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BOROUGH OF DARWEN.

REPORT

—OF—

F. G. HAWORTH,

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

MEDICAL OFFICER OF HEALTH,

Medical Officer of the Education Committee,

POLICE SURGEON.

FOR THE

Year ending December 31st, 1907.

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BOROUGH OF DARWEN

REPORT

F. G. HAWORTH

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POLICE SURGEON

Year ending December 31st 1907

Darwen

Printed by the Borough Engineer, Darwen

1908



VALE HOUSE, DARWEN,

FEBRUARY, 1908.

**TO THE CHAIRMAN AND MEMBERS OF THE
HEALTH COMMITTEE.**

GENTLEMEN,

I have the honour to present to you my Thirteenth Annual Report, being
for the Year ending December 31st, 1907.

I am, Gentlemen,

Your obedient Servant,

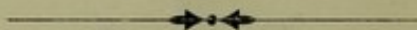
F. G. HAWORTH,

Medical Officer of Health,

Darwen Urban Sanitary Authority.

Members of the Health Committee

1907—1908.



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MEDICAL OFFICER OF INFECTIOUS DISEASES HOSPITAL.....F. G. HAWORTH.

METEOROLOGY.

These figures are again included in my Annual Report. It seems a pity the Charts which I inserted on the institution of the Observatory, by the late Councillor Gillibrand, have not been kept up owing to the cost, as they would have formed a continuous and interesting record. The figures are still recorded, and have been of great value to me in my recent evidence before the Royal Commission on "Steaming in Weaving Sheds."

JANUARY.

BAROMETER :—	Mean, 29.465 inches. Highest, 30.125 inches on the 23rd. Lowest, 28.225 inches on the 2nd.
Air Temperature :—	Mean of Maxima, 42.1 deg. Highest of Maxima, 48.0 deg. on the 2nd. Mean of Minima, 32.7 deg. Lowest of Minima, 16.5 deg. on the 25th and 26th. Mean for the Month, 37.4 deg.
Earth Temperature :—	At 1ft. depth mean 37.2 deg. } „ 4ft. „ „ 41.3 deg. „ 10ft. „ „ 45.5 deg.
Dew Point Temperature :—	Mean, 34.3 deg. Highest, 45.8 deg. on the 5th. Lowest, 13.8 deg. on the 23rd.
Humidity (percentage) :—	Mean, 89 deg. Highest, 99 deg. on the 5th, 10th, 12th, 16th & 21st. Lowest, 57 deg. on the 23rd.
Sunshine :—	Recorded on 14 days. Total duration 34.12 hours. Daily average 1.10 hours. Highest 6.50 hours on the 30th.
Rain :—	Recorded on 17 days. Total fall 2.09 inches. Daily average 0.06 inches. Greatest fall 0.39 inches on the 1st.

Wind :—The following is a Summary of Observations of direction.

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
1	1	3	2	5	23	25	3

Cloud :— Mean amount (an overcast sky being indicated by 10.0) 8.0.

Of the 62 Observations (taken at 9 a.m and 9 p.m) more or less cloud was to be seen at the time of each Observation, and at the time of taking 42 of these Observations the sky was overcast.

FEBRUARY,

Barometer :— Mean, 29.164 inches.
Highest, 29.730 inches on the 28th.
Lowest, 28.037 inches on the 20th.

Air Temperature :— Mean and Maxima, 38.6 deg.
Highest of Maxima, 51.0 deg; on the 15th.
Mean of Minima, 29.7 deg..
Lowest of Minima, 20.0 deg. on the 23rd.
Mean for the month, 34.1.

Earth Temperature :— At 1ft. depth, mean 35.3 deg.
At 4 ft. depth, mean 39.0 deg.
At 10 ft. depth, mean 44.0 deg.

Dew Point Temperature :— Mean, 31.4 deg.
Highest, 45.6 deg. on the 15th.
Lowest, 14.7 deg. on the 23rd.

Water Temperature :— Mean, 39.9 deg.
Highest, 42.2 deg. on the 18th.
Lowest, 36.0 deg. on the 16th.

Humidity (percentage) :— Mean, 85.
Highest, 100 on the 9th.
Lowest, 57 on the 23rd.

Sunshine :— Recorded on 20 days.
Total duration, 65.44 hours.
Daily average, 2.33 hours.
Highest, 7.30 hours on the 27th.

Rain :— Recorded on 13 days
Total fall, 2.56 inches.
Daily average, 0.09 inches.
Greatest fall, 0.62 inches, on the 17th.

Wind :— Mean velocity in miles per hour, 14.
The maximum velocity was 62 miles per hour on the 20th, direction W.
Summary of Observations of Direction :—

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
1	1	1	0	19	10	15	8

Cloud :— Mean amount (an over-cast sky being indicated by 10.0) 6.8. Cloudless sky on one occasion at time of Observation, and at the time of taking 26 Observations the sky was overcast.

Mist or Fog :— On 1st to 11th, 14th to 19th, and 24th to 28th.

Ground Frost :— On 3rd, 5th, 6th, 7th, 12th, 14th, 21st, 22nd and 23rd.

Hoar Frost :— On 10th, 11th, 16th, 20th, 21st and 28th.

Snow on 9th, 12th, 20th. **Hail** on 24th **Gales of Wind** on 17th, 19th and 20th.

MARCH.

Barometer :— Mean, 29.303 inches
Highest, 29.694 inches on th 26th.
Lowest, 28.365 inches on the 16th.

Air Temperature :— Mean of Maxima, 46.7 deg.
Highest of Maxima, 62.0 deg. on the 29th.
Mean of Minima, 34.8 deg.
Lowest of Minima, 27.2 deg. on the 12th.
Mean for the month, 40.7 deg.

Earth Temperature :— Mean at 1 ft. depth, 40.2 deg.
Mean at 4 ft. depth, 40.3 deg.
Mean at 10 ft. depth, 42.3 deg.

Dew Point Temperature :— Mean, 37.4 deg.
Highest, 48.0 deg. on the 27th.
Lowest, 27.9 deg. on the 12th.

Water Temperature :— Mean, 40.1 deg.
Highest, 43.0 deg. on the 29th and 30th.
Lowest, 38.0 deg. on the 5th.

Humidity (percentage) :— Mean, 85.
Highest, 99 on the 16th.
Lowest, 60 on the 31st.

Sunshine :— Recorded on 27 days.
Total duration 146.84 hours.
Daily Average, 4.73 hours.
Highest, 10.40 hours on the 31st.

Rain :— Recorded on 18 days
Total fall 4.90 inches.
Daily average 0.15 inches.
Greatest fall 1.00 inches on the 16th.

Wind :— Mean velocity in miles per hour, 13.

The maximum velocity was 68 miles per hour on the 17th. Direction W.

Summary of Observations of direction :—

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
1	0	0	1	14	14	27	5

Cloud :— Mean amount (an overcast sky being indicated by 10.0) 6.5.

There was a cloudy sky at the time of taking every Observation, and the sky was overcast at the time of taking 28 of the 62 Observations taken during the month.

Fog or Mist on 1st, 2nd, 4th, 5th, 6th, 7th, 8th, 9th, 10th, 11th, 12th, 13th, 14th, 15th, 16th, 18th, 20th, 25th, 26th, 27th. **Hoar Frost** on 4th, 6th, 9th, 11th, 21st, 23rd, 24th. **Snow** on 7th, 8th, 9th, 14th. **Hail** on 8th and 14th. **Gales of Wind** on 8th and 17th.

APRIL.

Barometer :—

Mean, 28.972 inches

Highest, 29.516 inches on the 24th.

Lowest, 28.351 inches on the 3rd.

Air Temperature :—

Mean and Maxima, 48.4 deg.

Highest of Maxima, 60.2 deg. on the 2nd.

Mean of Minima, 35.7 deg.

Lowest of Minima, 25.5 deg. on the 18th.

Mean for the month, 42.0 deg.

Earth Temperature :—

Mean at 1 ft. depth, 44.8 deg.

Mean at 4 ft. depth, 43.4 deg.

Mean at 10 ft. depth, 43.4 deg.

Dew Point Temperature :—

Mean, 38.5 deg.

Highest, 51.6 deg. on the 23rd.

Lowest, 26.5 deg. on the 18th.

Water Temperature :—

Mean, 42.5 deg.

Highest, 43.6 deg. on the 25th and 30th.

Lowest, 41.0 deg. on the 1st.

Humidity (percentage) :—

Mean, 84.

Highest, 99 on the 8th, 23rd and 27th.

Lowest, 56 on the 2nd.

Sunshine :—

Recorded on 26 days.

Total duration 106.11 hours.

Daily average, 3.53 hours.

Highest, 10.20 hours on the 1st.

Rain :— Recorded on 16 days.

Total fall 2.88 inches.

Daily average, 0.09 inches.

Greatest fall, 0.61 inches on the 6th.

Wind : Mean velocity in miles per hour, 14.

The Maximum velocity was 66 miles per hour on the 13th. Direction, N.E.

Summary of Observations of direction :—

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
2	9	3	8	5	9	14	10

Cloud :— Mean amount (an overcast sky being indicated by 10.0) 7.3. At the time of taking 23 of the 60 Observations during the month the sky was overcast, and on one occasion the sky was cloudless.

Mist or Fog on every day except 2nd, 13th, 15th, 18th and 20th. **Thunder and Lightening** on 2nd and 17th. **Gales of Wind** on 13th and 20th. **Ground Frost** on 18th. **Hoar Frost** on 5th, 19th, and 20th. **Hail** on 7th and 17th. **Snow** on 7th and 27th.

MAY

Barometer :—

Mean, 29.076 inches.

Highest, 29.531 inches on the 17th.

Lowest, 28.376 inches on the 2nd.

Air Temperatures :—

Mean or Maxima, 53.0 deg.

Highest of Maxima, 72.0 deg. on the 12th.

Mean of Minima, 40.5 deg.

Lowest of Minima, 32.0 on the 22nd.

Mean for the month, 46.7 deg.

Earth Temperature :—

Mean at 1 ft. depth, 49.3 deg.

Mean at 4 ft. depth, 46.5 deg.

Mean at 10 ft. depth, 44.4 deg.

Dew Point Temperature :—

Mean, 42.5 deg.

Highest, 55.6 deg. on the 12th.

Lowest, 31.0 deg. on the 19th.

Water Temperature :—

Mean, 45.7 deg.

Highest, 51.9 deg. on the 13th.

Lowest, 40.0 deg. on the 3rd.

Humidity (percentage) :—

Mean, 81.

Highest, 99 on the 7th.

Lowest, 56 on the 19th.

Sunshine :— Recorded on 24 days.
 Total duration, 94.27 hours.
 Daily average, 3.04 hours.
 Highest, 9.15 hours on the 29th.

Rain :— Recorded on 24 days.
 Total fall, 5.18 inches.
 Daily average, 0.16 inches.
 Greatest fall, 0.77 inches on the 31st.

Wind :— Mean velocity in miles per hour, 12.
 The Maximum velocity was 56 miles per hour on the 2nd ; direction W.
 Summary of Observations of direction :—

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
1	12	3	7	18	5	10	6

Cloud :— Mean amount (an overcast sky being indicated by 10.0) 8.0. At the time of taking 32 of the 62 Observations during the month the sky was overcast, and cloudy at the time of taking every Observation.

Mist or Fog on every day except 5th, 13th, 16th, 21st, and 29th. **Gales of Wind** on 2nd and 3rd. **Thunder and Lightning** on 12th and 24th. **Hoar Frost** on 18th and 22nd. **Snow** on 2nd. **Hail** on 2nd.

JUNE.

Barometer :— Mean, 28.998 inches.
 Highest, 29.362 inches on the 17th.
 Lowest, 28.695 inches on the 1st.

Air Temperatures :— Mean of Maxima, 55.5 deg.
 Highest of Maxima, 71.0 deg. on the 9th.
 Mean of Minima, 45.0 deg.
 Lowest of Minima, 37.2 deg. on the 25th.
 Mean for the month, 50.20.

Earth Temperatures :— Mean at 1 ft. depth, 53.7 deg.
 Mean at 4 ft. depth, 50.4 deg.
 Mean at 10 ft. depth, 46.9 deg.

Dew Point Temperature :— Mean, 47.9 deg.
 Highest, 57.8 deg. on the 19th.
 Lowest, 37.0 deg on the 2nd.

Water Temperature :— Mean, 51.0 deg.
 Highest, 53.7 deg. on the 29th.
 Lowest, 46.0 deg. on the 3rd.

Humidity (percentage) :— Mean, 87.

Highest, 99 on the 3rd 4th, 5th, 6th, 23rd and 24th,.

Lowest, 70 on the 11th and 22nd.

Sunshine :—

Recorded on 25 days.

Total duration, 94.33 hours.

Daily average, 3.14 hours.

Highest, 9.40 on the 22nd.

Rain :—

Recorded on 27 days.

Total fall 10.03 inches.

Daily average, 0.33 inches.

Greatest fall 1.54 inches on the 5th.

Wind :— Mean velocity in miles per hour, 11. The Maximum velocity was 49 miles per hour on the 3rd ; direction W.

Summary of Observations of direction :—

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
1	2	1	1	24	4	26	1

Cloud :— Mean amount (an overcast sky being indicated by 10.0) 8.8. At the time of taking 41 of the 60 Observations during the month, the sky was overcast and cloudy at the time of taking every Observation.

Mist or Fog on 1st, 2nd, 3rd, 4th, 5th, 6th, 8th, 9th, 14th, 15th, 16th, 18th, 20th, 26th, and 27th. **Hail** on 3rd. **Thunder and Lightning** on 9th, and 12th.

JULY.

Barometer :—

Mean, 29.224 inches.

Highest, 29.790 inches on the 11th.

Lowest, 28.784 inches on the 4th.

Air Temperatures :—

Mean of Maxima, 60.5 deg.

Highest, of Maxima 79.1 deg. on the 18th.

Mean of Minima, 48.0 deg.

Lowest of Minima, 38.5 deg. on the 1st.

Mean for the month, 54.2 deg.

Earth Temperature :—

Mean at 1 ft. depth, 57.7 deg.

Mean at 4 ft. depth, 53.4 deg.

Mean at 10 ft. depth, 49.4 deg.

Dew Point Temperature :—

Mean, 50.8 deg.

Highest, 59.8 deg. on the 26th.

Lowest, 39.3 deg. on the 7th.

Water Temperature :— Mean, 54.7 deg.
Highest, 59.3 deg. on the 21st.
Lowest, 50.0 deg. on the 5th, 8th and 9th.

Humidity (percentage) :— Mean, 84.
Highest, 99 on the 26th and 28th.
Lowest, 64 on the 18th.

Sunshine :— Recorded on 28 days.
Total duration, 156.43 hours.
Daily average, 5.04 hours.
Highest, 14.25 hours on the 17th.

Rain :— Recorded on 21 days.
Total fall, 4.49 inches.
Daily average, 0.14 inches.
Greatest fall, 1.59 inches on the 22nd.

Wind :— Mean velocity in miles per hour, 7. The maximum velocity was 36 miles per hour on the 7th; direction N.W.
Summary of Observations of direction :—

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
2	4	4	5	18	7	17	5

Cloud :— Mean amount (an overcast sky being indicated by 10.0) 7.0. At the time of taking 25 of the 62 Observations during the month the sky was overcast and cloudless at the time of taking 7 of the Observations

Mist or Fog on 1st, 8th, 9th, 13th, 15th, 20th, 21st, 22nd, 24th, 25th, 26th, 27th, 29th and 30th. **Hail** on 4th. **Thunder and Lightning** on 4th, 5th, 21st and 22nd.
Dew on 18th, 19th, 21st and 23rd.

AUGUST.

Barometer :— Mean, 29.209 inches.
Highest, 29.592 inches on the 21st.
Lowest, 28.844 inches on the 15th.

Air Temperatures :— Mean of Maxima, 59.2 deg.
Highest of Maxima, 67.0 deg; on the 4th and 13th.
Mean of Minima, 47.1 deg.
Lowest of Minima, 41.0 deg. on the 30th.
Mean for the month, 53.1 deg.

Earth Temperatures :— Mean at 1 ft. depth, 57.2 deg.
Mean at 4 ft. depth, 55.0 deg.
Mean at 10 ft. depth, 51.3 deg.

Dew Point Temperature :— Mean, 50.5 deg.
Highest, 59.8 deg. on the 4th.
Lowest, 42.8 deg. on the 30th.

Water Temperature :— Mean, 54.9 deg.
Highest, 57.3 deg. on the 14th.
Lowest, 50.0 deg. on the 20th.

Humidity (percentage) :— Mean, 86.
Highest, 99 on the 14th and 16th.
Lowest, 65 on the 28th.

Sunshine :— Recorded on 29 days.
Total duration, 120.86 hours.
Daily average, 3.89 hours.
Highest, 9.25 hours on the 30th.

Rain :— Recorded on 23 days.
Total fall, 6.19 inches.
Daily average, 0.19 inches.
Greatest fall, 1.19 inches on the 8th.

Wind :— Mean velocity in miles per hour, 10. The maximum velocity was 39 miles per hour on the 8th ; direction W.

Summary of Observations of direction :

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
1	0	0	0	8	8	40	5

Cloud :— Mean amount (an overcast sky being indicated by 10.0) 7.6. At the time of taking 28 of the 62 Observations during the month the sky was overcast and cloudy at the time of taking every Observation.

Mist or Fog on 3rd, 8th, 9th, 13th, 14th, 15th, 16th, 17th, 19th, 20th, 21st, 24th, 26th, 29th, 30th and 31st. **Dew** on 2nd. **Thunder and Lightning** on 6th.

SEPTEMBER.

Barometer :— Mean, 29.327 inches.
Highest, 29.711 inches on the 9th.
Lowest, 28.672 inches on the 2nd.

Air Temperatures :— Mean of Maxima, 61.3 deg.
Highest of Maxima, 69.5 deg. on the 10th.
Mean of Minima, 46.1 deg.
Lowest of Minima, 36.2 deg. on the 4th.
Mean for the month 53.7

- Earth Temperatures :—** Mean at 1 ft. depth, 55·9 deg.
Mean at 4 ft. depth, 54·6 deg.
Mean at 10 ft. depth, 52·1 deg.
- Dew Point Temperature :—** Mean, 50·0 deg.
Highest, 57·9 deg. on the 26th and 27th
Lowest, 35·1 deg on the 3rd.
- Water Temperature :—** Mean, 53·1 deg.
Highest, 55·0 deg. on the 18th and 19th.
Lowest, 50·0 deg. on the 4th.
- Humidity (percentage) :—** Mean, 82.
Highest, 99 on the 18th and 19th.,
Lowest, 56 on the 10th.
- Sunshine :—** Recorded on 29 days.
Total duration, 118·50 hours.
Daily average, 3·95 hours.
Highest, 9·50 on the 10th and 11th.
- Rain :—** Recorded on 8 days.
Total fall 1·64 inches.
Daily average, 0·05 inches.
Greatest fall 0·62 inches on the 5th.
- Wind :—** Mean velocity in miles per hour, 7. The Maximum velocity was 39 miles per hour on the 2nd ; direction W.
Summary of Observations of direction :—
- | N. | N.E. | E. | S.E. | S. | S.W. | W. | N.W. |
|----|------|----|------|----|------|----|------|
| 1 | 4 | 0 | 10 | 15 | 7 | 16 | 7 |
- Cloud :—** Mean amount (an overcast sky being indicated by 10·0) 6·3. At the time of taking 22 of the 60 Observations during the month, the sky was overcast and cloudy at the time of taking every Observation.
- Mist or Fog** on 3rd, 8th, 12th, 13th, 15th, 16th, 17th, 18th, 19th, 20th, 21st 22nd, 23rd, 24th, 25th, 26th, 27th, 29th and 30th. **Hoar Frost** on 8th and 11th
Thunder and Lightning on 26th.

OCTOBER.

- Barometer :—** Mean, 28·828 inches.
Highest, 29·269 inches on the 4th.
Lowest, 28·287 inches on the 15th.

Air Temperatures :— Mean of Maxima, 51·5 deg.
Highest, of Maxima 61·7 deg. on the 4th.
Mean of Minima, 41·5 deg.
Lowest of Minima, 32·0 deg. on the 8th.
Mean for the month, 46·5 deg.

Earth Temperature :— Mean at 1 ft. depth, 49·4 deg.
Mean at 4 ft. depth, 52·0 deg.
Mean at 10 ft. depth, 51·8 deg.

Dew Point Temperature :— Mean, 45·0 deg.
Highest, 55·8 deg. on the 6th.
Lowest, 34·9 deg. on the 15th.

Water Temperature :— Mean, 47·6 deg.
Highest, 53·0 deg. on the 2nd.
Lowest, 42·0 deg. on the 28th.

Humidity (percentage) :— Mean, 92.
Highest, 99 on the 1st, 5th, 6th, 20th, 26th and 30th.
Lowest, 75 on the 9th.

Sunshine :— Recorded on 22 days.
Total duration, 68·48 hours.
Daily average, 2·20 hours.
Highest, 7·75 hours on the 4th.

Rain :— Recorded on 22 days.
Total fall, 4·53 inches.
Daily average, 0·14 inches.
Greatest fall, 0·47 inches on the 17th.

Wind :— Mean velocity in miles per hour, 10. The maximum velocity was 46 miles per hour on the 17th ; direction S.E.
Summary of Observations of direction :—

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
0	6	2	15	23	5	7	4

Cloud :— Mean amount (an overcast sky being indicated by 10·0) 7·2. At the time of taking 34 of the 62 Observations during the month the sky was overcast and cloudy at the time of taking every Observation.

Mist or Fog on every day except 3rd, 9th, 12th, 13th, 16th, 20th and 22nd. **Hoar Frost** on 3rd, 4th, 8th, 9th, 16th, 24th, 25th, 27th and 28th. **Thunder and Lightning** on 10th.

NOVEMBER.

- Barometer :—** Mean, 29·154 inches.
Highest, 29·666 inches on the 30th.
Lowest, 28·349 inches on the 26th.
- Air Temperatures :—** Mean of Maxima, 45·7 deg.
Highest of Maxima, 55·7 deg. on the 2nd.
Mean of Minima, 36·9 deg.
Lowest of Minima, 26·8 deg. on the 26th.
Mean for the month, 41·3 deg.
- Earth Temperatures :—** Mean at 1 ft. depth, 43·9 deg.
Mean at 4 ft. depth, 47·7 deg.
Mean at 10 ft. depth, 50·4 deg.
- Dew Point Temperature :—** Mean, 39·7 deg.
Highest, 49·4 deg. on the 3rd.
Lowest, 25·7 deg. on the 25th.
- Water Temperature :—** Mean, 42·6 deg.
Highest, 47·0 deg. on the 3rd.
Lowest, 35·0 deg. on the 26th.
- Humidity (percentage) :—** Mean, 90.
Highest, 99 on the 5th, 8th, 14th and 17th.
Lowest, 55 on the 10th.
- Sunshine :—** Recorded on 15 days.
Total duration, 43·17 hours.
Daily average, 1·44 hours.
Highest, 6·03 hours on the 15th.
- Rain :—** Recorded on 22 days.
Total fall, 4·06 inches.
Daily average, 0·13 inches.
Greatest fall, 1·06 inches on the 23rd.
- Wind :—** Mean velocity in miles per hour, 12. The maximum velocity was 48 miles per hour on the 3rd ; direction E.S.E.
Summary of Observations of direction :
- | N. | N.E. | E. | S.E. | S. | S.W. | W. | N.W. |
|----|------|----|------|----|------|----|------|
| 3 | 0 | 5 | 11 | 24 | 4 | 5 | 8 |
- Cloud :—** Mean amount (an overcast sky being indicated by 10·0) 8·4. At the time of taking 39 of the 60 Observations during the month the sky was overcast and cloudy at the time of taking every Observation.
- Mist or Fog** every day during the month. **Gales of Wind** on 3rd and 22nd. **Snow** on 23rd, 24th and 26th. **Hail** on 23rd and 24th. **Ground Frost** on 18th, 25th, 29th and 30th. **Hoar Frost** on 22nd. **Thunder and Lightning** on 23rd.

SUMMARY OF METEOROLOGICAL OBSERVATIONS.

MONTH.	Barometer			Air Temperature					Earth Temperature			Dew Point Temperature			Water Temperature			Humidity			Sunshine				Rainfall				Mean Velocity		Maximum Velocity		Wind							
	Mean	Highest	Lowest	Mean of Maxima	Height of Maxima	Mean of Minima	Lowest of Minima	Mean for Month	1 Ft. Mean	4 Ft. Mean	10 Ft. Mean	Mean	Highest	Lowest	Mean	Highest	Lowest	Mean	Highest	Lowest	No. of Days recorded	Total Duration (hours)	Daily Average	Highest	No. of Days recorded	Total Fall (inches)	Daily Average	Greatest Fall					Direction							
																													N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.				
January	29.465	30.125	28.225	42.1	48.0	32.7	16.5	37.4	37.2	41.3	45.5	34.3	45.8	13.8	...	...	...	89	99	57	14	34.12	1.10	6.50	17	2.09	0.06	0.39	...	...	...	1	3	2	5	23	25	3
February	29.164	29.730	28.037	38.6	51.0	29.7	20.0	34.1	35.3	39.0	44.0	31.4	45.6	14.7	39.9	42.2	36.0	85	100	57	20	65.44	2.33	7.30	13	2.56	0.09	0.62	14	62	2	1	1	...	19	10	15	8		
March	29.303	29.694	28.365	46.7	62.0	34.8	27.2	40.7	40.2	40.3	42.3	37.4	48.0	27.9	40.1	43.0	38.0	85	99	60	27	146.84	4.73	10.40	18	4.90	0.15	1.00	13	68	1	...	...	1	14	14	27	5
April	28.972	29.516	28.351	48.4	60.2	35.7	25.5	42.0	44.8	43.4	43.4	38.5	51.6	26.5	42.5	43.6	41.0	84	99	56	26	106.11	3.53	10.20	16	2.88	0.09	0.61	14	66	2	9	3	8	5	9	14	10		
May	29.076	29.531	28.376	53.0	72.0	40.5	32.0	46.7	49.3	46.5	44.4	42.5	55.6	31.0	45.7	51.9	40.0	81	99	56	24	94.27	3.04	9.15	24	5.18	0.16	0.77	12	56	1	12	3	7	18	5	10	6		
June	28.998	29.362	28.695	55.5	71.0	45.0	37.2	50.2	53.7	50.4	46.9	47.9	57.8	37.0	51.0	53.7	46.0	87	99	70	25	94.33	3.14	9.40	27	10.03	0.33	1.54	11	49	1	2	1	1	24	4	26	1		
July	29.224	29.790	28.784	60.5	79.1	48.0	38.5	54.2	57.7	53.4	49.4	50.8	59.8	39.3	54.7	59.3	50.0	84	99	64	28	156.43	5.04	14.25	21	4.49	0.14	1.59	7	36	2	4	4	5	18	7	17	5		
August	29.209	29.592	28.844	59.2	67.0	47.1	41.0	53.1	57.2	55.0	51.3	50.5	59.8	42.8	54.9	57.3	50.0	86	99	65	29	120.86	3.89	9.25	23	6.19	0.19	1.19	10	39	1	...	...	...	8	8	40	5
September	29.327	29.711	28.672	61.3	69.5	46.1	36.2	53.7	55.9	54.6	52.1	50.0	57.9	35.1	53.1	55.0	50.0	82	99	56	29	118.50	3.95	9.50	8	1.64	0.05	0.62	7	39	1	4	...	10	15	7	16	7		
October	28.828	29.269	28.287	51.5	61.7	41.5	32.0	46.5	49.4	52.0	51.8	45.0	55.8	34.9	47.6	53.0	42.0	92	99	75	22	68.48	2.20	7.75	22	4.53	0.14	0.47	10	46	...	6	2	15	23	5	7	4		
November	29.154	29.666	28.349	45.7	55.7	36.9	26.8	41.3	43.9	47.7	50.4	39.7	49.4	25.7	42.6	47.0	35.0	90	99	55	15	43.17	1.44	6.03	22	4.06	0.13	1.06	12	48	3	...	5	11	24	4	5	8		
December	28.905	29.520	27.936	41.0	50.0	34.1	29.0	37.5	38.8	43.3	48.0	36.7	48.8	28.6	38.0	43.5	34.8	91	100	61	12	17.08	0.55	2.91	20	5.86	0.18	0.98	16	64	...	5	2	12	23	9	9	2		
Totals	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	271	1065.63	...	...	231	54.41	...	...	...	...	14	44	24	72	196	105	211	64
Mean	29.135	29.625	28.410	50.3	62.3	39.3	30.2	44.8	46.9	47.2	47.5	42.1	53.0	29.8	46.4	49.9	42.1	86	99	61	22.26	88.80	2.91	8.55	19.2	4.53	0.14	0.90	11	52	1.2	3.7	2.0	6.0	16.3	8.7	17.6	5.3		

DECEMBER.

