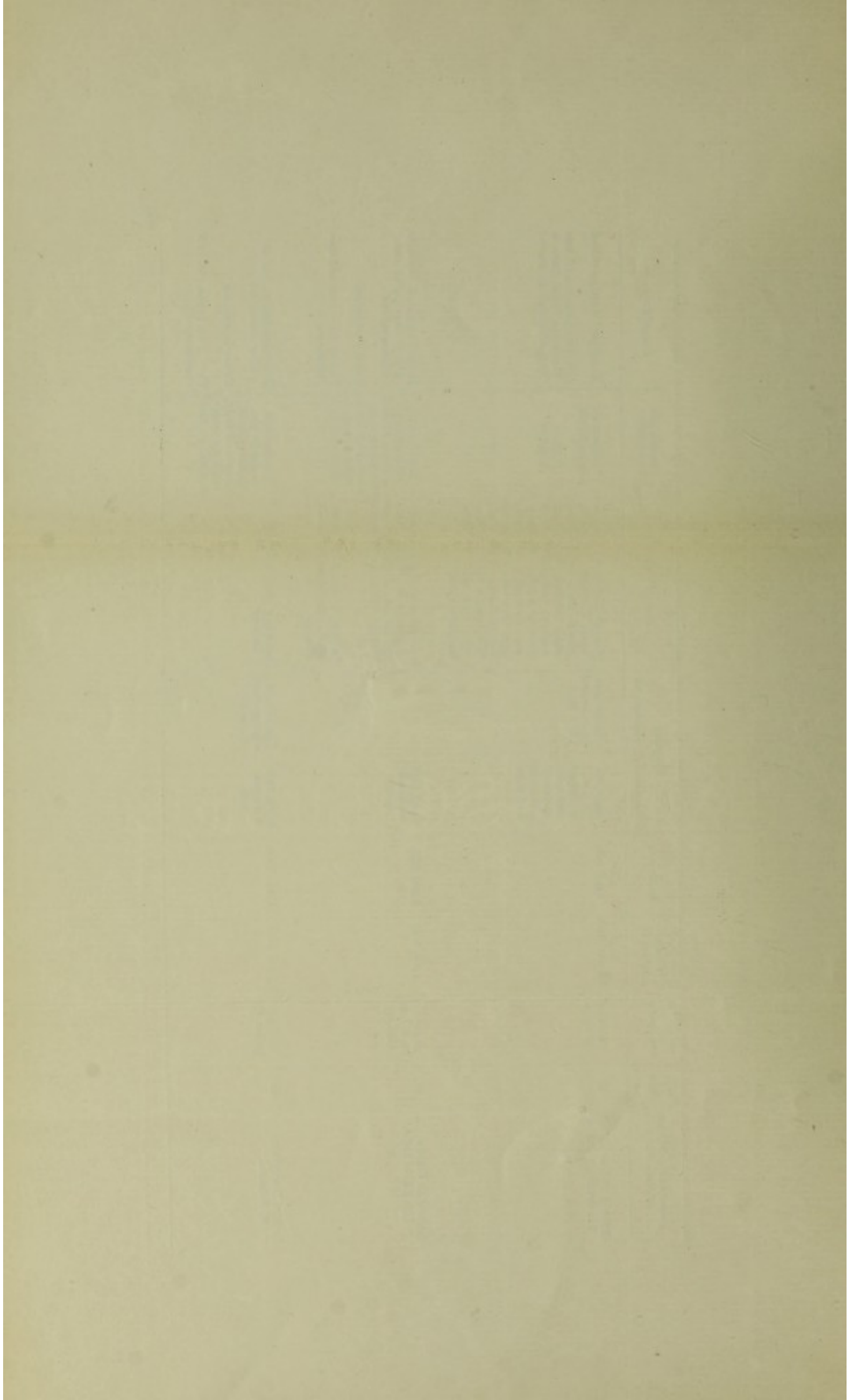
Yours obediently,