Barometer :— Mean, 28·905 inches.
Highest, 29·520 inches on the 24th.
Lowest, 27·906 inches on the 13th.

Air Temperatures :— Mean of Maxima, 41·0 deg.
Highest of Maxima, 50·0 deg; on the 8th.
Mean of Minima, 34·1 deg.
Lowest of Minima, 29·0 deg. on the 15th, 27th, 28th and 29th
Mean for the month, 37·5 deg.

Earth Temperatures :— Mean at 1 ft. depth, 38·8 deg.
Mean at 4 ft. depth, 43·3 deg.
Mean at 10 ft. depth, 48·0 deg.

Dew Point Temperature :— Mean, 36·7 deg.
Highest, 48·8 deg. on the 20th.
Lowest, 28·6 deg. on the 27th.

Water Temperature :— Mean, 38·0 deg.
Highest, 43·5 deg. on the 21st.
Lowest, 34·8 deg. on the 16th.

Humidity (percentage) :— Mean, 91.
Highest, 100 on the 28th.
Lowest, 61 on the 11th.

Sunshine :— Recorded on 12 days.
Total duration, 17·08 hours.
Daily average, 0·55 hours.
Highest, 2·91 hours on the 7th.

Rain :— Recorded on 20 days.
Total fall, 5·86 inches.
Daily average, 0·18 inches.
Greatest fall, 0·98 inches on the 8th.

Wind :— Mean velocity in miles per hour, 16. The maximum velocity was 64 miles per hour on the 14th; direction N.W.

Summary of Observations of direction :

N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
0	5	2	12	23	9	9	2

Cloud :— Mean amount (an overcast sky being indicated by 10·0) 8·8. At the time of taking 45 of the 62 Observations during the month the sky was overcast, and on one occasion the sky was cloudless.

Mist or Fog on every day except 5th, 6th, 25th, 26th and 28th. **Hoar Frost** on 1st, 6th, 12th and 24th. **Ground Frost** on 15th, 24th, 26th, 27th and 28th. **Hail** on 3rd, 4th, 5th and 6th. **Snow** on 7th, 8th and 27th. **Thunder and Lightning** on 5th. **Gales of Wind** on 8th, 9th, 10th, 14th 27th, and 28th.

Population

Estimated for the middle of the year at 41,864, is based on the natural increment as indicated from one census period to another. It would appear from the increase in new property that our estimate, when it comes to be confirmed by the next census taking, will probably be below the mark. It is better to come below than above, in order to avoid having to lower our figures.

	Ward Population.
CENTRAL	7,660
WEST-CENTRAL	4,061
NORTH-EAST	10,024
NORTH-WEST	5,670
SOUTH-EAST	6,995
SOUTH-WEST	7,454
	<hr/>
	41,864
	<hr/>

Births.

There were 431 Males and 445 Females born and registered during the year, making a total of 876. This gives a birth-rate of 20.92 per 1,000 of the population, and an increase of 1.22 per 1,000 over the previous year.

The average for the last 26 years is 27.70 per 1,000.

August gave the highest rate with 22.93 per 1,000, and November the lowest, with 17.48 per 1,000.

The highest annual rate was in 1883, when it was 34.39 per 1,000; and the lowest was in 1906, when it was 19.70 per 1,000.

ILLEGITIMATE BIRTHS.

There were 29 children born out of wedlock, at the rate of 3.31 per cent. of the total births.

The percentage of Midwifery cases attended by medical men was 44.97, being a decrease on the previous year of 1.39 per cent.

This is accounted for by the increasing number of Certificated Nurses who are practicing in the town.

TABLE I.

	NUMBER OF BIRTHS.			Rate per 1,000 Estimated Population
	Males.	Females.	Total.	
JANUARY	35	35	70	20.06
FEBRUARY	41	35	76	21.78
MARCH	34	43	77	22.07
APRIL	39	40	79	22.64
MAY	36	35	71	20.35
JUNE	35	37	72	20.63
JULY	35	43	78	22.35
AUGUST	48	32	80	22.93
SEPTEMBER	34	34	68	19.49
OCTOBER	36	35	71	20.35
NOVEMBER	26	35	61	17.48
DECEMBER	32	41	73	20.92
	431	445	876	20.92

TABLE II.

ILLEGITIMATE BIRTHS.

	Number.	Percentage of Births.
JANUARY	3	4.28
FEBRUARY	2	2.63
MARCH	4	5.19
APRIL	3	3.79
MAY	0	0.00
JUNE	3	4.16
JULY	1	1.28
AUGUST	2	2.50
SEPTEMBER	2	2.94
OCTOBER	3	4.22
NOVEMBER	1	1.63
DECEMBER	5	6.84
	29	3.31

TABLE III. gives the Estimated Populations, Number of Births, and the Birth-rates for the Darwen Sanitary District since 1882 inclusive.

TABLE III.

Year.	Estimated Population at the Middle of Each Year.	Total Births	Birth-rate.
1882	30,295	987	32.57
1883	30,733	1057	34.39
1884	31,360	978	31.18
1885	31,720	1015	31.99
1886	32,185	965	29.98
1887	32,491	1000	30.77
1888	33,500	994	29.67
1889	34,500	972	28.17
1890	36,500	1075	29.45
1891	34,192	1115	32.60
1892	35,000	1057	30.20
1893	35,500	955	26.90
1894	36,000	1039	28.86
1895	36,000	1128	31.33
1896	36,652	1032	28.15
1897	37,500	1114	29.70
1898	37,500	1131	30.16
1899	37,900	1062	28.02
1900	38,600	980	25.38
1901	38,212	858	22.45
1902	38,712	891	23.01
1903	39,114	941	24.05
1904	39,516	820	20.75
1905	39,918	818	20.49
1906	41,164	811	19.70
1907	41,864	876	20.92

Average for the last 26 years—27.72.

TABLE IV.

BIRTHS IN WARDS—1907.

	Central.		West-Central.		North-East.		North-West.		South-East.		South-West.		TOTAL.	
	M. F.		M. F.		M. F.		M. F.		M. F.		M. F.		M. F.	
January	2	4	7	4	10	9	5	2	3	10	8	6	35	35
February.....	6	6	3	3	7	9	8	2	9	11	8	4	41	35
March	9	5	1	8	10	10	6	11	0	5	8	4	34	43
April	0	7	3	4	10	10	9	6	6	7	11	6	39	40
May	9	7	3	2	7	6	7	2	5	7	5	11	36	35
June	5	7	9	5	11	8	4	4	3	3	3	10	35	37
July	9	1	3	7	9	11	3	9	6	6	5	9	35	43
August	8	5	2	2	16	5	5	5	11	7	6	8	48	32
September	4	0	5	4	10	10	5	8	3	10	7	2	34	34
October	3	3	2	4	11	9	6	4	8	7	6	8	36	35
November	6	10	1	6	4	8	4	4	6	3	5	4	26	35
December	4	4	5	3	10	12	5	10	4	4	4	8	32	41
	65	59	44	52	115	107	67	67	64	80	76	80	431	445
TOTAL	124		96		222		134		144		156		876	
Population	7,660		4,061		10,024		5,670		6,995		7,454		41,864	
Birth-rate	16.18		23.63		22.14		23.63		20.58		20.92		20.92	

TABLE V.

RETURN OF VACCINATION FOR DARWEN—1907.

MONTHS.	Success-ful Vaccination.	Deaths.	Insus-ceptible.	Ex-empted.	Post-poned.	Re-moved out of Town and Traced.	Re-moved and Cannot Trace	Unac-counted for
January	58	6	1	4	0	0	1	0
February.....	62	6	0	3	2	0	2	1
March	63	8	0	4	1	0	0	1
April	66	5	0	6	1	0	0	1
May	48	12	0	9	1	0	0	1
June	53	4	0	11	3	0	1	0
July.....	52	4	0	11	4	0	4	3
August	66	2	0	3	2	0	1	6
September	51	2	0	7	1	0	0	7
October	37	7	0	14	2	0	0	11
November	30	3	0	3	0	0	0	25
December	11	4	0	2	0	0	0	56
	597	63	1	77	17	0	9	112

Successfully Vaccinated for Quarter,	January, February, March.....	183
"	" " " " April, May, June.....	167
"	" " " " July, August, September.....	169
"	" " " " October, November, December.....	78
		<hr/> 597

It should be noted that children born at the end of the year, 1907, need not be vaccinated until June, 1908.

(Signed) A. H. E. STEPHENSON,

Vaccination Officer, Blackburn Union.

TABLE VI.

The following Table shows the number of Births and the percentage of these attended by Medical Men during the last ten years—

Years.	No. of Births.	Attended by Medical Men.	
		Number.	Percentage.
1898	1131	815	72.06
1899	1062	653	61.48
1900	980	540	55.10
1901	858	420	48.95
1902	891	401	45.00
1903	941	461	48.99
1904	820	421	51.34
1905	818	411	50.24
1906	811	376	46.36
1907	876	394	44.97

Marriages.

The number of Marriages solemnized in Darwen during the year ending December 31st, 1907, was as follows—

Church of England.....	195
Nonconformist Places of Worship.....	156
Total.....	<hr/> 351

This means that 702 people were united in the bonds of wedlock, and is at the rate of 16.76 per 1,000 of the population, as compared with 18.07 per 1,000 in the previous year.

The following Table will give the rates since the year 1882 inclusive—

TABLE VII.

Year.	Births.		Deaths.		Marriages.	
	Number.	Rate.	Number.	Rate.	Number.	Rate.
1882	987	32.57	650	21.45	490	16.0
1883	1057	34.39	518	16.85	478	15.5
1884	978	31.18	595	18.97	444	14.1
1885	1015	31.99	489	15.41	480	15.1
1886	965	29.98	641	19.91	540	16.7
1887	1000	30.77	716	22.03	558	16.6
1888	994	29.67	600	17.90	616	18.2
1889	972	28.17	544	15.76	570	16.5
1890	1075	29.45	673	18.43	586	16.0
1891	1115	32.60	660	19.30	648	18.7
1892	1057	30.20	641	18.31	670	19.1
1893	955	26.90	677	19.07	592	16.7
1894	1039	28.86	542	15.05	640	17.7
1895	1128	31.33	640	17.77	676	18.7
1896	1032	28.15	627	17.10	696	18.9
1897	1114	29.70	651	17.36	688	18.3
1898	1131	30.16	632	16.85	700	18.6
1899	1062	28.02	647	17.07	666	17.5
1900	980	25.38	789	20.44	532	13.7
1901	858	22.45	620	16.22	576	15.0
1902	891	23.01	569	14.69	606	15.6
1903	941	24.05	501	12.80	612	15.6
1904	820	20.75	606	15.33	606	15.3
1905	818	20.49	562	14.07	578	14.4
1906	811	19.70	540	13.11	744	18.0
1907	876	20.92	527	12.58	702	16.7
Average 26 years	987	27.72	609	17.07	603	16.6

Notification of Infectious Diseases.

The following were reported to me during the year—

Small Pox.....	1
Diphtheria	22
Erysipelas	14
Scarlet Fever.....	26
Typhoid Fever.....	21
Puerperal Fever.....	0
	<hr/> 84 <hr/>

CASES REPORTED IN—

	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907
Diphtheria	2	2	10	186	197	141	21	34	29	18	22
Croup	3	6	2	4	10	3	—	—	—	—	—
Erysipelas.....	56	35	31	27	34	15	17	35	49	17	14
Scarlet Fever ...	101	93	400	276	231	137	30	689	456	50	26
Typhoid Fever.....	41	43	55	33	21	34	15	20	28	17	21
Continued Fever	1	3	—	1	3	1	—	—	—	—	—
Puerperal Fever	12	10	7	4	1	3	2	5	5	4	0
Small Pox.....	—	—	—	—	—	3	27	2	—	—	1
Chicken Pox.....	—	—	—	—	—	—	32	—	—	—	—
	<hr/> 216 <hr/>	<hr/> 192 <hr/>	<hr/> 505 <hr/>	<hr/> 531 <hr/>	<hr/> 497 <hr/>	<hr/> 337 <hr/>	<hr/> 144 <hr/>	<hr/> 785 <hr/>	<hr/> 567 <hr/>	<hr/> 106 <hr/>	<hr/> 84 <hr/>

INFECTIOUS DISEASES NOTIFIED.—The total number of these cases reported has been diminishing since 1904, when the number was 785.

DIPHTHERIA.—Under this name is now included Croup. This complaint shows the slight increase of 4 over the previous year.

We exercise special supervision over Diphtheria in order to check, at the onset, any tendency to spread through the medium of contact in the schools. In my opinion this disease is especially a dangerous one from the above cause, and would be the better for more perfect isolation in hospital. The accommodation in the general

run of artizan dwelling in a manufacturing town, like our own, does not lend itself to the prevention of the spread of such a disease. Too often the sleeping rooms are insufficient in number to deal with the separation of numbers and sexes. The parents and older children have in most cases to go out to work, consequently any deprivation in the number of hours of sleep incapacitates them for work, and lowers the resisting power of their bodies.

ERYSIPELAS.—Fourteen cases were reported as compared with seventeen in the previous year. I am not in favour of this disease being notified. It does not give the return for the necessary expense.

SCARLET FEVER.—The number of cases notified as follows:—13 males and 13 females, total 26, as compared with 50 in the previous year. This probably constitutes the lowest point of the annual curve, since this year came in, and following on the period of latency we have taken extreme precautions to follow up all cases since reported, immediate isolation of the patients in Bull Hill Hospital, and careful supervision of the rest of the family, has resulted in preventing the few cases we have had during this year from spreading. In one instance we were instrumental in finding a source of infection in a peeling child, and in stopping any further imischief.

Now that I am appointed Medical Officer to the Schools I shall have an official status and recognition which will enable me to use such influence in checking the infectious diseases from spreading through these mediums. Undoubtedly they have been a prolific source of infection in the past. With the aid of Miss Glass I hope to do a good work.

The distribution was as follows:—

	Central.	West-Central.	North-East.	North-West.	South-East.	South-West.
Population	7660	4061	10024	5670	6995	7454
Number	6	3	3	8	4	2
Deaths.....	0	0	0	0	0	0
Death-Rate per 1,000.....	0.0	0.0	0.00	0.0	0.0	0.0

Table showing susceptible period:—

Under 1 year.	1 to 5.	5 to 15.	15 to 25.	25 to 65.	Total.
0.	4	15	5	2	26

TYPHOID FEVER.—There were 21 cases notified as against 17 in the preceeding year. The increase was due to one family being attacked in the Hollins Grove district, The initial case was traced to a probable source in some mussels eaten a short while before. I wrote the Medical Officer of the district from which the mussels had come, and he replied that all the beds had then been closed. In a newspaper paragraph it was stated that these same mussel beds were causing some uneasiness in the minds of the members of the district Council concerned. The Lord of the Manor gave permission to the Council to destroy these beds.

To confirm our suspicions we have had a few cases of Fever since reported, which have had their infection from a similar source.

Another matter has come to our notice in a probable source of infection in celery, a succulent vegetable very much in demand in this district. Celery is grown in very large quantities in the country surrounding Lancashire towns. It is carefully tended, and often manured with night soil. Should this night soil contain the germs of Typhoid it is easy to see, that unless the sticks of celery are very carefully washed or boiled, there is a danger in its use. So far we have not traced any specific case to its use. It is a matter requiring careful watching.

Deaths.

Return of the number of Infectious Diseases reported to the Medical Officer of Health during the year 1907, and the deaths from the diseases notified.—

	Cases Notified.	Deaths Registered.
Scarlet Fever	26	0
Diphtheria and Membraneous Croup.....	22	5
Typhoid Fever	21	4
Puerperal Fever.....	0	0
Erysipelas	14	0
Small Pox	1	1
	<hr/> 84	<hr/> 10

SCARLET FEVER.—Notified twenty-six ; deaths none.

DIPHTHERIA.—Notified, twenty-two ; deaths, five ; giving a death-rate of 22.7 per cent. of those attacked.

TYPHOID FEVER.—Twenty-one notified, with four deaths, giving a death rate of 19.0 per cent. of those attacked.

PUERPERAL FEVER.—None notified.

ERYSIPELAS.—Fourteen notified, or 3 less than in the previous year ; deaths none.

INQUESTS.—The Coroner held thirty-one enquiries, or 10 more than in the previous year.

CONSUMPTION.—Thirty-five deaths occurred, giving a rate of 0.83 per 1,000 of the population.

ZYMOTIC DEATH RATE.—0.69 per 1,000 of population.

TABLE VIII.

Population as per Census enumerated	Estimated Population to middle of year	Births.	Deaths from all causes.	Deaths under 1 year	Deaths 1 to 5	Deaths 5 to 15	Deaths 15 to 25	Deaths 25 to 60	Deaths 60 years and upwards
1881 29,747	1886 32,185	965	641	187	154	28	29	135	108
	1887 32,491	1000	716	188	139	60	35	174	120
	1888 33,500	994	600	154	113	32	33	145	118
	1889 34,500	972	544	149	90	16	31	161	107
	1890 36,500	1075	673	184	68	28	30	196	167
	1891 34,192	1115	660	168	115	32	26	193	126
	1892 35,000	1057	641	177	85	35	64	175	105
	1893 35,500	955	677	184	101	40	44	167	141
	1894 36,000	1039	542	130	67	17	46	174	108
	1895 36,000	1128	640	179	92	16	43	186	124
1891 34,192	1896 36,652	1032	627	187	102	17	26	163	132
	1897 37,500	1114	651	182	87	19	33	195	135
	1898 37,500	1131	632	199	79	22	27	174	131
	1899 37,900	1062	647	200	90	23	26	189	119
	1900 38,600	980	789	188	144	45	33	196	183
	1901 38,211	858	620	145	100	33	20	166	156
	1902 38,712	891	569	135	58	32	27	174	143
	1903 39,114	941	501	117	51	17	18	151	147
	1904 39,516	820	606	123	110	35	29	160	149
	1905 39,918	818	562	118	61	31	30	25 to 65 216	65 and upwards. 106
1901 38,212	1906 41,164	811	540	111	65	19	18	202	125
	1907 41,864	876	527	104	49	21	26	217	110

TABLE IX.

Death-rates per 1,000 of the Population in the various Wards of the Borough.

WARDS...	Central	West-Central	North-East—	North-West	South-East.	South-West	Death Rate per Month
Population...	7660	4061	10.024	5670	6995	7454	
1907.							
January	26.63	23.63	9.57	23.28	20.58	16.09	18.91
February.....	18.79	2.95	11.97	29.62	15.43	16.09	16.05
March	12.53	11.81	15.56	14.81	10.29	14.48	13.47
April	7.83	17.72	10.77	16.93	18.87	9.65	12.89
May	20.36	20.68	22.74	10.58	6.86	20.92	17.48
June	7.83	17.72	9.57	10.58	10.29	19.31	12.03
July.....	10.96	0.00	9.57	10.58	8.57	6.43	8.31
August	6.26	5.90	9.57	8.46	8.57	8.04	8.02
September	4.69	14.77	8.37	6.34	8.57	8.04	8.02
October	7.83	2.95	9.57	19.04	3.43	11.26	9.17
November	10.96	11.81	14.36	21.16	10.29	6.43	12.32
December	18.79	20.67	15.55	16.92	8.57	8.03	14.32
Average...	12.79	12.55	12.27	15.69	10.86	12.07	12.58

DEATHS FROM CONSUMPTION.

Tabes Mesenterica	0
Tubercular Meningitis.....	3
Tubercular Peritonitis.....	2
Phthisis Pulmonalis.....	35
Tubercular Disease of Testes.....	1
General Tuberculosis	2
	—
	43
	—

DEATHS OF PERSONS 65 YEARS AND UPWARDS.

Senile Decay.....	25
Bronchitis and Pneumonia.....	18
Heart Disease	12
Apoplexy	16
Injuries	0
Phthisis	0
All other causes.....	39
	<hr/> 110 <hr/>

TABLE X.—Bronchitis.

Deaths at the different age periods during the last fifteen years.

	Under 1 year.	1 to 5.	5 to 15	15 to 25	25 to 60	60 and upwards.	TOTAL.
1893.....	41	24	3	...	12	29	109
1894.....	27	20	...	...	7	17	71
1895.....	24	13	...	...	21	26	84
1896.....	36	28	...	...	10	20	94
1897.....	25	13	...	...	22	26	86
1898.....	22	12	...	...	10	21	65
1899.....	29	12	...	...	16	16	73
1900.....	18	7	...	...	20	36	81
1901.....	16	10	...	...	11	30	67
1902.....	19	8	1	...	7	22	57
1903.....	17	8	...	...	4	20	49
1904.....	8	10	...	...	11	19	48
					25 to 65	65 and upwards.	
1905.....	15	5	...	...	12	19	51
1906.....	16	5	...	...	11	23	55
1907.....	16	9	...	1	10	12	48
Total...	329	184	4	1	184	336	1038

TABLE XI.—Pneumonia.

Deaths at the different age periods during the last fifteen years.

	Under 1 year.	1 to 5.	5 to 15.	15 to 25	25 to 60	60 and upwards	Total.
1893.....	8	8	1	1	24	8	50
1894.....	5	4	1	...	19	4	33
1895.....	9	4	1	1	15	4	34
1896.....	9	9	2	...	17	3	40
1897.....	14	12	2	2	31	10	71
1898.....	11	13	3	...	18	8	53
1899.....	12	14	2	...	21	8	57
1900.....	20	28	3	1	25	11	88
1901.....	19	14	1	...	15	11	60
1902.....	16	12	2	2	28	4	64
1903.....	8	8	1	...	18	6	41
1904.....	13	19	1	...	15	5	53
						65 and upwards	
1905.....	12	12	6	...	13	4	47
1906.....	11	19	5	5	20	6	66
1907.....	18	16	3	2	17	6	62
	185	192	34	14	296	98	819

TABLE XII.—Phthisis.

Deaths at the different age periods during the last fifteen years.

	Under 1 year	1 to 5	5 to 15	15 to 25	25 to 60	60 and upwards	Total.
1893.....	...	...	...	...	35	4	39
1894.....	...	1	1	1	42	...	45
1895.....	...	...	...	...	34	4	38
1896.....	1	1	...	...	25	2	29
1897.....	...	...	...	...	26	1	27
1898.....	...	...	...	...	26	2	28
1899.....	...	...	1	2	26	2	31
1900.....	1	...	1	1	25	2	30
1901.....	...	...	1	2	23	3	29
1902.....	...	2	...	...	27	2	31
1903.....	...	...	1	1	18	2	22
1904.....	1	3	3	...	28	3	38
						65 and upwards	
1905.....	...	1	...	8	24	3	36
1906.....	...	...	1	2	16	...	19
1907.....	...	1	1	5	28	...	35
	3	9	10	22	403	30	477

TABLE XIII.

TOWNS.	SMALL POX.		SCARLET FEVER.		DIPHThERIA.		MENBRANE-NEOUS CROUP.	
	Num-ber.	Rate per 1000	Num-ber.	Rate per 1000	Num-ber.	Rate per 1000	Num-ber.	Rate per 1000
1. Hyde .....	...	...	245	7.47	14	0.42	3	0.09
2. Stockport	1	0.01	408	4.39	54	0.58	1	0.01
3. Macclesfield.....	...	...	67	1.93	47	1.35	1	0.02
4. Crewe .....	...	...	435	10.33	36	0.85	1	0.02
5. Chester.....	...	...	91	2.37	209	5.45	2	0.05
6. Birkenhead	1	0.00	293	2.64	211	1.90	15	0.13
7. Wallasey .....	...	...	250	4.66	94	1.75	...	...
8. Bootle .....	...	...	255	4.23	54	0.89	...	...
9. Liverpool	16	0.02	2745	3.89	914	1.29	21	0.02
10. Waterloo-with-Seaforth.....	1	0.04	98	4.24	23	0.99	...	...
11. St. Helens .....	...	...	204	2.41	189	2.23	4	0.04
12. Widnes.....	...	...	40	1.39	24	0.83	...	...
13. Southport .....	...	...	90	1.87	19	0.39	...	...
14. Ince-in-Makerfield .....	...	...	39	1.83	13	0.61	...	...
15. Wigan .....	...	...	174	2.11	66	0.80	...	...
16. Warrington .....	...	...	308	4.79	69	1.07	4	0.06
17. Leigh .....	...	...	252	6.29	25	0.62	2	0.04
18. Bolton .....	...	...	865	5.14	81	0.48	4	0.02
19. Bury.....	...	...	40	0.68	38	0.65	7	0.12
20. Heywood .....	...	...	35	1.37	11	0.43	...	...
21. Radcliffe .....	...	...	70	2.75	11	0.43	2	0.07
22. Eccles .....	...	...	184	5.35	30	0.87	...	...
23. Stretford .....	...	...	124	4.07	40	1.31	1	0.03
24. Swinton and Pendlebury .....	...	...	65	2.40	25	0.92	5	0.18
25. Gorton .....	...	...	381	14.34	10	0.37	2	0.07
26. Manchester	5	0.00	2931	4.83	514	0.84	53	0.08
27. Salford	8	0.03	10.44	4.72	370	1.67	16	0.07
28. Ashton-under-Lyne	8	0.18	285	6.49	5	0.11	...	...
29. Stalybridge .....	...	...	79	2.85	5	0.18	5	0.18
30. Chadderton .....	...	...	72	2.89	24	0.96	3	0.12
31. Middleton .....	...	...	44	1.74	44	1.62	9	0.35
32. Oldham .....	...	...	517	3.76	66	0.48	...	...
33. Rochdale	1	0.01	239	2.87	96	1.15	7	0.08
34. Accrington .....	...	...	86	1.99	41	0.95	3	0.06
35. Haslingden .....	...	...	24	1.29	41	2.21	3	0.16
36. Rawtenstall.....	...	...	86	2.76	9	0.28	...	...
37. Burnley .....	...	...	503	5.18	75	0.77	2	0.02
38. Colne .....	...	...	99	4.30	5	0.21	4	0.17
39. Nelson .....	...	...	104	3.16	35	1.06	...	...
40. Blackburn	2	0.01	537	4.15	144	1.11	4	0.03
41. Chorley .....	...	...	19	0.71	13	0.48	...	...
42. Preston .....	...	...	246	2.17	60	0.53	2	0.01
43. Blackpool .....	...	...	178	3.75	84	1.77	...	...
44. Fleetwood .....	...	...	40	3.31	5	0.41	...	...
45. Lancaster.....	...	...	55	1.36	15	0.37	...	...
46. Barrow-in-Furness .....	...	...	187	3.24	55	0.95	3	0.05
47. Darwen	1	0.02	26	0.68	22	0.57	...	...

TABLE XIII.