R. HARTLEY,

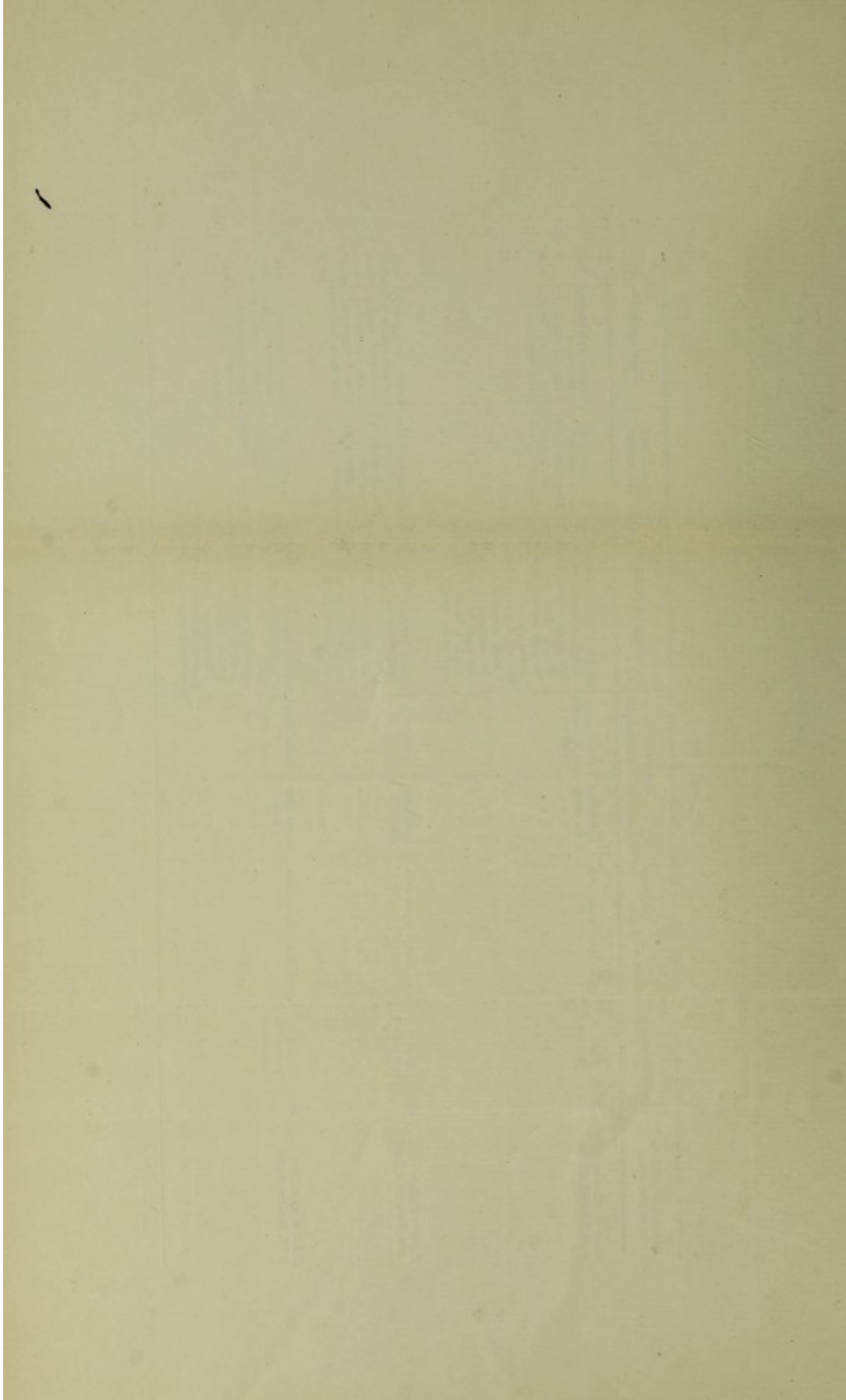
M.B.C.S., L.R.C.P.



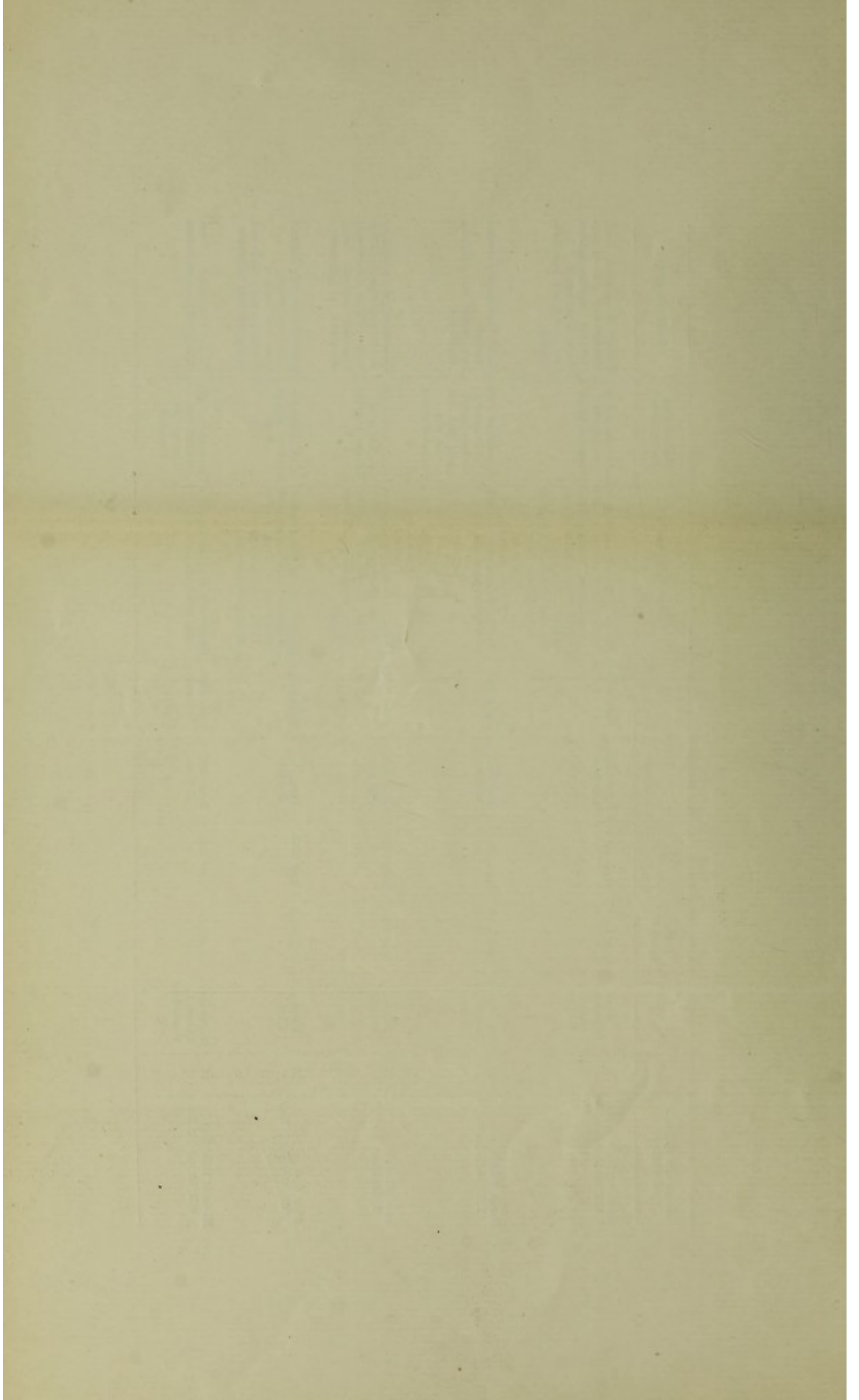
Name and Address of Patient.	Age	Occupation	Date taken ill	Broke out	Admitted	Hospital Discharged	Cause of Infection	Disease and Vaccination	Disinfection, &c.