Number of Town	FEVERS.										CHOLERA.		ERYSIPELAS	
	TYPHUS.		TYPHOID.		CONTINUED.		RELAPSING.		PUERPERAL.		Num-ber.	Rate. per 1000	Num-ber.	Rate. per 1000
	Num-ber.	Rate. per 1000	Num-ber.	Rate. per 1000	Num-ber.	Rate. per 1000	Num-ber.	Rate. per 1000	Num-ber.	Rate. per 1000				
1	20	0.61	...	...	...	...	1	0.03	...	...	38	1.15
2	36	0.38	...	...	...	...	4	0.04	...	...	57	0.61
3	11	0.31	...	...	...	...	4	0.11	...	...	8	0.23
4	5	0.11	...	...	...	...	...	...	...	...	23	0.54
5	12	0.31	...	...	...	...	1	0.02	...	...	14	0.36
6	68	0.61	4	0.03	...	...	4	0.03	...	...	72	0.64
7	32	0.59	...	...	...	...	4	0.07	...	...	45	0.83
8	51	0.84	...	...	...	...	4	0.06	...	...	29	0.48
9	111	0.15	462	0.65	35	0.04	1	0.00	56	0.07	...	...	794	1.12
10	15	0.64	...	...	...	...	1	0.04	...	...	14	0.60
11	61	0.72	...	...	...	...	10	0.11	...	...	88	1.04
12	15	0.52	...	...	...	...	1	0.03	...	...	17	0.59
13	13	0.27	...	...	...	...	...	...	...	...	27	0.56
14	23	1.08	1	0.04	...	...	...	...	...	...	31	1.45
15	107	1.29	...	...	...	...	8	0.09	...	...	77	0.93
16	21	0.32	...	...	...	...	9	0.14	...	...	21	0.32
17	39	0.97	...	...	...	...	4	0.09	...	...	47	1.17
18	139	0.82	...	...	...	...	18	0.10	...	...	89	0.52
19	18	0.31	1	0.01	...	...	15	0.25	...	...	34	0.58
20	7	0.27	...	...	...	...	7	0.27	...	...	20	0.78
21	11	0.43	...	...	...	...	2	0.07	...	...	21	0.82
22	1	0.02	13	0.37	...	...	...	...	1	0.02	...	...	19	0.55
23	14	0.45	...	...	...	...	1	0.03	...	...	19	0.64
24	17	0.62	1	0.03	...	...	5	0.18	...	...	35	1.29
25	24	0.90	...	...	...	...	2	0.07	...	...	23	0.84
26	1	0.00	288	0.47	...	...	...	...	99	0.16	...	...	353	0.58
27	94	0.42	5	0.02	...	...	23	0.10	...	...	134	0.60
28	16	0.36	...	...	...	...	1	0.02	...	...	28	0.63
29	9	0.32	...	...	...	...	1	0.36	...	...	8	0.28
30	9	0.36	...	...	...	...	1	0.04	...	...	11	0.44
31	7	0.27	...	...	...	...	5	0.19	...	...	8	0.31
32	22	0.16	...	...	...	...	8	0.05	...	...	96	0.69
33	15	0.18	...	...	...	...	10	0.12	...	...	50	0.60
34	22	0.51	...	...	...	...	4	0.09	...	...	28	0.64
35	14	0.57	...	...	...	...	2	0.10	...	...	16	0.86
36	15	0.48	...	...	...	...	6	0.19	...	...	26	0.83
37	43	0.44	...	...	...	...	15	0.15	...	...	119	1.22
38	5	0.21	...	...	...	...	2	0.08	...	...	22	0.95
39	5	0.15	...	...	...	...	1	0.03	...	...	25	0.76
40	60	0.46	...	...	...	...	24	0.18	...	...	100	0.77
41	4	0.14	...	...	...	...	1	0.03	...	...	11	0.40
42	3	0.02	109	0.96	5	0.04	...	...	5	0.04	...	...	74	0.65
43	43	0.90	...	...	...	...	2	0.04	...	...	12	0.25
44	4	0.33	...	...	...	...	1	0.08	...	...	1	0.08
45	24	0.59	...	...	...	...	3	0.07	...	...	30	0.74
46	25	0.43	...	...	...	...	6	0.10	...	...	65	1.12
47	21	0.54	...	...	...	...	...	...	...	...	13	0.34

TABLE XIV.

NOTIFICATION OF INFECTIOUS DISEASES IN EACH WARD, AND FOR
EACH MONTH OF THE YEAR 1907.

1907. MONTHS.	CENTRAL				WEST- CENTRAL				NORTH- EAST.				NORTH- WEST.				SOUTH- EAST.				SOUTH- WEST.				BOROUGH					Total.								
	Small Pox.	Scarlet Fever.	Typhoid Fever.	Erysipelas.	Diphtheria.	Puerperal Fever.	Scarlet Fever.	Typhoid Fever.	Erysipelas.	Diphtheria.	Puerperal Fever.	Scarlet Fever.	Typhoid Fever.	Erysipelas.	Diphtheria.	Puerperal Fever.	Scarlet Fever.	Typhoid Fever.	Erysipelas.	Diphtheria.	Puerperal Fever.	Small Pox	Scarlet Fever.*	Typhoid Fever.	Erysipelas.	Diphtheria.	Puerperal Fever.											
JANUARY	1							1							1			1			2			1	3		4			8								
FEBRUARY	2								1				1							3				2	1	1	6			10								
MARCH		1	1											4											5	1				6								
APRIL	1	2					1	1	1			2					1			2			1	6	1	1	3			12								
MAY							1			1	1						1							3		1	1			5								
JUNE	1						1								1			1		1				4		2				6								
JULY																	1			1				1		2				3								
AUGUST									1	1														1	2	2				5								
SEPTEMBER										1																1					1							
OCTOBER				2														1							1		2				3							
NOVEMBER		1									1		4	1					1						4	4	1				9							
DECEMBER		1	1								1	2	1	2			1	1		2				4	4	4	4				16							
TOTALS	1	6	3	2	2		3	1	2	2		3	3	6	2		8	6	1	2			4	4	1	9		2	4	2	5	1	26	21	14	22	0	84

Infantile Mortality.

For many years now I have made this particular branch of Public Health the key note of my reports. The general Death-rate has been going steadily down owing to the vigorous measures taken in the direction of sanitary improvements. The rate under consideration last year reached the very low figure of 118 per 1000 births. There are two causes which have brought about this result. The first is what we may call a mechanical one, viz., the low birth rate giving us fewer children to succumb, and secondly the various steps which we have taken to deal directly with infants, one being the early Notification of Births Bill which came into force on the 1st January, and was optional, and put into operation on 16th March this year. This of course could not affect our rate for last year, but in anticipation of some such measure I have for some years, through the agency of the District Nursing Association, given particular instructions in the proper feeding of infants, and I honestly believe that these instructions are now bearing fruit.

To re-iterate these instructions :—A baby from birth should be fed on pure unmixed cows milk with 5 per cent. lime water and 5 per cent. sugar. A baby's stomach has a capacity of as many ounces as he is months old, or divide the age of the infant in weeks by two, this represents the number of tablespoons of food to be given at each feeding.

Regularity of feeding is a sine qua non of perfect health. This applies to babies of the average weight at birth, viz., $6\frac{1}{2}$ pounds.

To get greater accuracy it is necessary to know the weight of a child at each month. The stomach capacity at birth is $1/100$ of its body weight, during the second month $1/66$, third month $1/50$, fourth month $1/46$, fifth month $1/36$, and the sixth month $1/32$. With these figures at hand it is easy to compute the amount of food to be given during each month, whatever the weight of the child.

During the month of March I attended the second Conference on Infantile Mortality, at the Caxton Hall, London. The meeting was characterised by great enthusiasm and good work. There were many papers read and resolutions carried, with probably some useful recommendations to Parliament by the Executive Council.

Our present Mayor, Councillor George Pickup Holden, with a view to encouraging the mothers to take an interest in the early notification of births, and consequently in the after care of their babies is giving to each child born after a certain date, up to the end of his year of office, a cup on which is inscribed "A gift from the Mayor and Mayoress." His particular object was to give the Inspector a reason for calling at the house, and so making the duty somewhat lighter.

Early this year the Council appointed Miss Glass as "Lady Health Visitor." She entered on her duties on February 1st. When a birth is notified Miss Glass calls at the house, makes the usual inquiries, enters these in her visiting book, and gives instruction, where she thinks necessary, in the washing, dressing and feeding of babies. I may say these visits are mostly favourably received, at others they are somewhat resented.

The medical men in practice in the town opposed the adoption of the new Act for reasons taken pretty nearly all over the country, that such a duty should not be imposed, a possible penalty without a fee, as in the notification of infectious diseases. I agree with the objection, but I advised the Council on its adoption, as in my opinion good would come from it; and I was prepared to waive any objection for the good of the coming generations.

Miss Glass advises the course of feeding as outlined in this report.

Miss Glass also attends at the Health Office every Saturday afternoon to advise all mothers who may attend, and weigh the babies.

She also spends part of her time in visiting the schools, examines all the children, with a view to ascertaining the presence of vermin and the condition of their bodies and heads for skin diseases and nits. She prepares a report of these for me, and I then visit the children and make my examination.

There is no doubt about the results of the above measures being beneficial in reducing the infant death-rate. The result of sending out instructions on the *artificial* feeding of children, and the introduction of municipal milk shops, is to lessen the number of breast-fed infants, as the mothers look upon the instructions as being meant to replace mothers' milk giving it an official authority. For this reason it is not wise to encourage these milk shops, but to secure a purer and better milk supply from the farmers, by exercising supervision over the farms and dairies.

104 Infants died during the year.

This is at the rate of 118 per 1,000 Births.

2.48 per 1,000 of Population.

19.73 per cent. of total Deaths.

	Males.		Females.		Total.
Premature Birth	12	.....	6	.....	18
Convulsions	5	.....	4	.....	9
Bronchitis and Pneumonia	19	.....	15	.....	34
Diarrhœa	2	.....	1	.....	3
Whooping Cough	2	.....	2	.....	4
Inanition.....	5	.....	2	.....	7
Other Diseases	20	.....	9	.....	29
	<hr/> 65		<hr/> 39		<hr/> 104

	Males.		Females.		Total.
Diseases of the Respiratory System ...	20	.....	15	.....	35
Diseases of the Digestive System	15	.....	4	.....	19
Developmental Diseases	13	.....	6	.....	19
Diseases of the Nervous System.....	9	.....	9	.....	18
Zymotic Diseases	4	.....	3	.....	7
Infective Diseases	1	.....	0	.....	1
Diseases of the Urinary System	1	.....	0	.....	1
Inquests	1	.....	1	.....	2
Uncertified	1	.....	1	.....	2
	<hr/> 65		<hr/> 39		<hr/> 104

What is known as Infantile Mortality all over the country is the relation of deaths per annum of children under twelve months old to one thousand births for the same period.

The rate for Darwen is 118, somewhat lower than is usual, but yet much higher than it should be.

At least we should aim at keeping this Infantile Death-rate below 100 per 1,000 births, and consider every death above that as a preventable one, and, consequently, an unnecessary one.

PREMATURE BIRTH.—Eighteen prematurely born children died during the year, as compared with Eighteen in the previous year.

TUBERCULOR DISEASES (with the exception of the lungs) are due to the milk, and in every case the milk should be scalded before being used. We are trying to get our milk supply as good as possible. With careful attention to the animals I hope for better things.—See remarks on Farms.



GOVERNMENT TABLE V.

NAME OF DISTRICT—DARWEN.

INFANTILE MORTALITY DURING THE YEAR 1907.

Deaths from stated Causes in Weeks and Months under One Year of age—

CAUSE OF DEATH.	Under 1 Week	1-2 Weeks	2-3 Weeks	3-4 Weeks	Total under 1 m'nth	1-2 Months	2-3 Months	3-4 Months	4-5 Months	5-6 Months	6-7 Months	7-8 Months	8-9 Months	9-10 Months	10-11 Months	11-12 Months	Total Deaths under One Year
All Causes—																	
Certified	18	2	5	7	32	11	10	7	6	9	4	5	3	9	5	1	102
Uncertified	2				2												2
Common Infectious Diseases—																	
Small Pox																	
Chicken-pox																	
Measles																	
Scarlet Fever																	
Diphtheria: Including Memb. Croup.																	
Whooping Cough						1	1						1	1			4
Diarrhœal Diseases—																	
Diarrhœa, all forms						1	1		1								3
Enteritis, Muco-enteritis						1	1		1					1			4
Gastro-enteritis																	
Gastritis Gastro-intestinal Catarrh			1	1	2		1			1							4
Wasting Diseases—																	
Premature Birth	11	1	1	3	16	1	1										18
Congenital Defects	1	1	1	1	4												4
Injury at Birth																	
Want of Breast-milk, Starvation																	
Atrophy, Debility, Marasmus.....	5				5	1		1									7
Tuberculous Diseases—																	
Tuberculous Meningitis										1		1	1				3
Tuberculous Peritonitis																	
Tabes Mesenterica																	
Other Tuberculous Diseases																	
Other Causes—																	
Erysipelas																	
Syphilis																	
Rickets																	
Meningitis (not Tuberculous)										2				1			3
Convulsions			1	1	2	1		2			1	1		1	1		9
Bronchitis			1		1	3		4		2	1	1	1	2	1		16
Laryngitis																	
Pneumonia	1			1	2	1	3		1	3	1	2		2	2	1	18
Suffocation, overlying																	
Other Causes	2				2	1	2		3		1			1	1		11
	20	2	5	7	34	11	10	7	6	9	4	5	3	9	5	1	104

Population (estimated to middle of 1907)..... 41,864

Deaths in the year of—

Births in the year—

Legitimate Infants 99 Legitimate 847

Illegitimate Infants 5 Illegitimate..... 29

Deaths from all Causes at all ages..... 527

The list of children who have died during the year here appended, is in continuation of such information which has been in the report for two previous years.

On this occasion the information was obtained by Miss Glass owing to her appointment being made before the Notification of Births Bill came into operation. In previous years the Inspectors went round enquiring.

I am sorry to say when the Lady Health Visitor visited the houses some exception was taken by the Medical men, as they looked upon her action as being officious instead of official. I fully believe Miss Glass used her position as delicately as possible, and did everything not to hurt the parents' feelings.

The information is very valuable, as it enables us to see the weak points in the present day method of feeding. I do not say it is the feeding in all cases, as some of the children died from complaints with which feeding can have no direct influence, but one point is brought prominently forward, and that is the number of mothers who have gone back to work. Where breast feeding is indulged in this is an anomaly, as a woman must put the baby to the breast at regular intervals or the quality of the milk will be impaired.

Other infants were fed on mixed foods, partly breast and partly artificial. This is an impossible combination, unless the mother puts the child to the breast at the stated times, and makes up the deficiency with the bottle. By this means I believe good would accrue.

The question of adding water to cows milk comes to our notice. This, in my opinion, is altogether wrong. The proportion of fat along with the proteids is reduced, and enough care is not exercised to bring back the fat to its proper proportion. The absence of fat renders it an impossible food, and no doubt is a cause of so many children being weak and puny, and unable to withstand the attack of sickness.



Deaths of Infants during 1907, with Cause of Death and Method of Feeding.

No.	Date of Death	Age	Cause of Death	Kind of Bottle used	Kind of Food given	
1	Dec. 31, 1906	7 months	Bronchial Pneumonia	Bottle with long tubing	Tinned milk	
2	Jan. 18, 1907	4 months	Nephritis & Convulsions	None.	Breast-fed 3 months, for 1 month fed on mixture of whey, brandy, bovril and Barley water.	
3	Jan. 31st, 1907	3 months	Convulsions	Bottle with tubing	Milk and Water.	
4	Feb. 4, 1907	24 days.	Acute Gastritis.	Boat-shaped bottle.	Milk and water, equal parts.	
5	Feb. 27 1907	4 days	Convulsions.	None.	Breast-fed	
6	Feb. 15, 1907	25 weeks	Bronchitis & Convulsions.	Bottle with long tubing.	Breast-fed 3 months, prepared food.	
7	Jan. 3, 1907	5 months	Catarrhal Pneumonia.	Bottle with long tubing	Milk and prepared barley, breast.	
8	Jan. 19, 1907	4 months.	Epilepsy.	Bottle with long tubing	Breast first week, milk and water	Mother goes out to work.
9	Jan. 20, 1907	7 weeks	Broncho-Pneumonia & Convulsions	None.	Breast-fed.	
10	Jan. 23, 1907	1 month.	Hepatitis.	Boat-shaped bottle.	Milk and Barley water every 2 hours.	Mother goes out to work.
11	Feb. 1 1907	3 months	Want of breast-milk.	Boat-shaped bottle.	Milk and water, equal parts	Mother goes out to work.
12	Feb. 5, 1907	6 months	Convulsions.	Bottle with tubing.	Breast 3 months, milk and water, Milk and bread.	
13	Feb. 7, 1907	1 month	Premature birth	None.	Milk and water given with teaspoon.	Mother goes out to work.
14	Feb. 8, 1907	9 months	Meningitis	Boat-shaped bottle.	Milk and water, equal parts every 2 hours.	
15	Feb. 9, 1907	10 months	Friedreich's Ataxia.	None.	Breast-fed.	
16	Feb. 12 1907	8 months.	Whooping Cough.	Bottle with long tubing.	Prepared food.	
17	Feb. 16, 1907	3½ months	Bronchitis	None.	Breast-fed.	Mother goes out to work.
18	Feb. 20, 1907	3 months	Convulsions.	None.	Breast-fed 10 weeks, bread and milk 2 weeks.	Mother goes out to work.
19	Feb. 20, 1907	2 days.	Septic Pneumonia.	None.	None.	
20	Feb. 22, 1907	2 days	Premature birth	None;	None.	

Deaths of Infants during the year 1907, with Cause of Death and Method of Feeding—continued.

No.	Date of Death	Age	Cause of Death	Kind of Bottle used	Kind of Food given	
21	Feb. 25, 1907	1 month.	Bronchitis	Bottles with tubing.	Breast and bottle, milk and water, equal parts.	Mother goes out to work.
22	March 2, 1907	26 hours.	Inanition	None.	None.	Mother goes out to work.
23	March 2, 1907	5 months.	Acute Catarrhal Gastritis	None.	Breast for 6 weeks, bottle afterwards	Mother goes out to work.
24	March 4, 1907	6 months	(Inquest) Convulsions.	Bottle with tubing.	Breast 3 months, milk and water afterwards.	Mother goes out to work.
25	Mar. 11, 1907	14 days.	Gastritis.	Boat-shaped bottle.	Milk and lime water.	Mother goes out to work.
26	Mar. 9, 1907	2 months	Gastro Enteritis, Convulsions.	Bottles with tubing.	Breast and Bottle, milk and water, equal parts.	Mother goes out to work.
27	Mar. 9, 1907	2 months	Prematurity.	Boat-shaped bottle.	Malt food.	Mother goes out to work.
28	Mar. 15, 1907	2 days	Prematurity.	None.	None.	
29	Mar. 21, 1907	1 month	Marasmus	Boat-shaped bottle.	Milk and water, equal parts.	Mother goes out to work.
30	Mar. 27, 1907	3 days.	Inanition.	Bottle with tubing.	Milk, water, and lime water, prepared food.	Mother goes out to work.
31	Mar. 20, 1907	9 months	Broncho Pneumonia	Bottle with tubing.	Breast-fed 5 months, Barley water and milk, equal parts.	
32	Mar. 29, 1907	10 months	Teething and Convulsions.	Bottle with tubing.	Milk and water.	
33	Mar. 31, 1907	5 months	Meningitis.	None.	Breast-fed.	
34	April 3, 1907	18 days.	Prematurity.	None.	Milk and barley water with teaspoon.	
35	April 7, 1907	9 months	Teething, Bronchitis, and Convulsions	None.	Breast-fed.	Mother goes out to work.
36	April 10, 1907	2 months	Acute Intussusception	Boat-shaped bottle.	Milk and water, 1 part water, and 2 parts milk.	
37	April 14, 1907	2 days	Prematurity, Imperforate Anus.	None	None.	
38	April 16, 1907	5 months	Bronchitis, Convulsions.	Boat-shaped bottle.	Barley water and milk	
39	April 22, 1907	1 month	Convulsions.	None.	Breast-fed.	
40	April 26, 1907	6 months	Acute Bronchitis.	Boat-shaped bottle.	Milk, cream, and lime water.	Mother goes out to work.
41	April 27, 1907	4 months	Broncho Pneumonia.	Bottle with tubing.	Breast and milk, water and prepared food.	
42	May 7, 1907	6 hours.	Prematurity.	None.	None.	Mother goes out to work.
43	May 7, 1907	12 hours	Prematurity.	None.	None.	Mother goes out to work.
44	May 9, 1907	3 months	Convulsions.	Bottle with tubing	Milk and prepared food.	Mother goes out to work.
45	May 10, 1907	22 days	Convulsions.	None;	Breast-fed.	Mother goes out to work.
46	May 11, 1907	5 months	Meningitis.	Bottle with long tubing	Breast and prepared food.	

Deaths of Infants during the year 1907, with Cause of Death and Method of Feeding—continued.

No.	Date of Death	Age	Cause of Death	Kind of Bottle used	Kind of Food given	
47	May 11, 1907	9 months	Broncho Pneumonia.	Bottle with long tubing.	Milk and barley water.	Mother goes out to work.
48	May 12, 1907	4 months	Euteritis.	None.	Breast and rusks soaked in water and milk.	
49	May 17, 1907	4 days	Inanition	None.	Brandy and water given with spoon.	
50	May 17, 1907	15 days	Bronchitis and Convulsions.	None.	Breast fed.	Mother goes out to work.
51	May 20, 1907	3 months	Acute Bronchitis.	Bottle with tubing.	Breast, milk and Barley water, equal parts.	
52	May 22, 1907	5 months	Broncho Pneumonia.	Bottle with tubing.	Sterilised milk, lime water and sugar.	
53	May 24, 1907	5 weeks.	Enteritis.	None.	Breast-fed.	Mother goes out to work.
54	May 24, 1907	24 days	Congenital defect in colon	None.	Breast-fed.	
55	May 28, 1907	3 months	Euteritis and Convulsions	Boat-shaped bottle.	Breast-fed 10 weeks, Pure milk 2 weeks.	
56	May 29, 1907	2 days	Congenital Atelectasis	None.	None.	Mother goes out to work.
57	June 1, 1907	3 months	Acute Bronchitis.	Boat-shaped bottle.	Barley water and milk equal parts.	
58	June 2, 1907	8 months	Bronchitis.	Bottle with tubing.	Milk and water, equal parts.	
59	June 6, 1907	10 months	Catarrhal Pneumonia.	Bottle with long tubing.	Milk and barley water.	Mother goes out to work.
60	June 4, 1907	4 hours.	Uncertified.	None.	None.	Mother goes out to work.
61	June 7, 1907	5 months	Broncho Pneumonia and Convulsions.	Boat-shaped bottle.	Milk and water every 2 hours.	Mother goes out to work.
62	June 15, 1907	1 day	Premature birth.	None.	None	Mother goes out to work.
63	June 19, 1907	1 month	Whooping Cough and Convulsions.	None.	Breast-fed.	
64	July 15, 1907	10 weeks	Diarrhoea & Convulsions.	Bottle with long tubing.	Breast-fed 1 month, then milk little water and sugar.	Mother goes out to work.
65	July 26, 1907	2 months.	Perussis	None.	Breast-fed.	
66	July 31, 1907	28 days	Diarrhoea & marasmus	Boat-shaped bottle.	Milk and barley water.	
67	Aug. 18, 1907	11 weeks	Laryngismus Stridulus.	None.	Breast-fed, also with husks in water sweetened	Mother goes out to work.
68	Aug. 26, 1907	9 months	Whooping Cough.	Boat-shaped bottle.	Breast 6 weeks, then milk, lime water and sugar	Mother goes out to work.
69	Sept. 6, 1907	11 days	Premature Birth.	None.	Breast-fed.	Mother goes out to work.
70	Sept. 18, 1907	21 days.	Prematurity & Inanition.	Boat-shaped bottle.	Breast 4 days, then milk and water, equal parts.	

Deaths of Infants during the year 1907, with Cause of Death and Method of Feeding—continued.

No.	Date of Death	Age	Cause of Death	Kind of Bottle used	Kind of Food given	
71	Sept. 24, 1907	10 months	Broncho Pneumonia.	Boat-shaped bottle.	Milk, lime water and sugar.	Mother goes out to work.
72	Sept. 27, 1907	9 months	Influenza, Meningitis.	None.	Breast-fed	
73	Sept. 30, 1907	7 months	Broncho Pneumonia.	Boat-shaped bottle.	Milk.	Mother goes out to work.
74	Oct. 9, 1907	1 day.	Prematurity.	None.	None.	
75	Oct. 11, 1907	10 months	Acute Bronchitis	Bottle with tubing	Milk and water.	
76	Oct. 15, 1907	2 months	Broncho Pneumonia	Bottle with tubing and boat-shaped.	Milk and water, equal parts, every 3 hours.	
77	Oct. 16, 1907	1 month	Bronchitis.	None.	Breast-fed.	Mother goes out to work.
78	Oct. 31, 1907	9 months	Bronchitis.	Boat-shaped bottle.	3 parts milk to 1 part water.	
79	Nov. 4, 1907	10 weeks	Broncho Pneumonia.	Boat-shaped bottle.	Prepared food.	
80	Nov. 7, 1907	8 months	Tubercular Meningitis.	Bottle with long tubing	Milk and barley water.	Mother goes out to work.
81	Nov. 6, 1907	21 days	Debility from Prematurity	None.	Breast-fed.	
82	Nov. 11, 1907	26 days	Debility from Prematurity	None.	Breast-fed.	
83	Nov. 15, 1907	4 months.	Diarrhea.	Bottle with long tubing.	Breast-fed until last week, then fed on milk, brandy and Cornflour	
84	Nov. 15, 1907	4 days	Inanition.	None.	Milk and water given with teaspoon.	Mother goes out to work.
85	Nov. 16, 1907	6 days	Prematurity.	None.	Milk and water given with teaspoon.	
86	Nov. 17, 1907	2 months	Broncho Pneumonia.	Boat-shaped bottle.	Breast-fed 1 month, then milk and lime water (equal parts)	Mother goes out to work.
87	Nov. 27, 1907	28 days.	Broncho Pneumonia.	Bottle with long tubing.	Milk, lime water and sugar.	
88	Dec. 6, 1907	5 months	Tubercular Meningitis and Convulsions.	Bottle with tubing.	Milk, lime water and sugar.	Mother goes out to work.
89	Dec. 6, 1907	1 month	Bronchitis, Congenital weakness.	Boat-shaped bottle.	Breast 3 weeks, bottle 1 week, milk and barley water.	Mother goes out to work.
90	Dec. 5, 1907	20 hours	Prematurity.	None.	None.	
91	Dec. 9, 1907	20 hours	Prematurity.	None.	None.	Mother goes out to work.
92	Dec. 12, 1907	11 months	Pneumonia.	Bottle with tubing	Milk and water, breast 5 months	
93	Dec. 15, 1907	9 months	Teething, Convulsions.	Boat-shaped bottle.	Milk and water 5 months, pure milk afterwards	
94	Dec. 16, 1907	16 hours	Prematurity, Cardiac Insufficiency.	None.	None.	Mother goes out to work.
95	Dec. 21, 1907	18 hours	Inanition.	None.	None.	

Return of Deaths in Blackburn Workhouse during 1907.

Date of Death.	Date of Admittance to Institution.	NAME.	ADDRESS.	Occupation.	DISEASE.	Un-der 1	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 65	65 and up-wards	Total.
Feb. 18	Jan. 15, 1907	Henry Watson	3, Cockrane Street	Labourer	Chronic Bronchitis.	1	1	1	1	1	1	1	1	1
Feb. 15	Feb. 9, 1907 ...	Mary Decaux ...	Back Bury Fold	Widow of Labourer	Cerebral Hemorrhage	1	1	1	1	1	1	1	1	1
Mar. 5,	Jan. 24, 1907	Elizabeth Duckworth	9a, Entwistle Street	Widow of Stone mason	Senile Decay.	1	1	1	1	1	1	1	1	1
Mar. 19	Aug. 16, 1906	James Pilkington	25, Union Street	Son of a carter	Idiocy Phthisis	1	1	1	1	1	1	1	1	1
Apr. 11	Mar. 29, 1907	John S. Aspden	6, Orchard Street	Son of a weaver	Enteric Fever	1	1	1	1	1	1	1	1	1
Apr. 17	Oct. 31, 1905	Richard T. Leigh	148, Bolton Road	Son of a Servant	General Tuberculosis	1	1	1	1	1	1	1	1	1
May 3	June 11, 1886	Alfred Kirkham	22, Sarah Street	Weaver	Phthisis	1	1	1	1	1	1	1	1	1
Apr. 20	Dec. 10, 1887	Grace Holden ...	5, Richard Street	Widow of Spinner	Senile Decay	1	1	1	1	1	1	1	1	1
May 8	Feb. 25, 1907	Elizabeth Moran	8, Everton Street	Cotton Winder	Morbus Cordis	1	1	1	1	1	1	1	1	1
May 8	May 7, 1907 ...	John Kay	1, Earnsdale	Cotton Weaver	Morbus Cordis	1	1	1	1	1	1	1	1	1
May 22	May 7, 1907 ...	Hannah Town ...	41 Exchange Street	Widow of Iron Fitter	Chronic Bronchitis	1	1	1	1	1	1	1	1	1
May 24	May 3, 1907 ...	Squire Gibson ...	Police Street ...	Cotton Weaver	Phthisis	1	1	1	1	1	1	1	1	1
June 12	Apr. 2, 1907 ...	Robert Taylor ...	33, Vernon Street	Cotton Weaver	Senile Decay	1	1	1	1	1	1	1	1	1
June 16	June 13, 1907	Sarah Alice Watson	186, Duckworth Street	Wife of Blacksmith	Cerebral Hemorrhage	1	1	1	1	1	1	1	1	1
June 24	May 11, 1907	Jane McLean ...	8, Grime Street	Cotton Waste Sorter	Phthisis	1	1	1	1	1	1	1	1	1
June 20,	Apr. 27 1907	William Walsh	9, John Street	Iron Dresser	Cerebral Softening	1	1	1	1	1	1	1	1	1
Aug. 2	June 19, 1907	Mary Harwood	5, Shorrocks Fold	Widow of Labourer	Morbus Cordis	1	1	1	1	1	1	1	1	1
Aug 27	July 18, 1907	James Whewell	Police Street	Labourer	Senile Decay	1	1	1	1	1	1	1	1	1
Sept. 2	Jan 30, 1892	Thomas Holden	King Street	Coal Miner ...	Senile Decay	1	1	1	1	1	1	1	1	1
Sept. 4	May 24, 1905	Eliza Walsh	Sudellside Street	Widow of Horse-keeper	Cerebral Paralysis	1	1	1	1	1	1	1	1	1
Sept. 8	Sept. 7 1907 ...	Joseph Parker ...	12, Dove Lane ...	Stoker	Erysipelas of Face	1	1	1	1	1	1	1	1	1
Sept 11,	July 16, 1907	Thomas Redman	21, Cup Lane ...	Labourer	Chronic Bronchitis	1	1	1	1	1	1	1	1	1
Oct. 7	Sept. 17, 1907	Elizabeth Hindle	94, Wood Street	Wife of a Stoker	Chronic Bronchitis	1	1	1	1	1	1	1	1	1
Oct 22	May 7, 1897 ...	Edward Kenyon	56, Blackburn Road	Blacksmith ...	Cerebral Paralysis	1	1	1	1	1	1	1	1	1
Nov. 17	Oct. 23, 1907	Catherine Brown	13, Ellerslie Street	Wife of a Weaver	Senile Decay, Bronchitis	1	1	1	1	1	1	1	1	1
Nov. 25	June 23, 1907	Elizabeth Fish ...	12, Astley Street	Widow of Coal Miner	Chronic Bronchitis	1	1	1	1	1	1	1	1	1
Nov. 25	Apr. 20, 1907	Andrew Lomax	14, Joseph Street	Plasterer	Cerebral Hemorrhage	1	1	1	1	1	1	1	1	1
Dec. 29	Dec. 27, 1907	James Regan ...	Police Street ...	Clay Moulder	Cerebral Paralysis	1	1	1	1	1	1	1	1	1
Dec. 15	Dec. 7, 1907 ...	Donald Davidson	11, Bury Street	Stone-mason	Chronic Bronchitis	1	1	1	1	1	1	1	1	1

TABLE XV.

Showing the Diseases and Age Periods at which Persons have Died.

DISEASES	Un- der 1 yr	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 65	65 and upwards		Total.	
	M F	M F	M F	M F	M F	M F	M F	M	F	M	F
DIGESTIVE DISEASES.											
Alcoholic Gastritis							1	...	...	...	1
Appendicitis							1	...	...	1	...
Cirrhosis of Liver							1	...	...	...	1
Enteritis	2	1					1	...	...	3	1
Gall Stones							1	...	2	...	3
Gastric Ulcer				1			1	3	...	1	4
Gastritis	3						2	...	...	3	2
Gastro Enteritis	2							...	...	2	...
Hepatitis	1							...	2	1	2
Icterus Neonatorum		1						...	...	...	1
Inanition	5	2	1					...	...	6	2
Intussusception of Bowels	1	...	1					...	...	2	...
Obstruction of Bowels								1	...	1	...
Strangulated Femoral Hernia...							1	...	...	...	1
Strangulated Inguinal Hernia...				1				...	...	1	...
Umbilical Hernia							1	...	...	...	1
	14	4	2	...	1	1	...	3	10	1	4
										21	19
NERVOUS DISEASES.											
Alcoholic Neuritis							1	...	...	...	1
Apoplexy						2	2	6	8	8	12
Cerebral Congestion							1	...	...	1	...
Convulsions	5	4	2	1				...	...	7	5
Epilepsy	1			2				...	...	1	2
Fredreich's Ataxia		1						...	...	...	1
Hemiplegia							1	2	2	3	2
Infantile Paralysis				1				...	...	...	1
Laryngismus Stridulus	1							...	...	1	...
Locomotor Ataxia							1	...	...	...	1
Meningitis	1	2	2	1				...	...	4	2
Muscular Atrophy								1	...	1	...
Myelitis								1	...	1	...
Neurasthenia							1	...	...	1	...
Paralysis .....								...	1	...	1
Puerperal Eclampsia				1				...	...	...	1
Spastic Paraplegia								1	...	1	...
	8	7	4	1	1	2	...	2	...	2	1
								2	1	5	9
								13	9	33	31

TABLE XV.—(Continued).

DISEASES	Un- der 1 yr	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 65	65 and upwards		Total.	
	M F	M F	M F	M F	M F	M F	M F	M	F	M	F
NEW GROWTHS.											
Cancer of Breast						2	3		2		7
Cancer of Liver					1		2	2	1	3	3
Cancer of Stomach					1		1	1	1	3	2
Cancer of Oesophagus							1	1		2	1
Cancer of Uterus							2		1		3
Cancer							3			3	
Cancer of Rectum							1	1		2	
Cancer of Stomach and Liver							1			1	
Cancer of Jaw							1			1	
Cancer of Parotid Gland								1		1	
Cancer of Lung						1					1
Cancer of Tongue							1			1	
Cancer of Ovary							1				1
Cancer of Bowel							1			1	
					1	1	3	12	10	5	4
										18	18
RESPIRATORY DISEASES.											
Acute Laryngitis		1								1	
Asthma							1			1	
Atelectasis	1									1	
Bronchitis	6	10	4	5	1		1	8	1	7	5
Congestion of Lungs							1			1	
Emphysema		1					2			3	
Phthisis		1	1	1	4	7	5	2	4	8	2
Pneumonia	13	5	6	10	1	2	1	3	2	7	5
							2	7	5		6
	20	15	13	15	2	2	2	6	10	5	2
							7	27	8	7	11
										83	69
GENERAL DISEASES.											
Alcoholism								1		1	
Diabetes							1				1
Hæmophilia						1				1	
Pernicious Anæmia				1		1	2	1		3	3
Pupura		1								1	
Senile Decay							1	10	15	10	16
		1		1		1	1	2	3	11	16
										16	20
PRINCIPAL ZYMOTIC DISEASES.											
Diarrhœa	2	1	1		1					3	2
Diphtheria			2	1	1					1	4
Enteric Fever			1				1	2		2	2
Measles			1								1
Small Pox								1		1	
Whooping Cough	2	2	5	2	1	1				8	5
	4	3	6	5	3	2		1	2	1	
										15	14

TABLE XV.—(Continued).

DISEASES	Un- der 1 yr	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 65	65 and upwards		Total.					
	M F	M F	M F	M F	M F	M F	M F	M	F	M	F				
Diseases OF THE URINARY SYSTEM.															
Bright's Disease.....	1			1	2	2	2	1	3	5	3	2	2	12	12
Cystitis												1		1	
Diabetes Insipidus												1		1	
Renal Calculus				1			1							1	1
Sclerosis of Kidney								1							1
Uraemia							1			1				2	
	1			1	3	2	2	2	3	6	4	5	2	17	14
CIRCULATORY DISEASES.															
Arterial Sclerosis							1	1		2		1		3	2
Congenital Heart Disease.....		1													1
Heart Disease			2	3	2	1	1	1	5	15	11	6	6	25	28
		1	2	3	2	1	1	1	5	16	12	8	7	28	31
DEVELOPMENT DISEASES.															
Congenital Defects in Intestine	1													1	
Premature Birth	12	6												12	6
Spina Bifida	1													1	
	14	6												14	6
INFECTIVE DISEASES.															
Tubercular Disease of Testes							1							1	
Tubercular Meningitis	1	2												1	2
General Tuberculosis			1				1							2	
Influenza.....	1				1		1	3				1		3	4
Rheumatic Fever			1		1		1							2	1
Tubercular Peritonitis			1	1										2	
	2	2	3	1	1	1	1	3	3			1		11	7
DISEASES CONNECTED WITH PARTURITION.															
Child Birth						1									1
Parturition							1								1
					1	1									2

TABLE XV.—(Continued).

DISEASES	Un- der 1 yr	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 65	65 and upwards	Total.	
	M F	M F	M F	M F	M F	M F	M F	M F	M	F
DISEASES OF THE GENERATIVE SYSTEM.										
Ovarian Tumour						1				1
DISEASES OF ORGANS OF LOCOMOTION.										
Gangrene of Foot									1	1
Spinal Caries									1	1
									2	2
DISEASES OF THE EAR.										
Suppuration of Middle Ear						1				1
SUICIDES.										
Drowned							4		4	
Hanged						1	1		2	1
Poisoned					1				1	1
				1		1	5		1	7
INQUESTS.										
	1	1		1			2	6	2	2
UNCERTIFIED.										
	1	1			1	1		1		
									2	3
ACCIDENTS.										
		1		1	1		1	3		
									6	1

Deaths in Regard to Occupation.

Accidents.

Cotton Weaver	1
Knocker-up	1
Labourer	1
	—
	3
	—

Alcoholic Gastritis.

Cotton Winder	1
	—

Alcoholic Neuritis.

Housewife	1
-----------------	---

Alcoholism.

Clog-Block Maker.....	1
-----------------------	---

Appendicitis.

Butcher	1
---------------	---

Apoplexy.

Block Cutter	1
Caretaker	1
Club Steward.....	1
Collier.....	1
Cotton Twister	1
Cotton Weavers	2
Furniture Dealer	1
Grocers	2
Housewives	13
Inn-Keeper	1
Tripe-Dealer	1
	—
	25
	—

Arterial Sclerosis.

Cotton Mill Manager	1
Cotton Weaver	1
Housewives	2
Inn-Keeper	1
	—
	5
	—

Asthma.

Cotton Weaver	1
---------------------	---

Biliary Calculus.

Housewives	2
------------------	---

Bright's Disease.

Caretaker	1
Collier.....	1
Cotton Spinner	1
Cotton Tape Sizer.....	1
Cotton Warper	1
Cotton Weavers	3
Cotton Winder	1
Dressmaker	1
Farm Labourer	1
Green Grocer.....	1
Housewives	6
Labourers	2
Paper Reeler	1
	—
	21
	—

Bronchitis.

Brick-layer.....	1
Coal Dealer	1
Collier	1
Cotton Mill Overlooker	1
Cotton Spinner	1
Cotton Weavers	2
Housewives	7
Iron Broker	1
Iron Moulder	1
Iron-stone Miner	1
Joiner	1
Oil and Tallow Merchant	1
Railway Goods Inspector	1
Shoe Maker	1

—
21
—**Cancer.**

Cotton Weaver	1
Labourer	1
Police Constable	1

—
3
—**Cancer of Breast.**

Book-Binder's Assistant	1
Housewives	6

—
7
—**Cancer of Bowel.**

Labourer	1
----------------	---

Cancer of Jaw.

Cotton Grinder	1
----------------------	---

Cancer of Liver.

Cotton Mill Overlooker	1
Hotel Manageress	1
Housewives	2
Labourer	1
Printer	1
—	6
—	—

Cancer of Lung.

Cotton Card-room Hand	1
-----------------------------	---

Cancer of Oesophagus.

Calico Printers Finisher	1
Hotel Keeper.....	1
Housewife	1

—
3
—**Cancer of Parotid Gland.**

Clogger	1
---------------	---

Cancer of Rectum.

Cotton Weaver	1
Labourer	1

—
2
—**Cancer of Stomach.**

Farmer	1
Flagger and Slater	1
Housewives	2
Yeast Dealer	1

—
5
—

Cancer of Stomach and Liver

Butcher 1

Cancer of Tongue.

Labourer 1

Cancer of Uterus.

House Keeper 1

Housewives 2

—
3
—

Cerebral Congestion.

Cotton Spinner 1

Childbirth.

Cotton Weaver 1

Cirrhosis of Liver.

Housewife 1

Congestion of Lungs.

Tailor 1

Cystitis

Grocer..... 1

Diabetes.

Furniture Dealer 1

Diabetes Insipidus.

Cotton Tape Sizer..... 1

Diarrhœa.

Cotton Weaver 1

Diphtheria.

Cotton Weaver 1

Emphysema.

Cotton Mill Overlooker 1

Quarryman 1

—
2
—

Enteric Fever.

Caretaker 1

Cotton Weaver 1

Housewife 1

Labourer 1

—
4
—

Enteritis.

Carter 1

Gall Stone.

Housewife 1

Gangrene of Foot.

Housewife 1

Gastric Ulcer.

Cotton Weavers 2

Labourer 1

Housewives 2

—
5
—

Gastritis.

Housewives 2

Hæmophilla.

Cotton Weaker 1

Heart Disease.

Carter 1
 Coachmen 2
 Collier..... 1
 Cotton Creeler 1
 Cotton Spinner 1
 Cotton Tape Sizer..... 1
 Cotton Weavers 9
 Farmer 1
 Gardener..... 1
 Housewives 18
 Inn-Keeper 1
 Insurance Agent 1
 Iron Founder..... 1
 Kiln-Setter..... 1
 Labourers 2
 Lodging House Keeper 1
 Machine Printer 1
 Railway Porter 1
 Shopman 1
 Stone-Masons 2
 —————
 48
 —

Hemiplegia.

Accountant 1
 Cashier 1
 Housewives 2
 Labourer 1
 —————
 5
 —

Hepatitis.

Housewives 2

Influenza.

Chair Maker 1
 Housewives 4
 Paper Mill Checker 1
 —————
 6
 —

Injuries.

Carter 1
 Cotton Weaver 1
 Rope Manufacturer 1
 —————
 3
 —

Inquest.

Collier..... 1
 Cotton Weavers 2
 Engine Tenters 2
 Housewives 4
 Labourers 2
 Quarryman 1
 Shoe Maker 1
 —————
 13
 —

Muscular Atrophy.

Accountant 1

Myelitis.

Clerk 1

Neurasthenia.

Labourer 1

Obstruction of Bowel.

Knocker-up 1

Paralysis.

Housewife 1

Parturition.

Cotton Card-room Hand 1

Pernicious Anæmia.

Cotton Spinner 1

Cotton Weaver 1

Furniture Broker 1

Housewives 2

Pattern Maker (iron) 1

—
6
—

Phthisis.

Block Printer 1

Coachmen 2

Cotton Drawer-in 1

Cotton Mill Overlooker 1

Cotton Reacher-in 1

Cotton Twister 1

Cotton Weavers 8

Housewives 7

Labourer 1

Laundress 1

Milk Seller 1

Printer 1

Slater 1

Stone Masons 2

Tea Dealer 1

—
30
—

Pneumonia.

Blast Furnace-man 1

Carters 2

Char Woman 1

Clerk 1

Collier 1

Cotton Mill Overlooker 1

Cotton Warper 1

Cotton Weavers 5

Draper 1

Housewives 11

Labourer 1

—
26
—

Puerperal Eclampsia.

Cotton Card-room Hand 1

Renal Calculi.

Cotton Cloth Looker. 1

Rheumatic Fever.

Cotton Creeler 1

Dressmaker 1

Labourer 1

—
3

Sclerosis of Kidney.

Housewife 1

Senile Decay.

Brick Maker	1
Char-Woman	1
Coal Dealer	1
Cotton Spinner	1
Cotton Weavers	4
Farmer	1
Housewives	13
Iron Broker	1
Paper Maker	1

24

Small Pox.

Carter	1
--------------	---

Spastic Paraplegia.

Cotton Weaver	1
---------------------	---

Spinal Caries.

Housewife	1
-----------------	---

Strangulated Inguinal Hernia.

Stoker.....	1
-------------	---

Suicide.

Collier	1
Cotton Card-room Hand	1
Cotton Mill Overlooker	1
Cotton Weaver	1
Housewives	2
Labourer	1
Printer	1

8

Suppuration of Middle Ear.

Cotton Warper	1
---------------------	---

Tubercular Disease of Testes.

Labourer	1
-----------------	---

Tubercular Peritonitis.

Cotton Weaver	1
Tailor	1

2

Tuberculosis.

Cotton Weaver	1
---------------------	---

Umbilical Hernia.

Housewife	1
-----------------	---

Uncertified.

Collier.....	1
Cotton Winder	1

2

Uraemia.

Cotton Weaver	1
Printer	1
Secretary	1

3

TABLE XVI.

DISEASES.	5 to 15		15 to 25		25 to 35		35 to 45		45 to 65		65 and upwards		Total.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Accountants.														
Hemiplegia.....											1	...	1	...
Muscular Atrophy											1	...	1	...
											2	...	2	...
Blast Furnace-man														
Pneumonia					1						...	...	1	...
Block Cutter.														
Apoplexy											1	...	1	...
Block Printer.														
Phthisis									1	...	...	...	1	...
Bookbinders Assistant.														
Cancer of Breast								1	...	...	...	...	...	1
Brick-layer.														
Bronchitis									1	...	...	...	1	...
Brick-maker.														
Senile Decay											1	...	1	...

TABLE XVI.—(Continued).

DISEASES.	5 to 15		15 to 25		25 to 35		35 to 45		45 to 65		65 and upwards		Total.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Butchers.														
Cancer of Stomach and Liver									1	...	...	...	1	...
Appendicitis									1	...	...	...	1	...
									2	...	...	...	2	...
Calico Printers Finisher.														
Cancer of Oesophagus											1	...	1	...
Caretakers.														
Apoplexy									1	...	...	...	1	...
Bright's Disease									1	...	...	...	1	...
Enteric Fever									1	...	...	...	...	1
									2	1	...	...	2	1
Carters.														
Enteritis									1	...	...	...	1	...
Heart Disease									1	...	...	...	1	...
Injury									1	...	...	...	1	...
Pneumonia					1	...			1	...	...	...	2	...
Small Pox											1	...	1	...
					1	...			4	...	1	...	6	...
Cashier.														
Hemiplegia											1	...	1	...
Chair Maker.														
Influenza									1	...	...	...	1	...

TABLE XVI.—(Continued).

DISEASES.	5 to 15		15 to 25		25 to 35		35 to 45		45 to 65		65 and upwards		Total.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Char-Women.														
Pneumonia									1	...	...	...	...	1
Senile Decay	1	...	...	1
									1	...	1	...	...	2
Clerks.														
Myelitis										1	...	...	1	...
Pneumonia			1	...					...	...	...	...	1	...
			1	...					1	...	...	...	2	...
Clog Block Maker.														
Alcoholism										1	...	...	1	...
Clogger.														
Cancer of Parotid Gland										1	...	...	1	...
Club Steward.														
Apoplexy										1	...	...	1	...
Coachmen.														
Heart Disease									2	...	...	...	2	...
Phthisis					2	...			...	...	...	...	2	...
					2	...			2	...	...	...	4	...

TABLE XVI.—(Continued).

DISEASES.	5 to 15		15 to 25		25 to 35		35 to 45		45 to 65		65 and upwards		Total.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Coal Dealers.														
Bronchitis											1	...	1	...
Senile Decay											1	...	1	...
											2	...	2	...
Colliers.														
Apoplexy											1	...	1	...
Bright's Disease									1	...	...	...	1	...
Bronchitis											1	...	1	...
Heart Disease											1	...	1	...
Inquest									1	...	...	...	1	...
Pneumonia									1	...	...	...	1	...
Suicide				1							...	...	1	...
Uncertified						1					...	...	1	...
				1		1			3	...	3	...	8	...
Cotton Card-room Hands.														
Cancer of Lung								1	...	...	...	...	...	1
Parturition								1	...	...	...	...	...	1
Puerperal Eclampsia				1					...	...	...	...	...	1
Suicide							1	...	...	...	...	...	1	...
				1			1	2	...	...	...	...	1	3
Cotton Cloth-looker.														
Renal Calculi								1	...	...	...	...	1	...
Cotton Creelers.														
Heart Disease				1							...	...	...	1
Rheumatic Fever	1	...									...	...	1	...
	1	...		1							...	...	1	1

TABLE XVI.—(Continued).

DISEASES.	5 to 15		15 to 25		25 to 35		35 to 45		45 to 65		65 and upwards		Total.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Cotton Drawer-in.														
Phthisis					1								1	...
Cotton Grinder.														
Cancer of Jaw									1	...			1	...
Cotton Mill Manager.														
Arterial Sclerosis									1	...			1	...
Cotton Mill Overlookers.														
Bronchitis											1	...	1	...
Cancer of Liver									1	...			1	...
Emphysema									1	...			1	...
Phthisis							1						1	...
Pneumonia									1	...			1	...
Suicide									1	...			1	...
							1	...	4	...	1	...	6	...
Cotton Reacher-in.														
Phthisis			1										1	...
Cotton Spinners.														
Bright's Disease							1	...					1	...
Bronchitis									1	...			1	...
Cerebral Congestion									1	...			1	...
Heart Disease									1	...			1	...
Pernicious Anaemia									1	...			1	...
Senile Decay											1	...	1	...
							1	...	4	...	1	...	6	...

TABLE XVI.—(Continued).

DISEASES.	5 to 15		15 to 25		25 to 35		35 to 45		45 to 65		65 and upwards		Total.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Cotton Tape Sizors.														
Bright's Disease											1	...	1	...
Diabetes Insipidus											1	...	1	...
Heart Disease											1	...	1	...
.....											3	...	3	...
Cotton Twisters.														
Apoplexy							1	...			...	...	1	...
Phthisis									1	...	...	...	1	...
.....							1	...	1	...	...	...	2	...
Cotton Warpers.														
Bright's Disease				1	...						...	...	...	1
Pneumonia								1	...		...	...	...	1
Suppuration of Middle Ear						1	...				...	...	...	1
.....				1	...	1	...	1	...		...	...	...	3
Cotton Weavers.														
Accident				1	...						...	...	...	1
Apoplexy							1	...			1	...	2	...
Arterial Sclerosis											1	...	1	...
Asthma									1	...	...	...	1	...
Bright's Disease				1	...	1	...		1	...	...	...	1	2
Bronchitis								2	...	...	...	...	2	...
Cancer								1	...	...	...	...	1	...
Cancer of Rectum								1	...	...	...	...	1	...
Childbirth						1	...				...	...	...	1
Diarrhœa				1	...						...	...	...	1
Diphtheria				1	...						...	...	...	1
Enteric Fever	1	...									...	...	1	...
Gastric Ulcer				1	...				1	...	...	...	...	2
Haemophilia							1	...			...	...	1	...

TABLE XVI.—(Continued).

DISEASES.	5 to 15		15 to 25		25 to 35		35 to 45		45 to 65		65 and upwards		Total.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Cotton Weavers (continued).														
Heart Disease		1		1		1	1	1	2	2	...	...	3	6
Injuries			1								...	...	1	...
Inquests									2		...	...	2	...
Pernicious Anæmia						1					...	...	...	1
Phthisis				2	2	3			1		...	...	3	5
Pneumonia	1			1					3		...	...	4	1
Senile Decay										4	...	...	4	...
Spastic Paraplegia										1	...	...	1	...
Suicide									1		...	...	1	...
Tubercular Peritonitis	1										...	...	1	...
Tuberculosis									1		...	...	1	...
Uraemia										1	...	...	1	...
	3	1	2	8	2	7	3	1	15	4	8	...	33	21
Cotton Winders.														
Alcoholic Gastritis									1		...	...	...	1
Bright's Disease								1			...	...	...	1
Uncertified						1					...	...	...	1
						1		1		1	...	...	...	3
Draper.														
Pneumonia									1		...	...	1	...
Dressmakers.														
Bright's Disease						1					...	...	...	1
Rheumatic Fever				1							...	...	...	1
				1		1					...	...	...	2

TABLE XVI.—(Continued).

DISEASES.	5 to 15		15 to 25		25 to 35		35 to 45		45 to 65		65 and upwards		Total.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Engine Tenters.														
Inquest									2	...	...	...	2	...
Farmers.														
Cancer of Stomach									1	...	...	...	1	...
Heart Disease											1	...	1	...
Senile Decay											1	...	1	...
									1	...	2	...	3	...
Farm Labourer.														
Bright's Disease					1	...					...	...	1	...
Flagger and Slater.														
Cancer of Stomach							1	...			...	...	1	...
Furniture Broker.														
Pernicious Anæmia									1	...	...	...	1	...
Furniture Dealers.														
Apoplexy									1	...	...	...	1	...
Diabetes										1	...	...	...	1
									1	1	...	...	1	1
Gardener.														
Heart Disease									1	...	...	...	1	...

TABLE XVI.—(Continued).

DISEASES.	5 to 15		15 to 25		25 to 35		35 to 45		45 to 65		65 and upwards		Total.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Green Grocer.														
Bright's Disease											1	...	1	...
Grocers.														
Apoplexy											2	...	2	...
Cystitis											1	...	1	...
											3	...	3	...
Hotel Keeper.														
Cancer of Oesophagus									1	...	...	...	1	...
Hotel Manageress.														
Cancer of Liver						1	...	...	...	...	...	...	...	1
House-keeper.														
Cancer of Uterus									1	...	...	...	...	1
Housewives.														
Alcoholic Neuritis								1	...	...	...	...	...	1
Apoplexy									5	...	8	...	13	...
Arterial Sclerosis									1	...	1	...	2	...
Biliary Calculus	2	...	2	...
Bright's Disease								2	2	...	2	...	6	...
Bronchitis								1	1	...	5	...	7	...
Cancer of Breast								1	3	...	2	...	6	...
Cancer of Liver									2	...	...	...	2	...
Cancer of Oesophagus									1	...	...	...	1	...
Cancer of Stomach									1	...	1	...	2	...

TABLE XVI.—Continued

DISEASES.	5 to 15		15 to 25		25 to 35		35 to 45		45 to 65		65 and upwards		Total.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Housewives (continued).														
Cancer of Uterus									1	...	1	...	2	
Cirrhosis of Liver									1	...	...	...	1	
Enteric Fever									1	...	...	...	1	
Gall Stone									1	...	...	...	1	
Gangrene of Foot	1	...	1	
Gastric Ulcer									2	...	...	...	2	
Gastritis									2	...	...	...	2	
Heart Disease							4	...	8	...	6	...	18	
Hemiplegia									2	...	...	...	2	
Hepatitis	2	...	2	
Influenza									3	...	1	...	4	
Inquests							2	...	2	...	...	...	4	
Paralysis	1	...	1	
Pernicious Anæmia									1	...	1	...	2	
Phthisis					1	...	4	...	2	...	...	...	7	
Pneumonia							1	...	4	...	6	...	11	
Sclerosis of Kindey									1	...	...	...	1	
Senile Decay									1	...	12	...	13	
Spinal Caries	1	...	1	
Suicide					1	...	...	...	...	...	1	...	2	
Umbilical Hernia									1	...	...	...	1	
						2	...	16	...	49	...	54	...	121
Inn Keepers.														
Apoplexy	1	...	1	...
Arterial Sclerosis	1	...	1	...
Heart Disease									1	...	2	...	3	...
									1	...	2	...	3	...
Insurance Agent.														
Heart Disease									1	...	...	...	1	...

TABLE XVI.—(Continued).

DISEASES.	5 to 15		15 to 25		25 to 35		35 to 45		45 to 65		65 and upwards		Total.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Iron Brokers.														
Bronchitis									1	...	...	...	1	...
Senile Decay	1	...	...	1	...
									1	...	1	...	2	...
Iron Founder.s														
Heart Disease									1	...	...	...	1	...
Iron Moulder.														
Bronchitis										1	...	...	1	...
Iron-stone Miner.														
Bronchitis										1	...	...	1	...
Joiner.														
Bronchitis									1	...	...	...	1	...
Kiln Setter.														
Heart Disease									1	...	...	...	1	...
Knocker-up.														
Accident									1	...	...	...	1	...
Obstruction of Bowel	1	...	...	1	...
									1	...	1	...	2	...

TABLE XVI.—(Continued).