Ellen Ann Davies ... 31, Brackley Street	22	Married Woman	1903 April 2nd	1903 April 4th	April 8th 8 p.m. Husband and two children quarantined five days	Discharged convalescent May 26th	Went to Heywood's Second-hand Clothing Shop on March 23rd, and handled some blankets, &c., which smelled, and said to have come off a ship. Had only been confined a fortnight; first time out. Husband visited house in Standish two months before, where they were said to have had small-pox	Vaccination marks 2- $\frac{1}{8}$ in. Disease Discreet	House and bedding stored One living room and two bedrooms, front place, a draper's shop, also stored
Zechariah Clarke ... 111, Little Lane	27	Drawer, Park Lane Colliery	April 10th	April 12th	April 13th 4 o'clock p.m.	...	Went about with gramophone to places in Wigan; said to be at a Concert on March 28th, in Victoria Hall	Reported as vaccinated; marks not visible, Mulberry rash, discreet on body, thick on arm, confluent on face	House fumigated, two beds and pillows burnt and clothes stored House limewashed Two living rooms and two bedrooms
Robert Derbyshire ... 4, Belmont	44	Collier, Queen Pit	April 12th	April 14th	April 14th 8 o'clock p.m.	Discharged convalescent June 10th	Died in Hospital on April 23rd; interred at St. John's Church	Vaccination marks 1- $\frac{1}{8}$ in. Mulberry rash, discreet on body, thick on arms, confluent on face	House fumigated, bed and pillow destroyed House limewashed Two living rooms and two bedrooms



Name and Address of Patient	Age	Occupation	Date taken ill	Broke out	Hospital		Cause of Infection	Disease and Vaccination	Disinfections, &c.
					Admitted	Discharged			
Mary A. Cartwright... 18, Church Street	33	Washer, woman	April 11th	April 13th	April 14th 8 o'clock p.m.	Discharged convalescent May 26th	Father a tramp coming and going to house. Had left Morgan's lodging-house in Wigan, and come home because not so well three weeks ago. Woman trades at shop in Orrell, infected area, and remembers experiencing bad smell when passing an infected house. Not so well at the time.	No vaccination marks, but said to have been done when young. Disease discreet	House fumigated, be destroyed House linewashed Two living rooms and two bedrooms
Peter O'Malley ... 584, Ormskirck Road	35	Collier, Elms Colliery Wigan	April 13th	April 14th	April 16th 1-30 p.m.	June 2nd	Passed through Wigan night and morning to Bear's Head. Went round Orrell infected area on April 5th, collecting for church purposes. Not so well at the time.	Vaccination 2 1/2 in. childhood Disease confluent on face Discreet on legs Ordinary	House fumigated, bed, bolster, pillow & blanket destroyed; clothes stoved House linewashed Three living rooms, cellar and three bedrooms
John Winstanley ... 12, Sandon Street	34	Collier, Queen Pit, Pemberton	April 13th	April 16th	April 16th 3 p.m.	June 10th	Went fishing to Melling Locks, Newburgh, on April 4th. Acted as steward for Friendly Society, and took notices round infected area in Orrell, about April 3rd. Member of fishing club held in Orrell near infected area	Vaccination 2 1/2 in. childhood Disease discreet	House fumigated; beds, bolsters and pillow destroyed; clothes stoved House linewashed Two living and two bedrooms



Name and Address of Patient	Age	Occupation	Date taken ill	Broken out	Admitted	Hospital Discharged	Cause of Infection	Disease and Vaccination	Disinfection, &c.