DISEASES.	5 to 15		15 to 25		25 to 35		35 to 45		45 to 65		65 and upwards		Total.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Labourers.														
Accident									1	...	...	...	1	...
Bright's Disease					1	...			1	...	...	...	2	...
Cancer									1	...	...	...	1	...
Cancer of Bowel									1	...	...	...	1	...
Cancer of Liver											1	...	1	...
Cancer of Rectum											1	...	1	...
Cancer of Tongue									1	...	...	...	1	...
Enteric Fever									1	...	...	...	1	...
Gastric Ulcer									1	...	...	...	1	...
Heart Disease									2	...	...	...	2	...
Hemiplegia									1	...	...	...	1	...
Inquests									1	...	1	...	2	...
Neurasthenia									1	...	...	...	1	...
Phthisis					1	...					...	...	1	...
Pneumonia					1	...					...	...	1	...
Rheumatic Fever							1	...			...	...	1	...
Suicide									1	...	...	...	1	...
Tubercular Disease of Testes									1	...	...	...	1	...
					3	...	1	...	14	...	3	...	21	...
Laundress.														
Phthisis					1	...					...	...	...	1
Lodging House Keeper.														
Heart Disease									1	...	...	...	1	...
Machine Printer.														
Heart Disease									1	...	...	...	1	...
Milk Seller.														
Phthisis					1	...					...	...	1	...

TABLE XVI.—(Continued).

DISEASES.	5 to 15		15 to 25		25 to 35		35 to 45		45 to 65		65 and upwards		Total.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Oil and Tallow Merchant.														
Bronchitis									1	...	...	...	1	...
Painters.														
Phthisis									1	...	...	...	1	...
Uraemia									1	...	...	...	1	...
									2	...	...	...	2	...
Paper Maker.														
Senile Decay											1	...	1	...
Paper Mill Checker.														
Influenza					1	...					...	...	1	...
Paper Reeler.														
Bright's Disease									1	...	...	...	1	...
Pattern Maker (Iron).														
Pernicious Anæmia				1	...						...	...	1	...
Police Constable.														
Cancer									1	...	...	...	1	...
Printers.														
Cancer of Liver									1	...	...	...	1	...
Suicide									1	...	...	...	1	...
									2	...	...	...	2	...

TABLE XVI.—(Continued).

DISEASES.	5 to 15		15 to 25		25 to 35		35 to 45		45 to 65		65 and upwards		Total.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Quarrymen.														
Emphysema									1	...	...	...	1	...
Inquest									2	...	...	...	1	...
									2	...	...	...	2	...
Railway Goods Inspector.														
Bronchitis											1	...	1	...
Railway Porter.														
Heart Disease											1	...	1	...
Rope Manufacturer.														
Injuries							1	...	...	...	...	...	1	...
Secretary.														
Uraemia									1	...	...	...	1	...
Shoe Maker.														
Bronchitis									1	...	...	...	1	...
Inquest											1	...	1	...
									1	...	1	...	2	...
Shop-man.														
Heart Disease					1	...	...	...	...	...	...	...	1	...

TABLE XVI.—(Continued).

DISEASES.	5 to 15		15 to 25		25 to 35		35 to 45		45 to 65		65 and upwards		Total.	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Slater.														
Phthisis									1	...	...	...	1	...
Stoker.														
Strangulated Inguinal Hernia.....			1	...							...	...	1	...
Stone Masons.														
Heart Disease											2	...	2	...
Phthisis									2	...	...	...	2	...
									2	...	2	...	4	...
Tailors.														
Congestion of Lungs									1	...	...	...	1	...
Tubercular Peritonitis			1	...							...	...	1	...
			1	...					1	...	...	...	2	...
Tea Dealer.														
Phthisis							1	...			...	...	1	...
Tripe Dealer.														
Apoplexy											1	...	1	...
Yeast Dealer.														
Cancer of Stomach											1	...	1	...

TABLE XVII.

Estimated Population, Number of Deaths, and Death-rates from all Causes,
from Zymotic Diseases, of Children under 1 year, and Persons
60 years and upwards, during the last 17 years.

YEAR.	Estimated Population at Middle of Year.	Total Deaths from all causes	Death Rate per 1,000 of Population.	Total Deaths from Seven Principal Zymotic Diseases	Death Rate from Zymotic Diseases per 1,000 of Population	Total Deaths under 1 Year of Age.	Percentage of Deaths under 1 Year to Total Deaths.	Total Deaths of Persons 60 Years and Upwards.	Percentage of Deaths of Aged. Persons to Total Deaths.
1891	34,192	660	19.30	60	1.75	168	25.4	126	19.0
1892	35,000	641	18.31	67	1.91	177	27.6	105	16.3
1893	35,500	677	19.07	79	2.22	184	27.1	141	20.8
1894	36,000	542	15.05	40	1.11	130	23.9	107	19.7
1895	36,000	640	17.77	77	2.13	179	27.9	124	19.3
1896	36,652	627	17.10	81	2.20	187	29.8	132	21.0
1897	37,500	651	17.36	63	1.68	182	27.9	135	20.7
1898	37,500	632	16.85	78	2.08	199	31.4	131	20.7
1899	37,900	647	17.07	89	2.34	200	30.9	119	18.3
1900	38,600	789	20.44	112	2.90	188	23.8	183	23.1
1901	38,212	620	16.22	82	2.14	145	23.3	156	25.1
1902	38,712	569	14.69	40	1.03	134	23.7	143	25.1
1903	39,114	501	12.80	30	0.76	117	23.3	147	29.3
1904	39,516	606	15.33	107	2.70	123	20.2	149	24.5
1905	39,918	562	14.07	40	1.00	118	20.9	106	18.8
1906	41,164	540	13.11	47	1.14	111	20.5	125	23.1
1907	41,864	527	12.58	29	0.69	104	19.7	110	20.8

65 and up'ds

TABLE XVIII.

Deaths during the Seventeen Years, 1891 to 1907 inclusive, of Children under 5 years and Persons 5 years and upwards.

	UNDER 5 YEARS OF AGE.																
	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907
Smallpox .....	...	...	25	...	41	14	28	25	8	42	7	3	12	27	3	17	...
Measles	21	13	7	...	2	5	2	1	15	7	8	5	...	10	14	3	...
Scarlet Fever	1	...	4	2	...	2	1	1	4	18	19	12	4	6	1	...	2
Diphtheria	2	26	2	17	3	26	9	...	15	8	11	...	8	28	...	1	11
Whooping Cough	17	17	13	1	10	2	1	3	2	10	5	1	...	...	...	...	...
Croup .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Continued Fevers :—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Typhus	2	2	...	...	...	...	...	...	...	...	1	...	1	2	...	...	...
Typhoid	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Others	10	5	20	6	18	17	11	42	25	11	14	4	1	9	3	21	4
Diarrhoea and Dysentry .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cholera .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rheumatic Fever .....	...	1	1	...	2	2	...	...	1	...	...	...	...	...	...	...	...
Erysipelas .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pyæmia .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Puerperal Fever .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ague .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Phthisis .....	...	...	1	...	...	1	...	...	...	3	...	...	...	4	1	...	1
Bronchitis, Pneumonia, and Pleurisy	68	63	84	49	51	82	64	58	67	73	59	52	41	50	44	51	59
Heart Disease	1	...	...	...	1	...	...	1	4	1	3	1	1	1	2	1	...
Injuries	4	3	1	...	5	2	3	4	4	6	4	...	3	...	5	1	1
All other Diseases	153	133	126	118	138	153	150	143	145	163	114	106	97	96	106	81	74

TABLE XVIII.—(Continued).

		5 YEARS AND UPWARDS.																
		1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907
Smallpox .....	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1
Measles	3	...	2	...	...	...	...	...	2	...	2	...	2	1	2	1	...	...
Scarlet Fever .....	...	5	3	2	...	...	...	2	...	7	4	6	4	...	12	7	...	...
Diphtheria .....	...	...	1	...	...	...	...	1	...	1	14	10	7	...	1	2	1	3
Whooping Cough .....	...	1	...	...	...	2	...	...	...	1	...	...	...	...	...	...	...	2
Croup	3	4	10	2	2	1	2	1	3	1	3	2	1	...	...	...	...	...
Continued Fevers :—																		
Typhus .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Typhoid	10	8	7	...	9	10	8	7	6	12	4	3	8	...	6	3	4	4
Others .....	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
Diarrhoea and Dysentery.....	2	3	7	...	...	3	...	...	2	2	2	3	1	...	...	8	...	1
Cholera	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rheumatic Fever .....	...	1	...	...	...	3	2	5	7	2	2	1	...	3	...	5	3	3
Erysipelas	2	1	...	1	1	...	1	2	...	1	2	...	...	...	...	1	1	...
Pyæmia .....	...	...	...	...	...	1	1	...	1	...	...	...	...	...	...	...	...	...
Puerperal .....	...	...	1	3	3	5	5	3	5	1	1	...	1	1	3	3	2	...
Ague .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Phthisis	22	40	44	44	44	38	28	27	28	31	27	29	...	22	34	35	19	34
Bronchitis, Pneumonia and																		
Pleurisy	119	93	82	52	72	53	93	60	65	89	72	72	70	53	53	56	75	51
Heart Disease	27	35	57	47	43	37	35	47	55	53	55	55	...	57	53	56	63	53
Injuries	15	15	13	5	20	15	9	4	6	4	4	7	1	4	...	6	4	6
All other Diseases	171	170	168	180	163	184	197	189	172	250	157	157	281	192	208	200	192	216

GOVERNMENT TABLE I.

Vital Statistics of whole District during 1907 and previous years.
(Population Corrected for Intercensal Periods.)
NAME OF DISTRICT—DARWEN.

YEAR.	Population estimated to Middle of Year.	BIRTHS.		TOTAL DEATHS REGISTERED IN THE DISTRICT.				TOTAL DEATHS IN PUBLIC INSTITUTIONS IN THE DISTRICT.	Deaths of Non-residents registered in Public Institutions in the District.	Deaths of Residents registered in Public Institutions beyond the District.	NET DEATHS AT ALL AGES BELONGING TO THE DISTRICT.	
		Number.	Rate.*	Under 1 Year of Age.		At all Ages.					Number.	Rate.*
				1,000 Number.	Rate per 1,000 Births registered	Number.	Rate.*					
1	2	3	4	5	6	7	8	9	10	11	12	13
1897	37,500	1114	29.70	182	163	651	17.36	Nil.	Nil.	...	651	17.36
1898	37,500	1131	30.16	199	175	632	16.85	Nil.	Nil.	...	632	16.85
1899	37,900	1062	28.02	200	188	647	17.07	Nil.	Nil.	...	647	17.07
1900	38,600	980	25.38	188	191	789	20.44	Nil.	Nil.	...	789	20.44
1901	38,212	858	22.45	145	168	620	16.22	Nil.	Nil.	...	620	16.22
1902	38,712	891	23.01	135	151	569	14.69	Nil.	Nil.	...	569	14.69
1903	39,114	941	24.05	117	124	496	12.68	Nil.	Nil.	5	501	12.80
1904	39,516	820	20.75	123	150	597	15.10	Nil.	Nil.	9	606	15.33
1905	39,918	818	20.49	118	144	549	13.75	Nil.	Nil.	13	562	14.07
1906	41,164	811	19.70	111	136	513	12.46	Nil.	Nil.	27	540	13.11
Averages for years 1897-1906.	38,813	942	24.37	151	159	606	15.66	Nil.	Nil.	13	611	15.79
1907	41,864	876	20.92	101	115	506	12.08	Nil.	Nil.	21	527	12.58

* Rates in Columns 4, 8, and 13 calculated per 1,000 of estimated population.

Area of District in acres (exclusive of area covered by water 5,919) 1061 1/2
 Total Population at all ages..... 38,212
 Number of Inhabited Houses 8,432

Average number of Persons per house 4.5

21 Residents died in public institutions beyond the District.

Net Deaths at all ages belonging to the District 506, showing
 Death-rate of 12.08 per 1,000 of the Population.
 Institutions outside the District receiving Sick and infirm
 persons from this district.

Blackburn Infirmary and Workhouse.
 Lancaster Asylum
 Children's Hospital, Manchester.

GOVERNMENT TABLE II.

Vital Statistics of Separate Localities in 1907 and previous years.

NAME OF DISTRICT—DARWEN.

Names of Localities.	1. Central Ward.				2. West Central Ward.				3. North-East Ward.				4. North-West Ward.				5. South-East Ward.				6. South-West Ward.				7. Borough.			
	Population estimated to middle of each Year.	Births Registered.	Deaths at all Ages.	Deaths under 1 Year.	Population estimated to middle of each Year.	Births Registered.	Deaths at all Ages.	Deaths under 1 Year.	Population estimated to middle of each Year.	Births Registered.	Deaths at all Ages.	Deaths under 1 Year.	Population estimated to middle of each Year.	Births Registered.	Deaths at all Ages.	Deaths under 1 Year.	Population estimated to middle of each Year.	Births Registered.	Deaths at all Ages.	Deaths under 1 Year.	Population estimated to middle of each Year.	Births Registered.	Deaths at all Ages.	Deaths under 1 Year.	Population estimated to middle of each Year.	Births Registered.	Deaths at all Ages.	Deaths under 1 Year.
1897...	6957	...	112	36	3875	...	59	14	8753	...	159	53	5202	...	84	8	6057	...	113	32	6656	...	124	39	37500	1114	651	182
1898...	6957	210	112	41	3875	109	72	21	8753	292	156	64	5202	120	78	15	6057	213	94	23	6656	213	120	35	37500	1131	632	199
1899...	7038	181	130	39	3919	95	62	14	8854	296	136	56	5260	123	66	19	6126	188	133	40	6703	199	120	32	37900	1062	647	200
1900...	7168	160	149	36	3992	109	69	20	9017	223	193	53	5357	141	113	24	6239	158	125	25	6827	184	140	30	38600	975	789	188
1901...	6919	154	124	28	3860	77	67	13	9079	225	129	36	4984	101	85	21	6500	153	120	23	6870	148	95	24	38212	858	620	145
1902...	7006	174	92	24	3866	74	61	10	9273	225	131	33	4999	107	68	13	6591	138	93	24	6977	172	121	30	38712	891	569	135
1903...	7076	186	100	29	3872	83	54	13	9428	248	110	29	5011	100	65	16	6664	159	79	15	7063	165	93	15	39114	941	501	117
1904...	7145	138	102	21	3878	73	59	7	9583	215	139	27	5023	128	103	22	6737	134	97	26	7150	132	103	20	39516	820	606	123
1905...	7214	129	96	22	3884	90	55	13	9738	229	129	35	*5035	103	84	11	6810	123	105	17	7237	144	93	20	39918	818	562	118
1906...	7539	145	86	17	4050	78	52	14	9754	206	143	33	5649	112	66	7	6868	120	86	19	7304	150	107	21	41164	811	540	111
Averages of Years 1897 to 1906.	7101	164	110	29	3907	87	61	13	9223	240	142	41	5172	115	81	15	6464	151	104	24	6944	167	111	26	38813	942	611	151
1907...	7660	124	98	19	4061	96	51	15	10024	222	123	35	5670	134	89	11	6995	144	76	5	7454	156	90	19	41864	876	527	104½

GOVERNMENT TABLE III.

Cases of Infectious Disease notified during the year 1907.

NAME OF DISTRICT—DARWEN.

Notifiable Disease.	Cases Notified in Whole District.						Total Cases Notified in each Locality.						No. of Cases Removed to Hospital from each Locality.						Total Cases removed to Hospital.		
	At Ages—Years.						1	2	3	4	5	6	1	2	3	4	5	6			
	Under 1	1 to 5	5 to 15	15 to 25	25 to 65	65 and up's															
Small Pox	1	...	...	...	...	1	1	...	...	...	...	...	...	1	...	...	...	...	...	...	1
Cholera .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Diphtheria (including)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Membranous Croup)	22	7	9	1	5	...	2	2	2	2	2	9	5	...	...	...	...	...	...	...	...
Erysipelas	14	...	1	1	10	2	2	2	2	6	1	1	2	...	...	...	...	...	...	...	...
Scarlet Fever	26	4	15	5	2	...	6	3	3	3	8	4	2	...	3	...	...	5	1	1	10
Typhus Fever .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Enteric Fever.....	21	1	5	4	11	...	3	1	3	3	6	4	4	...	...	...	...	...	...	...	...
Relapsing Fever .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Continued Fever .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Puerperal Fever.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Plague .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	84	12	30	11	28	3	14	8	14	17	18	13	4	...	...	5	1	1	1	11	

ISOLATION HOSPITAL—BULL HILL, DARWEN.

GOVERNMENT TABLE IV.

Causes of, and Ages at, Death during year 1907.

NAME OF DISTRICT—DARWEN.

CAUSES OF DEATH 1	Deaths at the subjoined ages of "Residents" whether occurring in or beyond the district.							Deaths at all ages of "Resi- dents" belonging to Local- ities whether occurring in or beyond the District					
	All Ages	Under 1 year	1 and under 5	5 and under 15	15 and under 25	25 and under 65	65 and upwards	Central Ward	West-Central Ward	North-East Ward	North-West Ward	South-East Ward	South-West Ward
	2	3	4	5	6	7	8	9	10	11	12	13	14
Small-pox	1	...	...	...	...	...	1	1	...	...	...	...	...
Measles	1	...	1	...	...	...	...	...	...	...	...	1	...
Scarlet-Fever .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Whooping-cough	13	4	7	2	...	...	...	4	1	3	1	1	3
Diphtheria (including Membranous Croup)	5	...	2	2	1	...	...	...	1	...	1	1	2
Croup .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Fever { Typhus .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Enteric	4	...	...	1	...	3	...	1	...	...	2	...	1
Other continued .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Epidemic Influenza.....	7	1	...	...	...	5	1	2	2	...	2	1	...
Cholera .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Plague .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Diarrhoea	13	11	1	...	1	...	...	3	2	5	...	...	3
Enteritis	3	...	...	...	...	3	...	1	...	1	...	...	1
Puerperal Fever .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Erysipelas.....	...	...	...	...	...	...	...	...	...	...	...	...	...
Other Septic Diseases .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Phthisis (Pulm. Tuberculosis).	35	...	1	1	5	28	...	1	2	6	10	6	10
Other Tubercular Diseases.....	8	3	...	2	1	2	...	1	1	2	2	2	...
Cancer Malignant Disease.....	36	...	...	...	...	27	9	5	2	12	5	5	7
Bronchitis.....	48	16	9	...	1	10	12	13	3	12	9	5	6
Pneumonia	62	18	16	3	2	17	6	10	6	17	7	5	17
Pleurisy.....	...	...	...	...	...	...	...	...	...	...	...	...	...
Other Diseases of Respiratory Organs	7	...	1	...	...	5	...	...	...	3	...	3	1
Alcoholism—Cirrhosis of Liver.....	4	...	...	...	...	3	1	...	1	1	2	...	...
Venereal Diseases .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Premature Birth	18	18	...	...	...	...	...	1	...	7	4	1	5
Diseases and Accidents of Parturition	2	...	...	...	...	2	...	...	...	1	...	...	1
Heart Diseases.....	54	...	1	5	2	34	12	12	7	8	7	15	5
Accidents	7	...	1	...	2	4	...	4	...	3	...	...	...
Suicides.....	9	...	...	...	1	7	1	3	1	...	1	...	4
All Other Causes	190	32	9	5	10	67	67	36	22	42	36	30	24
All Causes.....	527	104	49	21	26	217	110	98	51	123	89	76	90

Schools

I have paid visits during the year to all the Schools with respect to their Sanitary Conditions.

I arranged with the Inspectors to collect for me samples of Air from them all. This was done and Mr. John Cook, the Clerk in the Health Department, estimated the amount of Carbonic Acid in each case, with the following results :—

Amount of Carbonic Acid Gas per 1,000 Cubic Feet of air taken from Infant Schools.

Trinity, 1.18 ; Blackburn Road, 1.21 ; Earcroft, 0.85 ; Lower Chapel, 0.81 ; St. James's, 1.12 ; Duckworth Street, 0.66 ; St. George's, 1.23 ; Central Council, 1.24 ; St. Edward's, 1.10 ; Hollins Grove, 1.26 ; St. Cuthbert's, 1.01 ; Culvert, 1.27 ; Vernon Street, 1.07 ; Belgrave, 0.84 ; St. Joseph's, 1.76 ; Bolton Road, 1.64 ; St. John's, 1.23.

Amount of Carbonic Acid Gas in pure Atmospheric Air, 0.4 per 1,000.

As compared with the amount of Carbonic Acid in the Atmospheric Air. The amount in the Schools is excessive.

The CO_2 , I may state, is only used as a harmless index of the amount of Organic Impurity, and on this account it is of vast importance.

The bodies of the children are not all as clean as they should be. Certain exhalations take place, rendering the air impure : then on wet days the clothes steam and exhale impurities, so that it is very desirable to make provision for caps, overcoats, shawls, etc., somewhere not in connection with the schools, and with good cross ventilation, to prevent the odours from reaching the children. Many children present themselves at school suffering from vermin, or some skin affection. Now in the case, say, of Eczema, where matter accumulates on the head or body, this matter collects under the crusts or scabs, and constitutes a fresh source of infection. When it escapes it runs the risk of infecting others, then organic and pathogenic impurities are given off from the persons into the school rooms, rendering the air impure and dangerous. For this reason good ventilation is necessary, without draught, at the same time if these children were sent home to be cleansed, the source of air impurity and of infection could be removed.

This is also the case with regard to Infectious Diseases in the earlier stages, as soon as a child is noticed to be in the least unwell, that child should be at once sent home for 3 or 4 days. If it is only a cold the child can return to school, if more serious then the case is removed from a danger zone, and the disease is prevented from spreading.

HEALTH OFFICE, DARWEN,

August 6th, 1907.

TO THE CHAIRMAN AND MEMBERS OF THE
HEALTH COMMITTEE.

GENTLEMEN,

I have the honour to present to you my

Report on the Stammering Class,

conducted by Mr. W. A. Yearsley during the six weeks ending July 5th, 1907.

I am, Gentlemen,,

Your obedient servant,

F. G. HAWORTH,

Medical Officer of Health, and

Medical Officer to the Education Committee,
Darwen.

Stammering is the generic term for all forms of speech defect, and is commonly used synonymous with stuttering. In the course of my examination and enquiry of a large number of children forming a special class under the tuition of Mr. W. A. Yearsley, I have come to agree with him that it is important and necessary to classify the sufferers into two forms, the (1) Stammerers and the (2) Stutterers, as each one represents a distinct form of defective utterance. Certainly they differentiate in their phenomena, and it may reasonably be expected the causes will be different.

I am indebted to Mr. Yearsley for such valuable assistance in putting before you the proper significance of these particular defects, and also for much information in regard to the children in following up the progress during the course of the session.

STAMMERING.

The direct causes such as accompany the impediment when fully developed, are improper respiration and vocalisation manifested in the inability to produce articulate sound accompanied by an abnormal mental and emotional condition which arises from a lack of co-ordination of mental and vocal processes.

The Stammerer rarely exhibits any pronounced spasmodic or convulsive action of the vocal apparatus. He may distend his lips, roll his eyes, or distort his features almost beyond recognition in his vain attempts to give utterance to his thoughts; but these contortions are slowly drawn and are mild in comparison with the spasmodic and hurricane manner which attend the physical efforts of the Stutterer.

This type of speech hesitancy is a mental one—not a lack of intelligence, but a lack of co-ordinating power between the two centres.

STUTTERING.

On the other hand is a vicious attempt at utterance accompanied by spasmodic action of, not only the organs of speech, but frequently of the whole body, this being violently convulsed and contorted. He rarely hesitates through inability to produce articulate sound. He generally begins his sentence with a painful and rapid repetition of the initial syllable, the facial muscles become agitated, cutaneous congestion of the face, the respiration, spasmodic and abnormal, and the effort to connect his syllables into words is indicated by violent and excited physical movements. In his agitation he slaps, kicks, pinches himself, stamps his feet, bites his lips or tongue and exhibits signs of his difficulty being caused or accentuated by lack of nervous control. That Stuttering is a nervous complaint is indicated by the fact that the sufferers are of a sensitive and nervous temperament.

SUMMARY.

Improper respiration and vocalisation combined with an abnormal, mental, and emotional condition are the direct accompanying causes of one of these defects, and lack of nervous and physical tranquility are responsible for the more pronounced agitation attending the efforts of the Stutterer.

In the examination of 800 cases Mr. Yearsley diagnosed 40 per cent. as hereditary, 29 per cent. from association and mimicry, 15 per cent. from sickness, and 16 per cent. from shock and fright.

In the class under consideration which numbered 38 males and 7 females, making a total of 45. In 22 of the cases 2 per cent. was the cause of heredity, from association and mimicry 53.3 per cent, from nervousness 13.3 per cent. from illness 4.4 per cent, fright and shock 4, 4 per cent., and in which the cause was unknown 4.4 per cent; the causes in regard to heredity and association are reversed. This may be due to the smaller number of cases under calculation, but is probably a more correct estimate of the etiology than that given in Mr. Yearsley's figures. A child whose

parent stammers is likely to be more affected by association than by heredity, in that from his earliest moments he is exposed to the sounds of defective speech utterance, instead of rhythmic flow of correct language. This means much in the after treatment of stammering in showing us the value of segregation as far as possible, and where not feasible to correct the sufferer and keep up reading exercises.

Mr. Yearsley also found in his 800 cases, 397 began to stammer between the ages of 4 and 7 years, 227 from 7 to 9 years, 134 between 9 and 12 years, and 42 from the ages of 12 and 20 years. In the class now considered there were out of 45, 9 aged from 4 to 7 inclusive, 10 from 7 to 9 inclusive, 17 from 9 to 12 inclusive, and there were 2 aged 13 years. Again it seems to me that if heredity were to be taken into account the sufferer would be more likely to acquire the defect during his earlier years.

The same causes which have produced stammering in one person induce another to stutter. In this connection we may assume that whatever the outward manifestations of stammering and stuttering are, they are solely indicative of the temperament and general disposition of the sufferer.

We find there are as many forms of stammering as there are types of men, and that what produces in one the defect of stammering, will in another cause stuttering. Can it be then that the nervous temperament of the stutterer is responsible for the facial and physical contortions which are peculiar only to this class of unfortunates, and that the characteristics which distinguish the stammerer are solely another effect of the same disorder upon a differently constituted individual? If this be so then individuality is responsible for this distinctive element in the classification of speech impediments, and the symptoms are a reflex of natural idiosyncracies.

TREATMENT.

Improper respiration and vocalisation combined with an abnormal mental and emotional condition are the direct accompanying causes of one of these defects, and lack of nervous and physical tranquility is responsible for the more pronounced agitation attending the efforts of the other, so that in training a pupil to cultivate a habit of calm self-possession over his nervous and physical functions, and to correct his improper mode of respiration and vocalisation, it is necessary to keep him systematically drilled to the strict performance of the methods employed, that is a systematic continuity of a daily regime extending over a period of several weeks.

Mr. Yearsley brings about his results, and so far as I have seen, most perfect results, by devoting four hours a day, and six days a week for six weeks.

Thirty minutes morning and afternoon are taken up with

BREATHING EXERCISES.

This is to ensure a correct method of management of the breath in speaking. These respiratory exercises are divided into chest, diaphragmatic, and abdominal breathing, thus helping to bring out and strengthen the various muscles concerned in the operation, as well as to obtain a better control over them.

The pupils are next drilled for two hours and a half a day in a course of vocal gymnastics, first by articulating the vowels on a natural tone, then by exercising the vocal organs on an explosive utterance. They are afterwards drilled in the rising and falling inflection of each vowel sound, by commencing the sound with an effusive utterance, rising to the full pitch of the voice, then by beginning with explosive force and gradually sinking to a low tone again.

Each vowel is then separately articulated on a prolonged natural tone, the idea being to cultivate the economical expenditure of breath during articulation. Some of the pupils can, after a course of training keep up a firm volume of sound on any of the vowels for a period of 30 to 40 seconds on inhalation.

For another thirty minutes morning and evening the class is instructed in a combination of

VOCAL, BREATHING, AND PHYSICAL EXERCISES.

To enable the pupil to observe strict uniformity in respiration and to follow the elocutionary exercises with rythmical precision.

The dumbbells, which are manipulated during articulation at 80 movements to the minute, are destined to improve the physique, and to build up the necessary motive power or physical energy necessary to effect a cure.

The mental activity is awakened to the necessity of co-ordinate action between the respiratory, vocal, and physical efforts, so that perfect harmony reigns instead of the discordant and ungainly mannerisms which previously prevailed.

The improvement which obtains as the course advances is a very marked one. The rythmical movements begun with the dumbbells showing a marked co-ordination with the vocal and breathing exercises, and as showing the force of habit, these are, in a modified form such as the bending of a finger, continued afterwards. The effect of deep breathing in developing the muscles of respiration is seen in the strong explosive effects during the vocal exercises. It sounds like the rush of a mighty wind when the order is given by Mr. Yearsley to expire.