Matthew Darbyshire, 6, Church Street	31	Collier, Worsley Mesnes Colliery	April 14th	April 17th	April 17th 2-30 p.m.	June 10th	M. A. Cartwright in house frequently during her incubation period, and even when feeling not so well Member of fishing club near Orrell infected area	Vaccination 3- $\frac{1}{2}$ in. childhood Disease confluent	House fumigated, bed, bolster and pillows des- troyed; clothes stored House limewashed Two living and two bed- rooms
Sarah Ann Marsh 111, Little Lane	19	Seamstress, Coop & Co., Wigan	April 27th	April 29th	May 2nd 4 p.m.	June 2nd	Sister to Zechariah Clark Living in same house	Vaccination 3- $\frac{1}{2}$ in. childhood Re-vaccinated April 13th, did not rise Disease discreet	House fumigated; clothes stored Two beds and pillows destroyed
Ann Wiswall 2, Cuthbert Street	26	Married Woman	May 4th	May 5th	May 7th 5-30 p.m.	June 2nd	Went to a wedding at Marsh Green about a fort- night previously, where there was many also from Wigan	Vaccination 3- $\frac{1}{2}$ in. childhood Disease discreet	House fumigated; bedding and clothes stored; pillow and bolster destroyed House limewashed; living room and one bedroom
Alice Gee 764, Ormskirk Road	56	Married Woman	May 25th	May 30th	June 1st 9 p.m.	June 27th	Helped to lay out nephew supposed to have died from small-pox in Orrell on May 15th. Complained of getting bad smell	Unvaccinated Disease discreet Few	House fumigated; bed and clothing stored House limewashed Mattresses destroyed; two living and two bedrooms
Richard Moorfield 673, Ormskirk Road	15	Works down Queen Pit Pemberton	May 30th	June 1st	June 2nd 11 p.m.	June 16th	Companion of R. Darbyshire's son, and been to house	Vaccination 4- $\frac{1}{2}$ in. childhood Disease flat Modified	House fumigated; three living and three bedrooms



Name and Address of Patient	Age	Occupation	Date taken ill	Broke out	Hospital		Cause of Infection	Disease and Vaccination	Disinfection, &c.
					Admitted	Discharged			
John Marsden 184, Poolstack Lane (Lodger)	21	Drawer, Crippins' Colliery	May 26th	June 1st	June 2nd 4 p.m.	July 4th	Went fishing at Fazackerley, May 11th. Keeps company with daughter of assistant in garden, &c., at small-pox hospital	Vaccination marks 4- $\frac{1}{2}$ in. childhood Disease discreet	House fumigated; clothing stored; bed, pillow, bolster and mattresses destroyed House linewashed; two living and two bedrooms
Martha Aspinall 764, Ormskirk Road	39	Married Woman	June 9th	June 10th	June 10th	July 29th	Living with Geo's in same room as her mother Refused vaccination, and kept out of the way	Vaccination marks 1- $\frac{1}{2}$ in. " 1- $\frac{1}{2}$ in. childhood Disease ordinary	House fumigated; clothing stored; bed & mattresses, bolster and two pillows destroyed
Ann White 722, Ormskirk Road	17	At home	June 13th	June 16th	June 17th 8 p.m.	July 29th	Visited 764, Ormskirk Road, during illness of Mrs. Gee and her daughter Refused vaccination	Vaccination marks 1- $\frac{1}{2}$ in. childhood Disease discreet	House fumigated and lime- washed; clothing stored; bed and pillow destroyed. Public mangle in this house and all the clothes passed through for several days previous were disinfected Two living & two bedrooms
Mary Baybutt	46	At home	June 19th	June 22nd	June 23rd	Died July 2nd, 1903. Interred at Lamborhough Green, July 3rd	Visited by nephew, who lived in same row as Nos. 10 & 12, and had been in the infected house. He not being well at the time of visit to his aunt	Vaccination marks 1- $\frac{1}{2}$ in. Disease confluent	House fumigated; bed and mattresses destroyed Clothing stored

R. Martley