The last half hour morning and afternoon is devoted to reciting and reading in company. The reading is done syllabically and in a measured utterance, syllable by syllable, by metronome measure at the rate of 80 strokes per minute, so that the first two weeks are taken up in the re-establishment of the normal use of the organs of speech. During the next two weeks the aim is to encourage the application of the principles relating to these exercises, and to test the pupils in their ability to give individual demonstrations in respiration, voice production, and physical and mental tranquility.

A continuity of the exercises is kept up by having a fixed time for each form of instruction, and a greater range now allowed by devoting more time to individual instruction. The last two weeks are taken up in the gradual perfection of the principles underlying these exercises. The pupils are trained to deliver written speeches, and to recite in a slow measured and deliberate manner.

To sum up the treatment, it is in

RESPIRATION, VOCALISATION, AND TRANQUILITY.

The average age of both boys and girls was 9 years, the average height and weight of the girls was somewhat greater than those of the boys. Boys $9\frac{1}{2}$ years old should stand 4ft. $2\frac{3}{4}$ in., and weigh 4st. 8lbs. The actual height of the boys in the class was 4ft. 2in., and the weight was 4st. $3\frac{1}{4}$ lbs., so they can be taken as a fair standard of the average healthy child. Girls at the same age measure 4ft. $2\frac{3}{4}$ in. and weigh 4st. 4lbs., whereas the average height of the girls in the class was 4ft. $3\frac{1}{4}$ in. or rather higher than the average, and weighed 4st. 5lbs., being exactly one pound more than the mean for the same age.

It is presumed therefore that the other measurements :—e.g. the chest girth—would follow out the average. One very good feature I am pleased to record is the absolutely clean condition of all their bodies. On my visits to the schools in the Borough I have never been satisfied with the condition of the children as regards general appearance ; the hair is towseled, faces and hands unclean, showing a want of material care which should not be. There can be no excuse for sending children to bed in an unwashed state, and if the child has the face, neck, and ears washed well the night before, little remains to be done next morning to be prepared for school ; yet I must say I am always disappointed on my visits. Then again the children's faces should be washed at noon and hair brushed. The hands will be dirtied because the children will join in the games peculiar to the season.

The general tone of the children was good. There were two boys of a decidedly lower mental calibre, yet it was astonishing with what interest and precision these two followed the exercises ; and strict disciplinarian as Mr. Yearsley is, the whole

class kept up their interest to the end. In fact the attendance all through was almost 100 per cent., and the children, instead of lagging were always too early, and ever ready to begin. It cannot be called easy either for teacher or pupil, but nothing deterred them; and to keep up the continuity of the lessons, a very important thing, they had to attend six days a week.

The respiratory range of the boys before having the lessons was 2.12 inches, and after the course this had increased to 2.87 inches, showing an increase of 0.75 inch, the same increase in the girls was $1\frac{1}{2}$ inch, or double that of the boys, which is accounted for by the fact that in females it is essentially chest breathing, and the tendency undoubtedly is to an increase in that part; whereas in boys it would be to enlarge the abdomen. This shows the value of the gymnastic part of the course as a great improvement in the physique took place. In every instance the pupils acquired an ease and regularity of speech, and they all lost the habit of stammering. Little peculiarities remained, such as the bending of a fore finger. This in time is given up, but there is no doubt the habit of stammering will be resumed unless some control is exercised by the parents and school teachers. Mr. Yearsley was always glad to welcome the teachers in the elementary schools to witness his methods, and he gave the pupils reading lessons to do at home under the special supervision of their parents, so there will be no excuse if any relapse into speech defect.



TABLE I.

No.	Name.	Age.	School.	Standard.	Height.	
					Before.	After.
1	Thomas Haslam	5 6/12	Bolton Road	2	3-5.50 ...	3-6.25
2	Albert Longworth ...	5 9/12	St. Cuthbert	1	3-5.25 ...	3-6.75
3	Rowe Atherton	5 10/12	Central	1	3-8.37 ...	3-9.62
4	William Slater	6	Vernon Street	3	3-5.12 ...	3-6.37
5	James Mytton	6 10/12	Vernon Street	2	3-9.00 ...	3-9.25
6	James Tattersall	7	Vernon Street	1	3-11.25 ...	3-11.75
7	Albert McCale	7	Highfield	1	3-8.00 ...	3-8.00
8	Norman Cooper	7 6/12	St. James	1	3-10.50 ...	3-11.00
9	Rudolph Kenyon ...	7 6/12	Trinity	1	3-11.50 ...	3-11.87
10	Benjamin Taylor ...	8 4/12	Vernon Street	2	3-11.00 ...	3-11.75
11	William West	8 7/12	Duckworth Street ...	2	3-11.12 ...	4-0.00
12	John A. Holden	8 9/12	St. James	3	3-10.00 ...	3-10.62
13	James McCann	8 11/12	St. Joseph	2	3-9.25 ...	3-9.37
14	William Shaw	9	Hollins Grove	3	4-2.25 ...	4-2.75
15	Harry Miller	9	St. John	1	4-0.25 ...	4-0.50
16	Fred Hamer	9	Duckworth Street ...	3	4-0.00 ...	4-0.62
17	John Crompton	9 3/12	Highfield	3	4-5.62 ...	4-6.25
18	William Worden	9 9/12	Earcroft	3	4-3.50 ...	4-3.87
19	William Woodcock ...	9 10/12	Culvert	3	4-1.12 ...	4-1.50
20	Joseph Nuttall	10	Sandhill	1	4-1.62 ...	4-1.75
21	William Roberts	10 5/12	Trinity	3	4-0.12 ...	4-1.00
22	Oliver Jones	10 9/12	Hollins Grove	5	4-3.75 ...	4-3.87
23	John B. West	10 9/12	Duckworth Street ...	4	4-4.75 ...	4-5.00
24	John Walsh	10 10/12	St. George	3	4-6.00 ...	4-6.50
25	Albert Farnworth ...	10 10/12	Trinity	4	4-4.37 ...	4-4.75

TABLE I.—(Continued).

No.	Name.	Age.	School.	Standard.	Height.	
					Before.	After.
26	Richard Parsons	11	St. Edward	4	4-5.12	... 4-5.62
27	Thomas Isherwood ...	11	Bolton Road	5	4-4.37	... 4-5.12
28	John Duxbury	11	Trinity	5	4-2.12	... 4-3.25
29	Allan Foley	11 5/12	Trinity	5	4-4.25	... 4-5.00
30	James Yates	11 5/12	St. Edward	4	4-7.50	... 4-7.50
31	Albert Holden	11 9/12	St. James	4	4-6.37	... 4-7.37
32	Norman Wolfenden...	12	Trinity	5	4-5.37	... 4-6.75
33	Wilfrid Harding	12 6/12	Trinity	5	4-6.37	... 4-7.37
34	Harry Hutchinson ...	12 6/12	St. Cuthbert	6	4-9.62	... 4-9.87
35	Frank Walkden	12 8/12	Duckworth Street ...	5	4-7.25	... 4-8.12
36	Thomas Gledhill	12 9/12	Belgrave	6	4-4.25	... 4-4.25
37	Samuel Oldham	13	Higher grade	7	4-9.63	... 4-9.75
38	Thomas Smethurst ...	13 6/12	Trinity	7	5-0.75	... 5-1.00
Average					4-2.05	... 4-2.31
1	Doris Metcalf	5 3/12	Vernon Street	1	3-7.75	... 3-8.50
2	Bella Williams	7	St. Cuthbert	1	3-7.50	... 3-7.62
3	Ethel Edwards	9 6/12	Sandhills	2	4-1.00	... 4-1.25
4	Martha Walsh	9 11/12	Culvert	4	4-2.50	... 4-2.62
5	Hazel Watson	10 9/12	Blackburn Road	4	4-7.37	... 4-7.50
6	Annie Watson	11 9/12	Trinity	5	4-7.00	... 4-7.37
7	Agnes Lord	13 4/12	St. Edwards	6	5-2.00	... 5-2.62
Average					4-3.30	... 4-3.64

TABLE II.

No.	Weight.		Before the Course. Chest Measurement.		Respiratory.	
	Before.	After.	After Expiration.	Normal.	After. Inspiration.	Range.
	st. lbs.	st. lbs.	ins.	ins.	ins.	ins.
1	2-13.00	2-12.75	20.25	21.00	21.50	1.25
2	3-0.25	3-0.50	21.00	21.75	23.00	2.00
3	3-5.00	3-4.75	21.25	23.00	23.25	2.00
4	2-11.00	2-12.50	20.25	20.62	21.50	1.25
5	3-4.00	3-4.75	20.75	21.00	22.75	2.00
6	3-11.50	3-10.25	21.25	22.12	23.75	2.50
7	3-3.00	3-4.00	21.50	21.50	22.00	0.50
8	3-8.00	3-9.12	21.00	21.50	23.25	2.25
9	3-13-50	3-11.50	23.50	24.00	25.75	2.25
10	3-6.00	3-5.00	20.75	21.25	22.62	1.87
11	3-5.00	3-3.00	22.25	22.50	24.00	1.75
12	3-4.50	3-5.25	22.25	23.00	23.87	1.62
13	3-3.50	3-3.75	20.75	21.00	23.25	2.50
14	3-11.50	3-9.75	23.00	23.25	25.00	2.00
15	3-9.00	3-8.50	22.25	22.25	24.00	1.75
16	3-8.00	3-8.75	21.00	22.00	22.75	1.75
17	4-8.25	4-8.37	22.75	23.50	25.25	2.50
18	4-4.00	4-3.75	22.50	23.00	25.00	2.50
19	3-11-00	3-11.50	22.75	23.12	24.62	1.87
20	4-7.00	4-7.75	23.25	24.00	25.62	2.37
21	4-2.00	4-2.75	22.25	24.25	24.50	2.25
22	3-4.00	3-5.25	21.50	21.75	23.50	2.00
23	4-1.00	3-13.50	22.50	23.00	25.75	3.25

TABLE II.—(Continued).

No.	Weight.		Before the Course. Chest Measurement.		After. Inspiration.	Respiratory. Range.
	Before.	After.	After Expiration.	Normal.		
	st. lbs.	st. lbs.	ins.	ins.	ins.	ins.
24	5-3.00	5-2.00	24.25	24.75	27.50	3.25
25	4-9.00	4-9.75	23.62	25.00	25.75	2.12
26	5-1.00	5-0.75	25.75	26.00	26.75	1.00
27	4-6.50	4-8.50	22.50	24.25	25.50	3.00
28	4-5.50	4-5.00	23.87	24.50	25.75	1.87
29	4-9.00	4-8.75	24.00	24.50	25.25	1.25
30	5-3.00	5-3.00	23.50	24.00	26.00	2.50
31	5-8.00	5-12.00	24.75	26.75	27.25	2.50
32	5-8.50	5-8.50	25.50	26.00	27.37	1.87
33	5-4.50	5-3.75	24.75	25.00	27.75	3.00
34	5-0.00	5-2.75	25.00	25.25	27.00	2.00
35	5-12.50	5-11.75	26.75	27.00	29.25	2.50
36	5-0.00	4-13.50	23.50	24.75	26.75	3.25
37	5-10.00	5-12.50	26.25	27.50	28.50	2.25
38	6-5.00	6-6.50	26.25	26.50	29.37	3.12
	4-3.25	4-3.50	22.37	23.50	25.00	2.12
1	2-12.50	2-13.25	19.50	20.25	21.00	1.50
2	2-9.75	2-9.75	18.50	19.50	20.00	1.50
3	3-8.50	3-8.00	21.25	21.75	23.75	2.50
4	3-13.75	3-13.75	21.50	22.00	23.25	1.75
5	5-1.50	5-1.50	23.25	24.00	24.75	1.50
6	5-1.25	5-2.25	22.00	23.00	24.75	2.75
7	7-1.50	7-1.75	26.50	27.75	29.25	2.75
	4-5.00	4-5.12	21.75	23.37	23.62	2.00

TABLE III.

No.	After the Course Chest Measurement.		After Inspiration.	Respiratory Range.	Present Health.	Diagnosis
	After Expiration	Normal.				
1	20.25	21.00	22.00	1.75	Good	Stammering.
2	21.00	21.75	23.50	2.50	do.	do.
3	22.00	23.00	23.75	1.75	do.	do.
4	20.00	20.75	22.50	2.50	do.	do.
5	20.75	21.00	22.75	2.00	do.	do.
6	21.62	22.25	24.00	2.37	do.	Stuttering.
7	21.50	22.75	23.25	1.75	do.	Stammering
8	21.00	21.50	23.50	2.50	do.	do.
9	23.50	24.00	25.75	2.25	do.	Stuttering
10	21.00	21.50	23.25	2.25	do.	do.
11	21.12	22.75	24.62	3.50	do.	Stammering
12	21.50	23.00	24.50	3.00	do.	do.
13	21.25	22.00	23.75	2.50	do.	Stuttering
14	22.00	23.25	25.00	3.00	do.	do.
15	21.50	22.25	23.75	2.25	do.	Stammering
16	20.50	22.50	23.25	2.75	do.	Stuttering
17	22.25	24.00	26.50	4.25	do.	Stammering
18	22.75	23.50	25.25	2.50	do.	do.
19	23.25	23.50	24.50	1.25	do.	Stuttering
20	23.00	24.00	25.00	2.00	do.	Stammering
21	21.25	24.25	25.00	3.75	do.	Stuttering
22	20.87	21.62	23.50	2.62	do.	do.
23	22.25	23.25	25.75	3.50	do.	Stammering
24	24.00	23.62	28.25	4.25	do.	Stuttering

TABLE III.—(Continued).

No.	After the Course Chest Measurement.		After Inspiration.	Respiratory Range.	Present Health.	Diagnosis.
	After Expiration	Normal.				
25	24.25	25.00	26.75	2.50	do.	Both
26	23.50	26.25	26.75	3.25	good	Stuttering
27	22.25	24.37	26.50	4.25	do.	do.
28	23.00	24.50	25.75	2.75	do.	Stammering
29	23.25	24.75	25.75	2.50	do.	do.
30	23.00	24.00	26.75	3.75	do.	Stuttering
31	24.50	26.75	27.50	3.00	do.	do.
32	25.25	26.00	27.50	2.25	do.	do.
33	23.62	24.62	28.50	4.87	do.	do.
34	24.00	25.50	27.50	3.50	do.	Stammering
35	26.37	27.00	29.62	3.25	do.	Both
36	23.12	25.00	26.75	3.62	do.	Stammering
37	26.50	27.50	29.50	3.00	do.	Stuttering
38	26.00	27.00	30.00	4.00	do.	do.
<hr/>						
	22.75	23.75	25.62	2.87		
<hr/>						
1	19.25	21.50	21.75	2.50	Good	Stammering
2	18.50	19.62	20.37	1.87	do.	do.
3	20.75	21.75	23.75	3.00	do.	do.
4	21.75	21.75	23.75	2.00	do.	do.
5	22.50	23.75	24.75	2.25	do.	Stuttering
6	22.75	24.50	26.00	3.25	do.	do.
7	27.00	29.00	29.75	2.75	do.	Stammering
<hr/>						
	21.62	23.12	24.25	3.50		
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TABLE IV.

No.	Commenced	Can he Sing without Stammering	Does he Articulate distinctly when not Stammering	Does he Lisp	Which Sounds give greatest difficulty
1	Infancy	Yes	Yes	No	All Consonants.
2	Infancy	Yes	Yes	No	P.H.B.D.T.
3	Infancy	Yes	Yes	No	Dentals
4	Four years old	Yes	Yes	No	Consonants
5	Infancy	Yes	Yes	No	Dentals
6	Infancy	Yes	Yes	No	Explosives and dentals
7	Infancy	Yes	Yes	No	Consonants
8	Infancy	Yes	Yes	No	Consonants
9	Infancy	Yes	Yes	No	Explosives
10	Infancy	Yes	No	No	All sounds
11	Six years old	Yes	No	Yes	Sounds S.P continuous
12	Infancy	Yes	Yes	No	Consonants
13	Five years old	Yes	Yes	No	Explosives
14	Infancy	Yes	No	Yes	All sounds
15	Six years old	Yes	Yes	No	Consonants
16	Infancy	Yes	Yes	No	Explosives
17	Five years old	Yes	Yes	No	Explosives
18	Infancy	Yes	Yes	No	Linguals
19	Infancy	Yes	Yes	No	Gutterels and Explosives
20	Six years old	Yes	Yes	No	Consonants
21	Infancy	No	No	No	Linguals
22	Seven years old	Yes	Yes	No	Dentals
23	Infancy	Yes	Yes	No	Open sounds, a.e.i.o.u.
24	Infancy	Yes	Yes	No	Consonants

TABLE IV.— (Continued).

No.	Commenced	Can he Sing without Stammering	Does he Articulate distinctly when not Stammering	Does he Lisp	Which Sounds give greatest difficulty
25	Infancy	Yes	Not very	No	All sounds
26	Five years old	Yes	Yes	No	Gutterels
27	Infancy	Yes	Yes	No	Explosives and Dentals
28	Infancy	Yes	Yes	No	Gutterels
29	Infancy	Yes	Yes	No	Explosives and Gutterels
30	Infancy	Yes	Yes	No	Explosives and Linguals
31	Infancy	Yes	Yes	No	Explosives and Dentals
32	Infancy	Yes	Not distinct	No	All Sounds
33	Infancy	Yes	Yes	No	Gutterals
34	Infancy	Yes	Yes	No	Gutterals and Dentals
35	Infancy	Yes	Yes	No	Consonants
36	Infancy	Yes	Yes	No	S.St.Sp.D.T.
37	Infancy	Yes	Yes	No	B.M. and Explosives
38	Infancy	Yes	Yes	No	All Sounds
1	Infancy	Yes	Yes	No	Consonants
2	Infancy	Yes	Yes	No	Explosives
3	Five years old	Yes	Yes	No	Linguals
4	Infancy	Yes	Yes	No	Gutterels
5	Five years old	Yes	Yes	No	All Consonants
6	Seven years old	Yes	Yes	No	Dentals and Gutterals
7	Infancy	Yes	Yes	No	Explosives and Gutterals

TABLE V.

No.	Temper- ament	Any organic defect.	Cause.	is he mentally defective	Does he make any Contortions
1	Quiet	No	Heredity	No	Face
2	Quiet	No	Heredity	No	Face
3	Quiet	No	Association Mimicry	No	Face
4	Quiet	No	Imitation	No	Arms and Feet
5	Quiet	No	Unknown	No	Face
6	Nervous	No	Nervousness	No	Face and Body
7	Quiet	No.	Heredity	No	Face
8	Quiet	No	Mimicry	No	Face
9	Nervous	Irregular Teeth	Unknown	No	Face and Body
10	Nervous	Roof of Mouth	Heredity	Yes	Face and Body
11	Quiet	No	Heredity	Weak	Lips Protrude
12	Quiet	No	Mimicry	No	Face
13	Nervous	No	Mimicry	No	Face and Body
14	Nervous	No	Nervousness	No	Face, etc.
15	Quiet	No	Mimicry	No	Face
16	Nervous	No	Nervousness	No	Body
17	Quiet	No	Scarletina	No	Face
18	Quiet	No	Heredity	No	Face
19	Nervous	No	Shock	No	Face and Body
20	Quiet	No	Heredity	No	Face
21	Nervous	Cleft Palate	Mimicry	No	Mouth
22	Nervous	No	Association	No	Face and Body
23	Quiet	No	Association and Heredity	No.	Face
24	Nervous	No	Association Mimicry	No	Face and Body
25	Nervous	No	Association	Yes	Face and Body

TABLE V.—(Continued).

No.	Temper- ament	Any organic defect.	Cause.	is he mentally defective	Does he make any Contortions
26	Nervous	No	Heredity	No	Face and Body
27	Nervous	No.	Not known	No	Face and Body pro- nounced
28	Quiet	No	Association Mimicry	No	Face
29	Quiet	No	Association Mimicry	No	Face pronounced
30	Nervous	No	Mimicry	No	Protrudes Tongue
31	Nervous	No	Nervousness	No	Face and Body
32	Nervous	No	Sickness	No	Face and Body
33	Nervous	No	Association Mimicry	No	Face and Body
34	Quiet	No	Imitating another boy	No	Face very bad
35	Nervous	No	Association Mimicry	Yes	Face and Body
36	Quiet	No	Association Mimicry	No	Protrudes lips
37	Nervous	No	Heredity	No	Face and Body
38	Nervous	No	Nervousness	No	Face and Body
1	Quiet	No	Association	No	Facial
2	Quiet	No	Association Mimicry	No	Facial
3	Quiet	No	Association Mimicry	No	Face and Swaying of Body
4	Quiet	No	Association Mimicry	No	Face
5	Nervous	No	Fright	No	Face
6	Nervous	No	Association and Nervousness	No	Face and Body
7	Quiet	No	Mimicry	No	Face

TABLE VI.

No.	Does he stand transfixed or rapidly repeat initial sounds	Is the defect aggravated by improper respiration.	After the Course. Are Contortions noticeable.	Is Stammering noticeable.
1	Stands transfixed	Yes	No	No
2	Stands transfixed	Yes	No	No
3	Stands transfixed	Yes	Face and arms	No
4	Stands transfixed	Yes	Arms	Slight hesitation
5	Unable to articulate	Yes	Fingers	No
6	Repeats initial sounds	Yes	Arm	No
7	Stands transfixed	Yes	Finger	No
8	Unable to begin	Yes	Finger	No
9	Repeats initial sound	Yes	Finger and Arms	No
10	Repeats initial sound	Yes	No	No
11	Stands transfixed	Yes	Fingers	No
12	Stands transfixed	Yes	Speaks slowly	No
13	Repeats initial sound	Yes	Arm	No
14	Repeats initial sound	Yes	Fingers	Lisps
15	Stands transfixed	Yes	Speaks slowly	No
16	Repeats initial sound	Yes	No	No
17	Stands transfixed	Yes	Arms and Fingers	No
18	Unable to begin	Yes	Speaks slowly	No
19	Repeats initial sound	Yes	Fingers	No
20	Cannot articulate	Yes	No	No
21	Stands transfixed and repeats initial sound	Yes	Arm	No
22	Repeats initial sound	Yes	No	No
23	Cannot articulate	Yes	Nervous	No
24	Repeats initial sound	Yes	Fingers	No

TABLE VI.—(Continued).

No.	Does he stand transfixed or rapidly repeat initial sounds	Is the defect aggravated by improper respiration.	After the Course. Are Contortions noticeable.	Is Stammering noticeable.
25	Stands transfixed and repeats first sound	Yes	No	No
26	Rapidly repeats initial sounds	Yes	Fingers work, inhalation forced	No
27	Rapidly repeats initial sound	Yes	No	No
28	Stands transfixed, unable to speak	Yes	No	No
29	Stands transfixed	Yes	Fingers, shouts	No
30	Repeats initial sound of each word	Yes	No	No
31	Repeats initial sound of each	Yes	Fingers	No
32	Repeats initial sound and stands transfixed	Very much	Fingers	Slight
33	Repeats initial sound	Yes	Indrawing of breath	No
34	Stands transfixed	Yes	No	No
35	Stands transfixed and repeats initial sounds	Yes	No	No
36	Stands transfixed	Yes	No	No
37	Rapidly repeats a syllable or word	Yes	No	Slight
38	Rapidly repeats a syllable or word	Yes	Shouts	No
1	Stands transfixed	Yes	No	No
2	Unable to commence speech	Yes	No	No
3	Stands transfixed	Yes	No	No
4	Unable to begin	Yes	No	No
5	Repeats initial syllable of each word	Yes	No	No
6	Repeats initial syllable	Yes	Fingers	No
7	Unable to begin	Yes	No	No

TABLE VII.
AFTER THE COURSE.

No.	Has Breath control improved	Has Physique improved.	Has he more confidence	Progress.
1	Imperfect	Yes	Yes	Good
2	Yes	Yes	Yes	Good
3	Yes	Yes	Yes	Good
4	Yes	Yes	Yes	Good
5	Yes	Has a large head	Yes	Good
6	Yes	Yes	Yes	Good
7	Yes	Yes	Yes	Good
8	Yes	Yes	Yes	Good
9	Yes	Yes	Yes	Good
10	Yes	Yes	Yes	Good
11	Yes	Yes	Yes	Good
12	Yes	Yes	Yes	Good
13	Yes	Yes	Yes	Good
14	Yes	Yes	Yes	Good
15	Slowly inhale	Yes	Yes	Good
16	Yes	Yes	Yes	Good
17	Yes	Yes	Yes	Good
18	Yes	Yes	Yes	Good
19	Yes	Yes	Yes	Good
20	Yes	Yes	Yes	Good
21	Yes	Yes	Yes	Good
22	Yes	Yes	Yes	Good
23	Yes	Yes	Yes	Good
24	Yes	Yes	Yes	Good

TABLE VII.—(Continued).

AFTER THE COURSE.

No.	Has Breath control improved	Has Physique improved.	Has he more confidence	Progress.
25	Yes	Yes	Yes	Good
26	Yes	Yes	Yes	Good
27	Yes	Yes	Yes	Good
28	Yes	Yes	Yes	Good
29	Yes	Yes	Yes	Good
30	Yes	Yes	Yes	Good
31	Yes	Yes	Yes	Good
32	Yes	Yes	Yes	Good
33	Yes	Yes	Yes	Good
34	Yes	Yes	Yes	Good
35	Yes	Yes	Yes	Good
36	Yes	Yes	Yes	Good
37	Yes	Yes	Yes	Good
38	Yes	Yes	Yes	Good
1	Yes	Dull	Yes	Good
2	Yes	Yes	Yes	Good
3	Yes	Yes	Yes	Good
4	Yes	Yes	Yes	Good
5	Yes	Yes	Yes	Good
6	Yes	Yes	Yes	Good
7	Yes	Yes	Yes	Good

Farms and Dairies.

The Inspectors, acting under my instructions have visited all the above buildings in the Borough. A large number of improvements have been made in improving the sanitary conditions, such as lighting, ventilation and drainage.

Careful supervision is also exercised over the water supplies. In some instances fresh supplies have been obtained, due to pressure being made by the inspectors.

Some samples of milk were taken, and in most cases found to be pure and undiluted. Mr. Walsh had two cases in Court, where cream had been extracted, and penalties inflicted.

One sample contained borate preservatives, and the farmer was cautioned not to offend again, as such drugs are not necessary, and may be injurious in the case of infants.

A sample of milk was sent to Professor Delépine, who examined it and found pus cells, pointing to the presence of mammary abscess, and indicating danger to persons using the milk. The farmer who lived outside the Borough limits was also cautioned.

We may possibly have increased powers of inspecting the farms outside the Borough, yet much good can be done by constantly inspecting our own farms, and endeavouring to keep the farmers up to a high standard of cleanliness, both personal and of the cattle and farm buildings.

Factories and Workshops.

These have all been visited by the Inspectors, and have been found clean and healthy.

Below is a list of Half-Timers in Lancashire and Yorkshire towns, the population of the towns at the last census, the total numbers, and the rate per 1,000 of the population are given.

We occupy the unenviable position at the top of the list, and I may say that these figures are from the Factory Report for 1904.

It is evident the parents of Darwen make great use of their children as wage earners. It would be better for the health of these children if they could go to school longer, and have more time in bed for rest and recuperation.

It is a common sight to see children of tender years about the streets at a late hour, and when they have to rise early to go to work, it must be deleterious to their growth and stamina.

Details of the work done in the workshops can be seen in the Government tables.

Many wholesale bakeries have been very much improved and enlarged. I had occasion last year to complain of the men during the meal hours, smoking and spitting in the rooms used for mixing. I drew the attention of the men, and cautioned them, so it has not been noticed since then.

HALF-TIMERS IN MILLS.

List showing the number of Half-timers and the rate per thousand of population :

Town.	Population. (Census, 1901)	No. of Half-Timers.	Rate per 1,000 of Population.
Darwen	38,212	623	16.30
Keighley	41,564	647	15.56
Haslingden	18,543	284	15.31
Bradford	279,767	4210	15.04
Nelson	32,816	442	13.46
Heywood	25,458	325	12.76
Blackburn	129,216	1530	11.84
Clitheroe	11,414	131	11.47
Bacup	22,505	250	11.10
Burnley	97,043	1042	10.73
Colne	23,000	246	10.69
Todmorden.....	25,418	264	10.38
Halifax	104,944	1018	9.70
Mossley	13,452	127	9.44
Preston	112,989	950	8.40
Accrington	43,122	348	8.07
Brighouse	21,735	168	7.72
Leigh	40,001	276	6.89
Chorley	26,852	180	6.70
Rochdale.....	83,114	543	6.53
Rawtenstall	31,053	200	6.44
Bolton.....	168,215	1068	6.34
Ashton-under-Lyne	43,890	270	6.15
Bury	58,029	323	5.56
Oldham	137,246	534	3.89

Black Smoke.

The large number of 335 Observations were taken by the Inspectors, and 7 prosecutions followed, and a large number of Statutory Notices sent out.

The average duration of emission of Black Smoke for the year was 2.95 minutes per hour, showing a great improvement over the previous, and over every year, confirming my remarks in the Annual Report for the previous year, when the limit of Black Smoke emission was reduced.

The action taken by the Council, and the supervision of the Inspectors caused many firms to provide and fix mechanical stokers to the boilers, making the atmosphere much clearer, and no doubt reducing the coal bills of the firms which have made the change.

Full particulars will be found in the separate reports of the Inspectors.



ANNUAL REPORT OF THE MEDICAL OFFICER OF HEALTH FOR THE YEAR 1907, FOR THE BOROUGH OF DARWEN.

On the Administration of the Factory and Workshop Act, 1901,
in connection with

FACTORIES, WORKSHOPS, LAUNDRIES, WORKPLACES AND HOMEWORK.

I.—INSPECTION.

Including Inspections made by Sanitary Inspectors or Inspectors
of Nuisances.

Premises.	Number of Inspections.	Number of Written Notices.
Factories (Including Factory Laundries) and Work- shops (including Workshop Laundries)	1102	..... 22
Workplaces.....	3	
Homeworkers. Premises	—	—
	1105	22

II.—DEFECTS FOUND.

Nuisances under the Public Health Acts—

Particulars.	Number of Defects.	
	Found.	Remedied.
Want of Cleanliness	15	..... 15
Want of Ventilation	6	..... 6
Overcrowding	— —
Want of Drainage of Floors	3	..... 3
Other Nuisances	9	..... 9

Particulars	Number of Defects.	
	Found	Remedied
Sanitary accommodation—		
Insufficient.....	8	5
Unsuitable or defective	3	3
Not separate for sexes	—	—
Offences under the Factory and Workshop Act—		
Breach of Special Sanitary requirements for		
Bakehouses	1	1
	—	—
Total	45	42
	—	—

IV.—REGISTERED WORKSHOPS.

Workshops on the Register at the end of the year 251

V.—OTHER MATTERS.

Class	Number
Matters notified to H.M. Inspector of Factories :—	
Failure to affix Abstract of the Factory and Workshop Act (s 133).....	
Action taken in matters referred by H.M. Inspector as remediable under the Public Health Acts, but not under the Factory and Workshop Act (s 5)—	
Notified by H.M. Inspectors	15
Reports (of action taken) sent to H.M. Inspector...	17
Underground Bakehouses :—	
In use at the end of the year	5

F. G. HOWARTH.

Medical Officer of Health.

INFECTIOUS DISEASES HOSPITAL.

PATIENTS IN HOSPITAL DURING 1907.

Name.	Address.	Age.	Disease.	Admitted.	Discharged.	Days.
William Fenton	10, Henry Street	3½ years	Scarlet Fever	1906 Dec. 18	1907 Feb. 4	48
Benjamin Fenton	10, Henry Street	6¼	"	" 24	" 4	42
Rachael A. Baron	38, Olive Lane	17	"	1907 Jan. 26	Mar. 19	52
Henry A. King	52, Olive Lane	16	"	Feb. 1	" 19	46
Robert King	52, Olive Lane	6	"	" 6	" 19	41
Bessie Turbott	47, Hindle Street	21	"	" 2	May 18	46
James Briggs	130, Lomax Street	67	Small Pox	" 17	Died May 18	31
John F. Stannard	6, Ratcliffe Street	34	Scarlet Fever	June 11	July 25	44
Eliza J. Holden	58, Harwood Street	31	"	Nov. 18	Dec. 31	43
Ellen Whittle	13, Joseph Street	13¾	"	" 26	" 31	35
John Whittle	13, Joseph Street	11¾	"	" 27	"	
Sarah J. Whittle	13, Joseph Street	19	"	Dec. 3	"	
May Brocklebank	14, Mari Street	3½	"	" 3	"	

TABLE (C).

COUNTY OF LANCASTER.

SUMMARY OF
Medical Officer's Report for 1907.

URBAN SANITARY DISTRICT OF DARWEN.

Area in Statute Acres.....	5,919
Population (Census) 1901	38,212
Population (Estimated) 1907	41,864

Name of Medical Officer of Health—FRED GEORGE HAWORTH,
M.B.C.M., D.P.H. Salary, £200.

	Males.		Females.		Total.
Births Registered	431	.....	445	.....	876
Deaths Registered (Nett Deaths belonging to the District) ...	280	.....	247	.....	527

Number of Illegitimate Births Registered, 29. Deaths of Illegitimates under
one year of age, 5.

Birth Rate, 20.92. Death Rate, 12.58. Rate of Infant Deaths, under one
year, to 1,000 Births, 118.

Death Rate from the seven principal Epidemic Diseases per 1,000 of population,
0.69.

Diseases prevalent ?—Scarlet Fever, Diphtheria and Enteric Fever slightly. Period ?
—Whole year.

What Action taken ?—Isolated in Hospital where possible. Any Schools Closed ?
—No

What is the character of the Hospital Accommodation ?—Isolation.

Is it Joint or otherwise ?—No.

Number of Beds available for your District ?—20 and 4 cots.

Number of cases treated ?—Small Pox, 1 ; Scarlet Fever, 10 : Total, 11.

Deaths in Hospital ?—One. From what cause ?—Small Pox.

How is Disinfection carried out ?—Houses, Sulphur chiefly : Clothing, Bedding, etc., Superheated Steam. Apparatus used ?—Washington Lyon's. Where situated ?—Bull Hill Hospital.

Number of Cases of Infectious Diseases Notified ?—84.

Are any Diseases not specially mentioned in the Act notifiable (for instance, Measles, Whooping Cough, Diarrhœa, Chicken Pox.) ? If so, what are they ?—No.

Has any arrangement been made for the "voluntary" notification of Phthisis ?—No.

Is Diphtheritic Anti-toxin supplied to Medical Practitioners free of charge ?—No. Supplied at Cost Price.

Action taken under "The Housing of the Working Classes Acts"—

No. of Houses condemned ?—4.

Closed ?—None.

Demolished ?—None.

Made habitable ?—4.

From where is the Water Supply obtained, and what is its condition ?—Upland Surface Water. Is it subject to your inspection ?—Yes.

Is Scavenging carried out satisfactorily ?—Yes. By Sanitary Authority or Contract ?—Sanitary Authority.

How is the refuse disposed of ?—Burnt in Destructor (Meldrum's). Has a Destructor been provided ?—Yes.

What is the character of Drainage and the form of Sewage Disposal, ?—Combined System, Bacteriological Treatment.

Canal Boats (Number Inspected, etc.) ?—None.

What is the condition of the Bakehouses ?—Good. An Improvement has taken place.

Slaughter-houses : Has a Public Abbatoir been provided ?—One Private, one Public.

Lodging Houses ?—One Municipal.

Dairies, Cowsheds, and Milkshops : Are they periodically inspected ?—Yes.

What is their condition ?—Good. Improving each year.

Have Regulations been made under the Order of the Local Government Board ?—Yes.

Are they enforced ?—Yes.

What amount of air space in cubic feet is required for each cow ?—600 cubic feet.

Food unfit for Human Consumption : Amount seized ?—20 lbs. Herring, 40 Mackerel, 2 sides Skate, 1 bag Mussels, 8 lbs. Tomatoes, 10 lbs. Grapes, 4 Beasts, 25 Sheep, 1 Calf, 1 Pig, also 2 tons 17½ cwts of Offal.

DEPARTMENT OF INSPECTORS OF NUISANCES.

Number of Notices served ?—844.

Nuisances remedied ?—1,688.

Number of Legal Proceedings taken and result ?—One. Order to abate.

CLOSET ACCOMMODATION OF THE DISTRICT.

Number of Privy Middens ?—None.

Pail Closets ?—6,150.

Fresh Water Closets ?—1,441.

Waste Water Closets ?—2,132.

Number of Privy Middens converted during 1907 ?

To W.C.'s—None.

To Pails, etc. ?—One.

SMOKE.

Number of Observations ?—335.

Number of Legal Proceedings taken and result ;—7—7 orders for abatement.

What is the time limit allowed for the emission of black smoke per hour ?—One, two, or three boilers—five minutes per hour ; four or more boilers—seven minutes per hour.

Has the Authority adopted—

- (a) “ The Infectious Diseases (Prevention) Act, 1890 ” ?—Yes, except Sections 5 to 11 inclusive and 15.
- (b) “ The Public Health Acts Amendment Act, 1890 ” ;—Yes, except that relating to music and dancing.
- (c) “ The Notification of Births Act, 1907 ” ?—Yes. The Act came into force on March 16th, 1908.



STATISTICS FROM LANCASHIRE LARGE TOWNS.

TOWN	Estimated Population 1907	Birth Rate (per 1000)	Death Rate (Crude)	Death Rate (Corrected)	Zymotic Death Rate	Respiratory Death Rate	Phthisis Death Rate	Death Rate from other Tubercular Diseases	Infantile Death Rate per 1000 births	Cancer Death Rate
Accrington	45,500	22.59	13.91	14.57	0.83	2.58	0.83	0.48	107	1.05
Barrow-in-Furness	69,733	25.91	12.12	12.19	1.29	2.1	0.9	0.81	111	0.39
Blackburn	134,438	24.9	17.4	17.0	2.4	3.7	0.9	0.6	151	0.8
Bolton	182,917	24.4	16.7	18.8	2.40	3.26	1.01	0.38	147	0.65
Bootle	69,200	31.3	15.7	...	1.8	...	1.1	...	123	...
Burnley	103,947	28.7	17.4	...	1.38	4.08	1.36	0.66	156	0.67
Bury	58,901	22.68	17.55	15.94	1.27	2.80	1.12	0.49	135	0.88
Lancaster	46,031	23.24	15.09	...	2.48	2.77	1.05	0.48	143	0.73
Liverpool	746,144	31.7	18.3	19.5	1.99	4.08	1.49	0.52	143	0.81
Oldham	141,730	26.5	20.2	19.3	1.5	4.5	1.6	...	144	...
Rochdale	88,000	23.82	...	16.96	1.04	...	1.28	...	120.6	...
Salford	236,670	29.4	17.8	17.8	2.1	4.3	1.6	0.6	140	0.7
St. Helens	92,476	34.1	18.3	18.3	2.87	4.02	1.10	0.82	156	0.60
Wigan	90,765	30.05	19.29	16.37	2.58	4.42	0.92	0.41	163	0.58
DARWEN	41,864	20.92	12.08	12.58	0.69	3.63	0.83	0.19	118	0.86



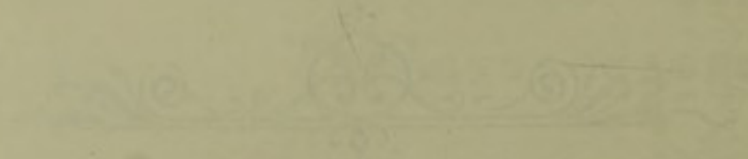
I take this opportunity in presenting my Report to acknowledge the very great kindness, consideration and help which I have at all times received from the Members of the Health Committee, and from all the Officials of the Corporation.

And beg to remain, Gentlemen,

Your very obedient servant,

F. G. HAWORTH.

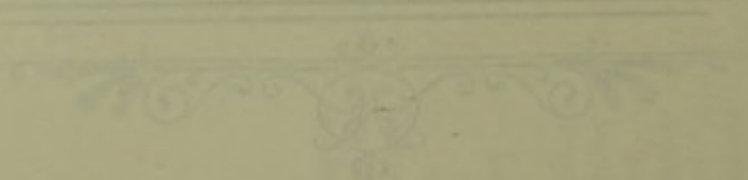




I have the honor to acknowledge the receipt of your letter of the 10th inst. and in reply to inform you that the same has been forwarded to the proper authorities for their consideration.

I am, Sir, very respectfully,
Your obedient servant,
J. A. B. B. B.

Very respectfully,
J. A. B. B. B.





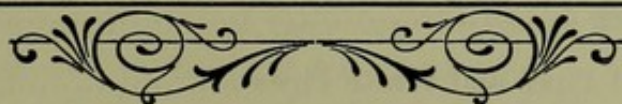
REPORTS

OF THE

Inspectors of Nuisances,

FOR THE

YEAR ENDING DECEMBER 31ST, 1907.



SANITARY DEPARTMENT

Municipal Offices, Darwen,

March, 1908.

TO THE CHAIRMAN AND MEMBERS OF THE COMMITTEE.

GENTLEMEN,

I have pleasure in presenting my Seventeenth Annual Report, giving particulars of the work carried out under my supervision during the year 1907 in administering the various Public Health Acts and Bye Laws in force within the Borough.

NUISANCES.

The following list gives the nature of Nuisances, etc., dealt with:—

No. of Nuisances dealt with.....	929
Preliminary Notices served.....	553
Legal Notices served.....	412
Nuisances abated.....	841
Re Inspections	1935
Complaints received.....	130
Complaints attended to.....	126
Houses inspected	8766

The following list gives the different kinds of nuisances dealt with by notices:—

Defective Drains	93
Uneven Gullies	84
Defective Soil Pipes and Waste Pipes	13
Defective Easing Troughs and Down Spouts	109
Insanitary Yards	64
Dirty Houses and Premises.....	131
Dirty and Delapidated Closets	21

Accumulations of Refuse	48
Nuisance from Keeping Animals.....	9
Insanitary Ashpits.....	31
Ash Tubs without Covers.....	42
Broken Slop Pipes.....	87
Choked W. W. C.'s.....	46
Broken Ash Tubs.....	13
Insufficient Ventilation	32
Dangerous Buildings	3
Convert Pails to W.C.....	20
Insufficient Closet Accommodation	16
Overcrowding.....	5
Abolish Cesspools	12
Miscellaneous	13

Back to back property, large open yards and all poor class property within the Borough has been kept under close inspection, and such nuisances as were discovered were immediately dealt with.

In many cases where defective drainage was found the smoke test was applied, and some were found to be defective. Notices were served and defects carried out.

INFECTIOUS DISEASES.

During the year I had reported to me for investigation 45 cases of Disease, this being a decrease of 4 as compared with 1906.

The premises at which the cases occurred were carefully inspected. Printed and verbal instructions were given as to the proper means of isolation of infected persons, etc. At the termination of each case the rooms were fumigated, and the infected bedding removed to Hospital for disinfection.

5 cases of Scarlet Fever were removed to Hospital, and one case of Small Pox.

SMALL POX.

On April 17th I received information from the Medical Officer that a case of

Small Pox had broken out in Lomax Street. I immediately visited the premises, made very careful enquiries as to the case and the movement of the patient for the previous 14 days, but was not successful in discovering the cause of the outbreak.

I removed the patient, a man named James Briggs, aged 67, Coal Heaver, Darwen Station, to the Bull Hill Hospital, the same evening.

The other inmates of the house were vaccinated, and kept under supervision for some days, and I am pleased to say there was no further outbreak.

A full report of the case was submitted to the Health Committee at the time.

The following Tables give the nature and number of the Diseases for 1906-7 and the Notification in each Ward for 1906, 1907—

	Scarlet Fever			Typhoid Fever			Puerperal Fever			Erysipelas			Diphtheria			Small Pox	
	1906	1907		1906	1907		1906	1907		1906	1907		1906	1907		1906	1907
January	5	1	...	3	2	...	0	0	...	0	0	...	3	3	...	0	0
February	3	2	...	0	0	...	1	0	...	1	0	...	2	6	...	0	0
March	1	0	...	0	1	...	1	0	...	2	1	...	2	0	...	0	0
April	2	3	...	0	0	...	0	0	...	1	0	...	1	2	...	0	1
May	3	1	...	0	0	...	0	0	...	0	0	...	2	0	...	0	0
June	0	3	...	0	0	...	0	0	...	0	0	...	0	1	...	0	0
July.....	1	0	...	0	0	...	0	0	...	0	2	...	1	0	...	0	0
August	2	0	...	0	1	...	0	0	...	1	0	...	0	0	...	0	0
September	2	0	...	0	0	...	0	0	...	1	0	...	0	0	...	0	0
October	1	0	...	1	1	...	0	0	...	0	0	...	1	2	...	0	0
November	0	0	...	1	3	...	0	0	...	1	0	...	1	0	...	0	0
December	0	2	...	1	3	...	0	0	...	0	2	...	1	2	...	0	0
	20	12	...	6	11	...	2	0	...	7	5	...	14	16	...	0	1

	Central			South- East			South- West	
	1906	1907		1906	1907		1906	1907
Scarlet Fever	9	6	.....	10	4	.....	1	2
Typhoid	2	3	.....	2	4	.....	2	4
Puerperal	0	0	.....	1	0	.....	1	0
Eryseplas	4	2	.....	2	1	.....	1	2
Diphtheria	3	2	.....	4	9	.....	7	5
Small Pox	0	1	.....	0	0	.....	0	0
	18	14	.....	19	18	.....	12	13

The following is a list of Bedding removed to Hospital for disinfection :—

	Beds	Mattresses	Bolsters	Pillows	Quilts	Blankets	Sheets	Suits of Clothes	Carpets	Rugs	Curtains	Cushions	Shawls	Sundries
January	3	4	3	8	4	6	4	...	2	1	...	...	...	23
February.....	3	2	2	2	3	7	...	...	...	...	...	...	...	5
March	8	5	8	5	7	6	1	...	2	...	...	...	...	3
April	3	4	3	2	2	2	...	...	...	...	...	...	...	18
May .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
June	3	...	2	2	2	4	2	...	...	...	...	...	...	3
July	3	2	2	2	1	2	...	...	...	...	...	...	...	4
August	1	2	1	2	1	...	...	...	...	...	1	...	...	3
September	1	2	1	2	...	...	...	...	...	...	...	...	...	...
October	1	1	2	...	...	...	...	...	...	...	...	...	...	...
November .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
December	7	1	7	10	7	10	11	...	...	...	...	1	3	21
	33	23	31	35	27	37	18	...	4	1	1	1	3	80

FACTORIES, WORKSHOPS, BAKEHOUSES, LAUNDRIES, ETC.

During 1907 I made 545 inspections under the Factory Acts, and found them in a very fair sanitary condition.

Bakehouses and places where wearing apparel was made received frequent visits and were found in a clean condition.

Workshops were reported to H.M. Inspector of Factories, and visits were made in company with the Inspectors.

The following is a summary of visits and notices :—

Premises.	No. of Inspections.	Notices sent.
Factories and Workshops	545	
Homeworkers Premises	1	

DEFECTS FOUND.

NUISANCES UNDER THE PUBLIC HEALTH ACTS.

Particulars.	Number of Defects.	
	Found.	Remedied.
Want of Cleanliness	7	7
Want of Ventilation	3	3
Overcrowding .....	...	...
Want of Drainage of Floors	2	2
Other Nuisances	1	1
Sanitary Accommodation Insufficient	2	1
Without Sanitary Accommodation	2	2
Breach of Sanitary Requirements for Bake- houses	1	1
Notices from H. M. Inspector of Factories	9	...
Workshops on Register	119	...

FARMS AND DAIRIES.

The whole of the Dairies and Cowsheds which are Registered under the Regulations made by the Local Authority have been periodically visited, and many improvements have been carried out, full reports of which have been submitted to the Health Committee, at its monthly meetings.

The following is a list of Nuisances found and remedied :

	Defects.	
	Found.	Remedied.
Insufficient Ventilation	8	7
Defective Roof of Shippon	2	2
Defective Easing Troughs and Dwnspouts ...	4	3
Defective Water Supply	1	1
Defective Drainage	9	8
Gullies in Shippon requiring removal	14	14

	Defects.	
	Found.	Remedied.
Gullies in Dairy requiring removal	3	3
Limewash and Cleanse	9	9
Defective Slop-pipe	2	2
Insanitary Manure Pit	2	1
Shippon Flagging and Pavement Defective ...	3	3

BLACK SMOKE.

During the year 1907, I have taken 159 Observations against 164 in 1906.

There has been a great improvement made as regards the emission of black smoke, as the figures given below will show as compared with previous years.

I give the number of Observations for previous years and the average black smoke .

Observations.				Average No. of Minutes Black
1900	.....	41	.....	$10\frac{1}{4}$
1901	.....	129	.....	8
1902	.....	14	.....	6
1903	.....	15	.....	$6\frac{1}{2}$
1904	.....	4	.....	$9\frac{1}{4}$
1905	.....	30	.....	$6\frac{1}{4}$
1906	.....	164	.....	$6\frac{1}{4}$
1907	.....	159	.....	$3\frac{3}{4}$

The following is a list of Observations at each Mill, with the averages of Black Moderate, and Not Smoking.

Each Observation was of 1 hours duration.



SMOKE OBSERVATIONS, AVERAGES &c., 1907.

MILL.	No. of Observa- tions.	Average.			Boilers.	Apparatus.
		Black	Mod.	None		
Albert	7	4	14	41½	2	Hand.
Bowling Green	5	4½	18	37	3	Hand.
Brittannia	8	4½	16½	39	1	Bennis.
Culvert	2	2½	14	42½	1	Hand.
Cotton Hall	2	1½	15	43½	1	Bennis.
Darwen Spinning, Balle Street	6	3½	15½	41	2	Courts turner
Ellenshaw	4	3	13½	44	1	Hand, patent bars
Greenfield new	3	4	13½	42	1	Procters.
Greenfield old	2	4½	14	22	1	Procters.
Hampden Mill	5	2	14	43½	1	Procters.
Highfield	6	4	15	41	1	Hand.
Hanover Mill	3	1½	11	47	1	Bennis.
Holme Mill	8	2½	14½	42½	1	Procters.
Hope Mill	5	3½	14	42½	2	Hand.
India Mill	5	4½	14	41½	5	Hand.
Industry Mill	3	3½	16	40½	1	Hand.
Darwen Paper	4	7½	19½	33½	6	Hand.
Marsh House	3	2½	15½	42	1	Hand
No. 1 Spinning	9	3½	14½	41½	2	Whittakers.
New	4	6	15	38½	2	Hand.
New Bridge	4	3½	14½	42½	1	Whittakers.
Primrose	5	2½	13½	44½	1	Procter.
Progress	4	2	13	45	1	Whittakers.
Rose Mill	4	3½	14½	42½	1	Procters.
Springfield	4	3½	13½	43	1	Hand
Spring Vale Tall Chimney	2	8½	17	34½	4	Hand.
Spring Vale Low Chimney	2	7½	14½	37½	3	Hand.
Sudell Side Mill	4	3½	14½	42	1	Procters.
Starkie Street	6	4½	15½	40½	1	Hand.
South Street	5	4½	15½	40½	2	Hand.
Tackfield	5	3½	15½	40½	1	Hand.
Two Gates	3	3½	11½	42½	1	Procters.
Vale Brook	7	5	15½	36½	1	Hand
Whitehall	4	3	14½	42½	1	Bennis.
Waterfield	4	3½	14	42	1	Grimshaw.

It was necessary to serve 18 Legal Notices to abate Smoke Nuisances, and in 2 cases orders were made by the Magistrates to abate Nuisances.

CARAVANS AS DWELLINGS.

The Caravans which have settled on the Market Ground have necessitated inspections, and they have been found in a very clean condition.

It has not been found necessary to complain, or issue any notice for any breach of the Health Acts.

INSPECTION OF FOOD, ETC.

I have paid very close attention to the Fish, Fruit, and Meat, which is exposed for sale in various parts of the Borough, and also on the Market Ground.

I have condemned the following as being unfit for food :—

20 lbs. Herring.	40 Mackerel.
2 Sides of Skate.	8 lbs. Tomatoes.
1 Bag Mussels.	10 lbs. Grapes.

I took three samples of Milk under the Foods and Drugs Acts, and they were, after Analysis found to be genuine.

HACKNEY CARRIAGES.

As Hackney Carriage Inspector for the Borough I have issued the following Licenses :—

Licenses for Tramcars.....	8
Licenses for Hackney Carriages	6
License for Motor Car	1
Licenses for Tram Drivers	30
Licenses for Tram Conductors	20
Licenses for Hackney Conductors	1
Licenses for Hackney Drivers	6
Licenses for Motor Car Drivers	1
Licenses for Motor Car Conductors	1

During the year I submitted supplementary reports to the Committee on Insanitary Property, Farms and Dairies, Workshops and Infectious Diseases.

I have periodically visited the whole of the Day Schools, and fully reported as to their condition to the Education Office.

It has only been necessary to take out proceedings in one case as regards nuisances, viz. :—Insanitary Property in Riley Street, and by order of the Magistrates No. 5 Riley Street was closed in July 1907, and is still closed till the work is carried out.

I am, Gentlemen,

Your obedient servant,

WILLIAM E. MARSDEN.

Cert. Royal San. Inst.

February, 1908.

Northern District.

TO THE CHAIRMAN AND MEMBERS OF THE HEALTH COMMITTEE.

GENTLEMEN,

I beg to submit a Report to you of the work carried out in the District during the year ending December 31st, 1907.

The District is comprised of North-East, North-West, and West Central Wards.

The following Table gives the number of houses in each Ward at the last Census, and also shows the increase up to January, 1908.

Ward	Houses in occupation Census, 1901.	Uninhabited Census 1901.	Building Census 1901.	Total No. Census.	Total No. Jan. 1908. not including lock-up shops, etc.	Increase from Census Jan. 1908.
W.C.	803	97	6	906	947	41
N.E.	1953	56	21	2030	2203	173
N.W.	1153	21	7	1181	1600	419
Total.	3909	174	34	4117	4750	633

It will be seen from the above Table that the greatest increase has taken place in North-West Ward, consequent upon the opening up of two large estates for building purposes.

INFECTIOUS DISEASES.

There were 39 Cases reported as against 57 during 1906, as follows:—

Ward.	Scarlet Fever.		Typhoid Fever.		Dipt- theria.		Erysi- pelas.		Puerperal Fever.		Total.	
	1906	1907	1906	1907	1906	1907	1906	1907	1906	1907		
West-Central ...	6	3	2	1	1	2	1	2	0	0	10	8
Horth-East	11	3	8	3	3	2	5	6	1	0	28	14
North-West	13	8	1	6	0	2	4	1	1	0	19	17
Total ...	30	14	11	10	4	6	10	9	2	0	57	39

I removed 5 Persons suffering from Scarlet Fever to the Hospital, or 35 per cent. of those reported in the District.

Immediately upon the receipt of Notification of cases of Infectious Diseases I visit the houses and made a thorough examination of the premises, any defects discovered in the drainage or sanitary arrangements I cause to be remedied as quickly as possible.

Further, I obtain a list of the family, ascertaining where the respective members are employed, the schools attended by the children, and the source of the milk supply, etc., noting particularly where the patient has been prior to the commencement of the illness, with a view to ascertaining, if possible, the source of infection. In making these investigations I discovered that four of the Typhoid Fever patients had eaten mussels, some 12 to 14 days prior to the commencement of the illness. I reported the matter to the Medical Officer of Health, who ascertained that the foreshore of a district from whence large consignments of Mussels were sent to this district was contaminated with sewage, and the beds were then being destroyed.

Four other Cases of Typhoid occurred in houses where a patient had previously been reported as suffering from the disease

SCARLET FEVER.

Three Cases occurred in a house where a child was taken in to nurse during the day. This child had been ill, and when examined was found to be peeling. A Doctor was called in, and he certified the case as Scarlet Fever.

At the termination of each case of infectious disease (including Phthisis) the rooms were thoroughly cleansed and disinfected, and the bedding, etc., conveyed to Bull Hill Hospital, and disinfected in the Super-Heated Steam Disinfector.

During the year 36 loads of Bedding, etc., were disinfected. The following List gives the number and kind of articles treated :—

Beds	Mattresses	Bolsters	Pillows	Quilts	Blankets	Sheets	Suits of Clothes	Carpets	Rugs	Curtains	Cushions	Shawls	Sundries	TOTAL
45	10	46	54	48	72	23	1	3	0	2	9	2	92	407

In accordance with your instructions and the general order of the Local Government Board I have endeavoured, by systematic inspection, to keep myself informed in respect of any Nuisances existing in the District, as the following summary will show :—

SUMMARY OF NUISANCES DEALT WITH IN THE DISTRICT.

New Drains Constructed.....	15
Defective Drains Repaired or Relaid.....	137
Waste Pipes Trapped and Disconnected from Drains.....	2
Defective Soilpipes Repaired.....	3
Defective Water Closets Repaired.....	8
Defective Roofage, Downspouts and Easing Troughs Repaired.....	83
Insanitary Yards Flagged.....	55
Dirty Houses and Premises Limewashed, etc.....	84
Houses Insufficiently Ventilated and Overcrowded.....	19
Filthy Closets Limewashed and Cleansed.....	31
Insufficient Closet Accommodation.....	30
Accumulations of Refuse Removed.....	61
Nuisances Arising from the Keeping of Animals.....	6
Choked Waste Water Closets Cleansed and Repaired.....	43
Insanitary Ashpits Abolished and Tubs or Bins Provided.....	31
Ashtubs Provided with Covers.....	40
Broken Slop Pipes Repaired.....	42
Dangerous Buildings Repaired or Rebuilt	18
Broken Ashestubs Repaired etc	27
Broken Closet Receptacle Doors Repaired	51
No Water Supply	5
Factory Chimneys emitting Black Smoke beyond Time Limit	19
Nuisances of a Miscellaneous Character	10
Total Number of Nuisances Discovered in District	803
Letters Written Respecting Nuisances, etc.....	117
Preliminary Notices Served Respecting Nuisances	516
Legal Notices Served Respecting Nuisances.....	432

Number of Re-inspections	3411
Number of Nuisances Abated (including outstanding Nuisances discovered in 1906)	847
Number of Houses and Premises Inspected	7673
Number of Inspections of Refuse Tips.....	65
Number of Inspections of Schools and Public Buildings	85
Complaints Received and Investigated	117

COMPLAINTS.

- You will observe that 117 Complaints were received and investigated during the year. In a few instances I found the cause of the smell complained of was a leakage in the Gas Mains in the roadway. These I immediately reported to the Gas Manager, and they were repaired at once.

In three instances I found old disused rubble drains passing under the houses. These were connected to the river, and acted as rat runs and air passages, as a result very foul odours found their way into the houses. I caused the goits to be cut off. Many of the Complaints referred to Choked Waste Water Closets and drains. The Nuisances were dealt with as speedily as possible.

During the year I have had to report various owners of property to the Committee for non-observance of Legal Notices which had been served upon them. Warning letters were sent in each case by the Town Clerk. I am pleased to say the letters were effectual in securing the abatement of the Nuisances, without having to resort to magisterial proceedings.

OVERCROWDED HOUSES.

I have periodically inspected the whole of the houses in the poorer parts of my district, and ascertained the size of each house, and the number of occupants.

Many cases of overcrowding were found to exist. I submitted detailed reports to the Committee, with the result that many Statutory Notices were served upon the occupiers, calling for the abatement of the nuisance. Three persons were ultimately summoned before the Magistrates, and Fines amounting to £4 1s. 0d. were imposed, together with orders to abate.

I have also reported Cases of Neglect of Children to the Inspector of the N.S.P.C.C. and gave evidence in one case of prosecution undertaken by the Society.

DAIRIES, COWSHEDS, AND MILKSHOPS.

The whole of the Farms, etc., in the Northern District were kept under constant supervision during the year. The Dairies, Cowsheds and Milkshops Regulations have been strictly enforced, resulting in the following improvements having been effected :—

Lighting and Ventilation of Shippons Improved.....	4
Shippon Pavement Re-laid and Repaired.....	2
Drains Re-constructed.....	1
Defective Drains Repaired.....	2
Drains Removed from Dairies and Shippons.....	2
New Middensteads Constructed.....	1
Dirty Shippons Limewashed.....	8
Repairs to Roofage of Shippons.....	2
Shippon Overcrowded.....	1

There is, however, still considerable room for further improvement, both in the Cowsheds and in the methods of milking, in order that the milk supplied to the people may be pure. To this end it is necessary that the following conditions should obtain :—The Cows should be healthy, clean, and well fed ; the Shippons light, airy, well paved, and drained ; the Water Supply pure ; the Milking clean.

A wholesome and efficient Water Supply is of paramount importance. I have, therefore, continued the examination of the various sources of supply commenced a few years ago, and in my monthly reports the results of my Observations have been stated in detail. In one instance the water was contaminated with impurities of an organic nature. I drew the owners attention to the matter and I am pleased to report that a supply of water has been obtained from another source, which appears to be satisfactory.

At another Farm I found the Slop Water being discharged into a stream which partially supplies a Farm below. I caused the Slop Water to be turned into the liquid manure tank. Possible scources of danger to public health have therefore been removed.

Three Farmers have applied to be registered in the District as purveyors of Milk under the Dairies, Cowsheds and Milkshops Orders. Previous to registration the Farms, etc., were thoroughly inspected, and in some cases certain structural improvements were recommended.

When making my inspections I have delivered at each Farm copies of the Regulations under the Dairies, Cowsheds and Milkshops Orders, also Leaflets respecting the Diseases of Cattle, etc., published by the Board of Agriculture.

BLACK SMOKE NUISANCE.

The Nuisance arising from the Emission of Black Smoke from Factory Chimneys has received my special attention. During the year I have submitted reports of 176 Observations, each of one hour's duration. The following is the time limit :—

One, Two, or Three Boilers, 5 Minutes per hour.

Four, or more Boilers, 7 Minutes per hour.

From the following particulars you will observe that Black Smoke was emitted in excess of the time limit from the Chimneys of 19 factories. Statutory Notices were served, calling for the abatement of the nuisance, and in five instances legal proceedings were instituted under the direction of the Council for non-compliance with the notices. The Justices convicted in each case, and "Orders to Abate" were issued, the defendants paying costs amounting to £2 10s. 6d.

The Analysis of the Observations show an average Emission of Black Smoke of 2.15 minutes per hour. The Average for the last three months of 1906 was 3.4 minutes per hour, during which period the same time limit was in force.

We may, therefore, conclude that the gradual improvement of 1906 has been more than maintained, and the great amount of time spent has not been in vain.

At the following Mills Mechanical Stoking Apparatus has been fixed to the boilers during the year, viz, :—Radford, Hollins Grove, Provident.

On October 31st the owners of two large traction engines were prosecuted by order of the Council for allowing the engine to emit Black Smoke, whilst travelling through the town. The magistrates imposed a penalty of 5/- and costs.

Particulars of Observations taken during the Year.

Mill	Black Smoke	Moderate Smoke	Slight Smokes	Not Smoking	Date reported to Committee	Legal Notices served	No. of Boilers	Stoking Apparatus
Anaglypta	4½	10	5	40½	Jan'y. 24...	—	1	Hand fired
"	4	7½	12½	36	March 21...	—	...	"
"	3	8	11½	37½	April 25...	—	...	"
"	0½	8	8	43½	Aug. 22...	—	...	"
"	1½	8	12	38½	Oct. 17...	—	...	"
Anchor	1	4	31	24	March 21...	—	1	Bennis's
"	0	0	18	42	June 20...	—	...	...

Particulars of Observations taken during the Year.—(Continued).

Mill	Black Smoke	Moderate Smoke	Slight Smoke	Not Smoking	Date reported to Committee	Legal Notices served	No. of Boilers	Stoking Apparatus
"	0	1	28	31	Aug. 22...	—	...	
Barley Bank	3½	6½	15	35	Jany. 24...	—	1	Hand fired
"	0½	11½	10	38	Feby. 21...	—	...	
"	2	10	12	36	March 21...	—	...	
"	1	7	11	41	May 23...	—	...	
"	3½	9	6	41½	July 8...	—	...	
"	7½	17	7	28½	Sept. 26...Oct. 8...	—	...	
"	7	7	4½	41½	Nov. 21...	—	...	Prosecuted Dec. 19th, "Order to Abate"
Bank Top	1	15	37	7	April 25...	—	...	Proctors
"	0½	11½	20½	18½	June 20...	—	...	
"	2½	9	27	21½	Sept. 26...	—	...	
"	4	19½	16½	20	Dec. 19...	—	...	
Belgrave	6	7	19	28	Jany. 24...Feb. 5...	—	3	Bennis's Stoker with mov- able bars, fixed to one boiler only
"	0	0	17	43	May 23...	—	...	
"	0½	2½	31	26	June 20...	—	...	
"	0½	3½	19½	36½	Sept. 26...	—	...	
Belgrave (South)	3	8½	18	30½	March 21...	—	3	Proctor's Stokers, Sprink- lers only
"	1½	6	44½	8	April 25...	—	...	
"	6	7½	14	32½	June 20...July 2...	—	...	
"	3½	9	12	35½	Sept. 26...	—	...	
"	4	11	12½	32½	Dec. 19...	—	...	
Bottom Croft	7	18	11½	23½	Jany. 24...Feby. 5...	—	2	Hand fixed
"	2½	13	10½	34	June 20...	—	...	The Court-Turner Smoke Preventing apparatus has been fixed to each boiler
"	5	15½	16½	23	July 8...	—	...	
"	0	10	25½	24½	Sept. 26...	—	...	
"	2	14½	17	26½	Oct. 17...	—	...	
"	2	14	11½	32½	Dec. 19...	—	...	
Brookside	3½	19	9½	28	March 21...	—	1	Hand fired
"	4½	17	11½	27	April 25...	—	...	
"	1½	7½	20½	30½	May 23...	—	...	
"	2	15	19½	23½	July 8...	—	...	
"	4½	23½	12	20	Sept. 26...	—	...	
"	5½	22	7	25½	Oct. 17...Oct. 29...	—	...	
"	4	19	11½	25½	Dec. 19...	—	...	
Carrs	0	0	19½	40½	Jan. 24...	—	2	Bennis's
"	0½	5	26½	28	March 21...	—	...	
"	0	6	33	21	May 23...	—	...	
"	0	0	39	21	June 20...	—	...	
"	0	12½	38½	9	Sept. 26...	—	...	
Cobden	1½	6½	28	24	Feby. 21...	—	1	Proctor's Stoker with mov- able bars
"	0	5	25	30	March 21...	—	...	

Particulars of Observations taken during the Year.—(Continued).

Mill	Black Smoke	Moderate Smoke	Slight Smoke	Not Smoking	Date reported to Committee	Legal Notices served	No. of Boilers	Stoking Apparatus
"	1	8	5	46	June 20...	—	...	
"	0	0	18	42	Aug. 22...	—	...	
"	0	0	19	41	Oct. 17...	—	...	
Cotton Hall Spinning	0	4	36½	19½	March 21...	—	2	Bennis's Stoker movable bars
"	0	1	31	28	May 23...	—	...	
Cotton Hall Weaving	2	8½	17	32½	Feby. 21...	—	1	Proctor's Stoker, movable bars
"	1	4	26½	28½	April 25...	—	...	
"	3	4	28	25	May 23...	—	...	
"	1½	11	20½	27	July 8...	—	...	
"	1	9	23	27	Oct. 17...	—	...	
"	0	5	26	29	Nov. 21...	—	...	
Dove	3½	15	7	34	Jany. 24...	—	1	Hand fired
"	6½	24	9½	20	Feby. 21... Mar. 6...	—	...	
"	0½	3½	10½	45½	May 23...	—	...	
"	2½	6	11	40½	Aug. 22...	—	...	
"	1½	12	16	30½	Dec. 19...	—	...	
Electricity Works	0	0	15	45	April 25...	—	2	...
"	0½	11½	21½	26½	Oct. 17...	—	...	
Eccleshill	4	13	12	31	Feby. 21...	—	2	Hand fired
"	7	13	4	36	April 25... May 7...	—	...	
"	2	13½	11½	33	July 8...	—	...	
"	5	15½	9½	30	Oct. 17...	—	...	
Gas Works	0	5	6	49	Nov. 21...	—	2	...
George Street ...	1	6	26½	26½	March 21...	—	2	Proctor's to 1 boiler, Whittaker's to one, Draught induced by fan
"	0½	7	19½	33	April 25...	—	...	
"	2	8	32	18	May 23...	—	...	
"	0	6½	37½	16	July 8...	—	...	
"	0½	30	21	8½	Sept. 26...	—	...	
"	1	14½	33	11½	Nov. 21...	—	...	
"	2	14	29	15	Dec. 19...	—	...	
Hey Fold	3	10	16½	30½	Jany. 24...	—	2	Hand Fired
"	3½	8	10½	38	Feby. 21...	—	...	
"	6	10	14	30	April 25... May 8...	—	...	
"	2½	11½	16	30	July 8...	—	...	
"	2½	11½	9½	36½	Sept. 26...	—	...	
"	2½	7	13	37½	Nov. 21...	—	...	
"	4	19½	15	21½	De . 19...	—	...	
Hill Side	1	3½	29½	26	Feby. 21...	—	1	Whittaker's stoker, sprinkler only
"	0½	7	25	27½	June 20...	—	...	
"	1	11½	19	28½	Aug. 22...	—	...	
"	2	10½	29	18½	Sept. 26...	—	...	

Particulars of Observations taken during the Year.—(Continued).

Mill	Black Smoke	Moderate Smoke	Slight Smokes	Not Smoking	Date reported to Committee	Legal Notices served	No. of Boilers	Stoking Apparatus
"	0 ... 10 ... 40 ... 10	...	...	...	Dec. 19...	— ...		
Hindle Street ...	0½ ... 2½ ... 30	...	...	...	Jany. 24...	— ...	1 ...	Whittaker's stoker, sprin- kler only
" ...	4 ... 3½ ... 26½ ... 26	...	...	...	Feby. 21...	— ...		
" ...	6½ ... 17 ... 15½ ... 21	...	...	...	March 21... April 8...			
" ...	1 ... 5 ... 31 ... 23	...	...	...	July 8...	— ...		
" ...	1 ... 5 ... 20 ... 34	...	...	...	Nov. 21...	— ...		
" ...	0½ ... 3½ ... 36 ... 20	...	...	...	Dec. 19...	— ...		
Hollins								
Tall Chimney	7½ ... 17 ... 16½ ... 19	...	...	...	Feby. 21...	— ...	5 ...	Hand fired
"	7 ... 18½ ... 19 ... 15½	...	...	...	June 20... Dec 2...			
"	8½ ... 23 ... 15½ ... 13	...	...	...	Nov. 21...	— ...		
Hollins								
low chimney	3½ ... 11½ ... 18½ ... 26½	...	...	...	Feby. 21...	— ...	3 and 1 fur- nace.	Hand fired
"	2 ... 13½ ... 21½ ... 23	...	...	...	June 20...	— ...		
"	2½ ... 12 ... 22½ ... 23	...	...	...	Aug. 22...	— ...		
Hollins Grove ...	2½ ... 4 ... 43½ ... 10	...	...	...	Jany. 24...	— ...	2 ...	Bennis's stokers with mov- able bars
"	6½ ... 6½ ... 28 ... 19	...	...	...	Feby. 21... Mar. 6...			
"	1½ ... 10½ ... 27 ... 21	...	...	...	April 25...	— ...		
"	3 ... 21 ... 18 ... 18	...	...	...	April 25...	— ...		
"	½ ... 1½ ... 47 ... 11	...	...	...	June 20...	— ...		
"	0 ... 0 ... 38 ... 22	...	...	...	Oct. 17...	— ...		
"	0 ... 4 ... 34 ... 22	...	...	...	Nov. 21...	— ...		
Lloyd and								
Millwoods	1½ ... 3½ ... 6 ... 49	...	...	...	Jany. 24...	— ...	1 ...	Hand fired
Lorne Street.....	1½ ... 6½ ... 10 ... 42	...	...	...	Jany. 24...	— ...	1 ...	Hand fired
"	9 ... 11 ... 4 ... 36	...	...	...	Feby. 21... Mar. 6...			
"	3 ... 12½ ... 9½ ... 35	...	...	...	April 25...	— ...		
"	4 ... 9½ ... 10 ... 36½	...	...	...	May 23...	— ...		
"	2 ... 11 ... 13 ... 34	...	...	...	July 8...	— ...		
"	6 ... 18 ... 15 ... 21	...	...	...	Nov. 21... Dec. 2...			
Olive	2 ... 17½ ... 30½ ... 10	...	...	...	Aug. 22...	— ...	1 ...	Bennis's self-feeding stoker with movable bars
"	1½ ... 15½ ... 31 ... 12	...	...	...	Oct. 17...	— ...		
Lower Wood ...	1 ... 2½ ... 13 ... 43½	...	...	...	Feby. 21...	— ...	1 ...	Proctor's movable bars
"	2 ... 3 ... 18 ... 37	...	...	...	March 21...	— ...		
"	0 ... 0 ... 18 ... 42	...	...	...	Aug. 22...	— ...		
"	1½ ... 17½ ... 25 ... 16	...	...	...	Oct. 17...	— ...		
"	1 ... 10 ... 18½ ... 30½	...	...	...	Nov. 21...	— ...		
Orchard	1½ ... 6½ ... 27 ... 25	...	...	...	Feby. 21... Dec 24/06	3 ...		Proctor's stoker with mov- able bars fixed to 1 boiler only
"	7½ ... 13 ... 19½ ... 20	...	...	...	April 25...	— ...		
"	0 ... 10 ... 41½ ... 8½	...	...	...	Sept. 26...	— ...		Prosecuted May 16, orders to abate and Costs
"	3 ... 6 ... 26½ ... 24½	...	...	...	Oct. 17...	— ...		

Particulars of Observations taken during the Year.—(Continued).

Mill	Black Smoke	Moderate Smoke	Slight Smoke	Not Smoking	Date reported to Committee	Legal Notice served	No. of Boilers	Stoking Apparatus
„	3½	19	23	14½	Nov. 21	—	...	
„	4½	10½	23½	21½	Dec. 19	—	...	
Provident	0	12	28	20	April 25	—	1	Bennis's movable bars
„	0	14	35	11	May 23	—	...	
„	0	10	33	17	July 8	—	...	
„	½	18½	25	16	Oct. 17	—	...	
Peel	1½	5	12	41½	March 21	Jan. 9	1	Leach's sprinkler only
„	1½	8	11½	39	April 25	—	...	
„	2	6	9½	42½	June 20	—	...	
„	1½	5	11	42	Aug. 22	—	...	
„	1½	12	9½	37	Oct. 17	—	...	
„	7	17½	11½	24	Nov. 21	Dec. 2	...	
Prospect	1½	9	9½	40	Aug. 22	—	1	Hand fired
„	0½	0½	15	44	Oct. 17	—	...	
Queen Street	3½	13	28	15½	Feb. 21	—	1	Leach's sprinkler only
„	5	32½	9½	13	March 21	April 8	...	
„	10½	42½	7	0	June 20	—	...	Prosecuted Aug. 29, 1907 Order to Abate
Radford	4	11	11½	33½	March 21	Jan. 9	1	Bennis's movable bars
„	4½	11½	10	34	May 23	June 4	...	
„	0	6	35	19	Sept. 26	—	...	
Robert Street	0½	1½	18	40	May 23	—	1	Hand fired
„	2	8	5½	44½	July 8	—	...	
„	1	4½	13½	41	Sept. 26	—	...	
„	1	10	15½	33½	Dec. 19	—	...	
Springfield	0½	1	14½	44	Jan. 24	—	1	Proctor's movable bars
„	1½	9	15	34½	March 21	—	...	
„	1	4½	29½	25	May 23	—	...	
„	1½	13	33	12½	June 20	—	...	
„	1½	6	40½	12	Sept. 26	—	...	
Triperies	0	8½	14½	37	April 25	—	1	Hand fired
„	0	0	10	50	June 20	—	...	
„	2	8½	12½	37	Sept. 26	—	...	
„	0	14	9	37	Dec. 19	—	...	
Model Lodging House	0	0	21	39	June 20	—	1	Hand fired
Union Street Saw Mill	1½	10	9	39½	Nov. 21	—	1	Hand fired
Vale Street	0	2½	28½	29	March 21	—	1	Bennis's movable bars and Automatic damper
„	0	3	22	35	July 8	—	...	
„	0	4½	33	22½	Sept. 26	—	...	
„	0½	9½	27	23	Dec. 19	—	...	
Woodfold	0½	3½	10	46	Jany. 24	—	1	Proctor's movable bars
„	1	20	19	20	Feb. 21	—	...	
„	0	5	19	36	May 23	—	...	

Particulars of Observations taken during the Year.—(Continued).

Mill	Black Smoke	Moderate Smoke	Slight Smoke	Not Smoking	Date reported to Committee	Legal Notice served	No. of Boilers	Stoking Apparatus
„	1½	4½	28	26	Sept. 26...	—	...	
„	3	22	9½	25½	Oct. 17...	—	...	
„	1	10	25	24	Nov. 21...	—	...	
„	0½	3½	22	34	Dec. 19...	—	...	
Woodside	0	7	41	12	Feby. 21...	—	2	Bennis's, movable bars
„	0½	7	19½	33	Aug. 22...	—	...	
„	1½	12½	30	16	Dec. 19...	—	...	

SCHOOLS.

There are 13 Public Elementary Schools in the Northern District. These have been regularly visited, particularly during each vacation, to ascertain if the cleansing was being carried out in accordance with your requirements. I submitted detailed Reports to the Committee. It was necessary in a few instances to write the Secretaries respecting certain work which had not been carried out. On the whole there is a decided improvement in the condition of the Schools. They are cleaner, better lighted and ventilated, and therefore more healthy, and as a result we have fewer cases of infectious diseases reported amongst school children. During the latter part of the year I took samples of air in each of the schools in my district. These were submitted to the Medical Officer for purposes of analysis.

TRIPERIES.

I have visited these works regularly during the year. The work is still carried out in a satisfactory manner.

FACTORIES, WORKSHOPS AND BAKEHOUSES.

Systematic inspection of these places of employment has been carried out and the usual Register kept. 401 visits have been paid to them. As previously stated in the Medical Officer's Report, this constant supervision has resulted in a general improvement.

Twenty-six Defects were discovered and dealt with as shown in the Government Table included in the Medical Officer's Report.

Want of Cleanliness	8
Want of Ventilation	3
Defective Drainage	1
Defective or Insufficient Sanitary Accommodation.....	6
Other Nuisances	8

The Bakehouses have received attention, 158 visits having been paid to them. All reasonable precautions are taken in order that wholesome articles of food may be produced. There are three certified Underground Bakehouses in the Northern District.

The Limewashing and Cleansing were carried out in accordance with the provisions of the Factory and Workshop Act.

The following is a list of the Workshops on the Register :—

Dressmakers and Milliners	34	Boot and Shoe Makers.....	26
Stocking Knitter	1	Confectioners and Bakers	36
Cycle Repairers	3	Gutscraper	1
Tin Plate Workers	4	Plumbers	7
Saddlers	3	Loom Slay Makers	1
Tailors.....	4	Tailoress	1
Furniture Polish Manufacturers	1	Cabinet Makers	2
Upholsters	1	Joiners	3
Wheelwrights	2	Tripe Dressers	3

FOOD AND DRUGS ACTS.

During the year I have taken 6 samples of Milk under the above Acts, for purposes of Analysis. These were submitted to the County Analyst, the following Table gives the result :—

No. of Sample	Fat	Percentage of other Solids.	Total Solids.	Analyst's Remarks.
1	2.57	9.11	11.68	Deficient in Fat as compared with the limit as fixed by the Board of Agriculture. The Milk was free from Preservatives.
2	2.72	9.19	11.91	ditto. Ditto.
3	.....	.....	.....	Rich Milk
4	.....	.....	.....	This Milk contained a minute trace of Borate Preservative not exceeding $\frac{1}{4}$ of a grain per pint.
5	.....	.....	.....	Genuine milk, free from Preservatives.
6	.....	.....	.....	Ditto. Ditto.

Magisterial proceedings were taken against the Owners of the samples marked 1 and 2, with the result that the Owner of sample No. 1 was fined 10/- and costs, and his servant was also ordered to pay costs, total amount £1 11s. 10d.

The Owner of sample No. 2 was fined 5/- and costs, total amount £1 2s. 10d.

According to Resolution of Committee the Town Clerk sent a cautionary letter to the Owner of sample No. 4, respecting the Borate Preservative found in the milk

FOOD INSPECTION.

I have kept a sharp out look during the year over the various articles of food offered for sale for human consumption in the district, and have had no cause for complaint.

MODEL LODGING HOUSE.

I have kept this house under constant supervision, and have always found it in a satisfactory condition. The whole of the house has been thoroughly disinfected under my supervision during the year. I have also paid occasional visits about midnight and checked the books.

The following Table shows the average number of occupants for each month during the last three years :—

	1905		1906		1907
January	62.8	.....	75.1	.....	80.5
February.....	65.2	.....	77.2	.....	81.2
March	70.1	.....	73.8	.....	93.2
April	80.2	.....	81.1	.....	95.1
May	79.2	... ..	84.2	.....	86.1
June	75.1	.....	96.2	.....	82.2
July	64.4	.....	80.3	.....	84.3
August	70.2	.....	60.2	.....	86.1
September	69.1	.....	72.1	.....	97.2
October	69.1	.....	81.1	.....	90.2
November	87.1	.....	81.4	.....	92.2
December	74.0	.....	75.3	.....	78.3
Average	72.2	.....	78.1	.....	87.2

CARAVANS.

I have inspected several Caravans which were located in various parts of the district. I found two vans located on the ground near to the Model Lodging House. The vans were none too clean, and the people were of very dirty habits. Prompt measures were at once taken, and the people left the town.

At each Monthly Meeting of the Health Committee I have submitted a Report of the work carried out in my District.

115 Agreement Forms have been signed by Owners of Property in the Northern District for the Corporation workmen to carry out repairs, etc., to Back Yards, Drains, Waste Water Closets, etc. This work has been done under my supervision.

I am, Gentlemen,

Yours obediently,

C. R. WALSH, Assoc. R. San. Inst.,

Inspector of Nuisances.

SUPERINTENDENT'S OFFICE,

CLEANSING DEPARTMENT.

To the Chairman and Members of the Health Committee.

GENTLEMEN,

I beg to submit to you my Annual Report for the year ending December 31st 1907.

The following is a Summary of the Work done from January 1st to December 31st, 1907.

	Tons.	Cwts.	Qrs.
House Refuse to Destructor	9892	4	2
Market Garbage to Destructor	258	12	0
Slaughter Garbage to Destructor	49	16	0
	10,200	12	2

Mattresses, Beds, etc., to Destructor.....	1,133	
Dogs, Cats, Fowls, etc., to Destructor	41	
Clinkers removed from Destructor.....	3,810	Loads
Excreta to Sewage Works	6,633	„
Sweepings to various Tips	2,904	„
Gully Wreck to various Tips	1,283	
Water Deposited on Streets	725	„
Length of Streets Swept by Machine.....	364 $\frac{1}{4}$	Miles
Length of Streets Swept by Hand	1,856	„
Street Gullies Emptied.....	33,742	
Back Yard Gullies Emptied	34,530	
Excreta Pails Emptied.....	364,815	
Ashtubs Emptied	351,082	
Ashpits Emptied	2,096	
Ashtubs Added during the Year.....	281	
Defective Gullies, etc., Reported to Sanitary Inspectors	64	
Pails brought in from Closet Alterations	109	
Snow Removed from Streets	1,514	

Yours obediently,

JOSEPH NICCOLL,

Cleansing Superintendent.

SLAUGHTER HOUSES REPORT FOR THE YEAR, 1907.

To the Chairman and Members of the Slaughter Houses Committee.

GENTLEMEN,

Herewith I submit my Report for the year, 1907.

The number of Cattle Slaughtered at the Public Abattoirs was as follows :—

1907	Beasts	1445	Against 1906	Beasts	1291
„	Sheep	7208	„ „	Sheep	7249
„	Calves	147	„ „	Calves	154
„	Swine	719	„ „	Swine	689
		<u>9519</u>			<u>9383</u>

This gives an increase for the year of 136 head.

PRIVATE PREMISES.

1907	Beasts	926	Against 1906	Beasts	877
„	Sheep	4489	„ „	Sheep	3873
„	Calves	227	„ „	Calves	221
		<u>5642</u>			<u>4971</u>

Giving a total increase for the year of 671 head.

SHOPS AND BUTCHERS VANS.

These are under my supervision, and are kept in a satisfactory condition. The meat is of a very good quality.

LICENSES ISSUED.

I have during the year issued Licenses for the Slaughtering of 3 Beasts and 54 Swine. The Beasts were all condemned and destroyed, the Swine being in good condition.

MEAT UNFIT FOR FOOD.

4 Beasts, 25 Sheep, 1 Calf, 1 Swine, and 2 tons 17 cwt. 2 qrs. of Offal were destroyed. 58 Cattle were examined for various complaints.

Gentlemen,

I remain yours,

Wm. BICKERSTAFFE,

Meat Inspector.

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