

## **Report of the health of Tottenham for the year 1893.**

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*with Dr Watson's  
Complaints*



**TOTTENHAM**

# Local Board of Health.

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## REPORT

OF

# The Health of Tottenham

FOR THE YEAR 1893,

BY

**W. T. WATSON, B.A., M.D., M.R.C.S.**

Medical Officer of Health for Tottenham.

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TOTTENHAM :

PRINTED BY C. COVENTRY.



# REPORT.

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*To the Chairman and Members of the Tottenham Local Board  
of Health.*

GENTLEMEN,

I am pleased to be able to give a favourable report of the Public Health in Tottenham during the year 1893.

There has been a decrease in the prevalence and fatality from infectious diseases throughout the district, especially in the more crowded neighbourhoods, and your Board and its Officers are to be congratulated on the results of the good sanitary supervision and control exercised by them in the prevention of the spread of contagious diseases, and particularly in the improved sanitary state of dwelling houses, whereby the condition of the people is raised and a higher standard of health established.

## Houses and Population.

The number of houses for which plans were passed by your Board during the year amounted to 206, a decrease on the previous year of 163.

Under the Board's Bye-Laws with respect to buildings in course of erection 74 notices were served on builders; the requirements of the notices were in every case complied with, and no legal proceedings ensued.

The population estimated to the middle of 1893 amounted to 75,000.

## Births.

The births registered in Tottenham during the year were 2,580, 1,345 males and 1,235 females.

The birth-rate, calculated from the total number of births, and the foregoing estimate of population, was 34·4, against 33·0 in 1892.

The natural increase of population, that is: the excess of births over deaths was 1,142, that for 1892 being 1,192, and for 1891, 1,448.

## Deaths.

The number of deaths was 1,429, of these 706 were males and 723 females, against 1,237 in 1892, and 1,121 in 1891.

From this number must be deducted 200 deaths, which occurred in public institutions, of patients who came from districts outside Tottenham.

On the estimated population of 75,000 the 1,229 deaths give an annual rate of mortality of 16·3, against 16·8 in 1892.

The deaths last year were distributed as follows:—

Under 1 year	...	...	...	...	379
From 1 to 5 years	...	...	...	...	300
„ 5 to 20 years	...	...	...	...	159
„ 20 to 40 years	...	...	...	...	146
„ 40 to 60 years	...	...	...	...	188
„ 60 to 80 years	...	...	...	...	208
Above 80 years	...	...	...	...	49

In greater London, which is co-extensive with the Metropolitan and City Police Districts, estimated to contain a population of upwards of five-and-a-half millions of persons in the middle of 1893, the death-rate was 19·7 per 1,000.

In Inner or Registration London the death-rate was 23·0, and in the Outer Ring it was 15·4.

TABLE OF DEATHS during the Year 1893, in the Urban Sanitary District of Tottenham, classified according to Diseases and Ages.

Mortality from all causes at subjoined ages.							Mortality from subjoined causes, distinguishing Deaths of Children under 5 years of age.																					
At all Ages.	under 1 year.	1 and under 5	5 and under 15	15 and under 25	25 and under 65	65 and upwards.	(i)	1	2	3	4	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
								Smallpox.	Scarlatina.	Diphtheria.	Membranous Croup.	Typhus.	Enteric or Typhoid.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.	Measles.	Whooping Cough.	Diarrhoea & Dysentery.	Rheumatic Fever.	Ague.	Phthisis.	Bronchitis, Pneumonia and Pleurisy.	Heart Disease.	Injuries.	All other Diseases.
1429	379	300	122	50	354	224	under 5	1	95	33	10	1				1	12	15	52				5	117	4	14	319	679
							5 and upwards	50	17	2	16				2	1		2	9	8		62	143	47	19	372	750	

## Zymotic Diseases.

The number of deaths under this class amounted to 303, 133 of which were referred to public institutions, and were of patients from outside districts.

The death-rate from the principal Zymotic Diseases was equal to 2·2 per 1000, against 2·6 in 1892, and 1·7 in 1891.

Last year the mortality from these diseases was 2·8 in greater London, 2·9 in inner London, and 2·0 in the outer ring.

Number of deaths from Zymotic Diseases in Tottenham during the year 1893 :—

Small Pox	...	...	...	...	...	1
Measles	...	...	...	...	...	12
Scarlet Fever	...	...	...	...	...	145
Diphtheria	...	...	...	...	...	50
Whooping Cough	...	...	...	...	...	17
Fever	...	...	...	...	...	17
Diarrhoea	...	...	...	...	...	61

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303

*Table of population, births, and new cases of infectious sickness, coming to the knowledge of the Medical Officer of Health during the year 1893, in the Urban Sanitary District of Tottenham, classified according to diseases and ages.*

Population at all Ages.		Registered Births.	Aged under 5 or over 5.	1	2	3	4	5	6	7	8	9	10	11
Census, 1891.	Estimated to middle of 1893.			Small Pox.	Scarlet Fever.	Diphtheria.	Membranous Group.	Fevers.					Cholera.	Erysipelas.
								Typhus.	Enteric.	Continued.	Relapsing.	Puerperal.		
70,278	75,000	2,580	under 5	4	159	47	14	...	22	...	..	...	...	4
			5 and upwds	58	492	115	4	...	124	1	...	13	...	75
TOTAL.....				62	651	162	18	...	146	1	...	13	...	79

The following table shows the number of cases reported to the Sanitary Authority under the "Infectious Diseases Compulsory Notification Act," and their distribution by Wards in the district.

Locality.	Small Pox.	Choleraic Diarrhoea.	Diphtheria.	Membranous Croup.	Erysipelas.	Scarlet Fever.	Enteric Fever.	Relapsing Fever.	Typhus.	Continued Fever.	Puerperal Fever.	Total.
West Green Ward	...	...	34	2	11	96	13	...	...	...	4	160
St. Ann's Ward ...	10	1	33	1	25	140	36	...	...	...	3	249
High Cross Ward	7	...	40	6	17	153	63	...	...	...	1	287
Middle Ward .....	40	...	33	7	16	122	14	...	...	1	2	235
Lower Ward .....	1	...	22	2	10	140	20	...	...	...	3	198
<b>TOTAL.....</b>	<b>58</b>	<b>1</b>	<b>162</b>	<b>18</b>	<b>79</b>	<b>651</b>	<b>146</b>	<b>...</b>	<b>...</b>	<b>1</b>	<b>13</b>	<b>1129</b>

### Small Pox.

There was one death from Small Pox in 1893, that of a child aged 13 days, at Mitchley Road, Stoneleys South.

It will be seen by the table that 62 cases occurred in the district. Out of this number 40 were reported from the Middle Ward, chiefly from the neighbourhood of Stoneleys South. This is a very thickly populated neighbourhood, and there is no doubt that the large number of attacks is to be accounted for by the want of due care on the part of those who were in attendance on the patients, and had the supervision of the various channels of communication. There is reason to believe that several infected articles of bedding, &c., have in some instances been removed from the room the patient occupied before fumigation could be carried out, notwithstanding express warnings to the contrary. Under circumstances such as these it is not difficult to account for the persistent prevalence of a disease like Small Pox.

It was found in four cases that the patients had not been vaccinated at all, and very great difficulty was experienced in persuading the inmates of infected houses to be re-vaccinated.

The most strenuous efforts were made by your officers to successfully cope with the disease.

Immediately a case came to our knowledge, the authorities at the Highgate Small Pox Hospital were communicated with, and if by any means accommodation could be provided, the patient was at once removed to hospital in your ambulance, and the infected premises fumigated. In several instances relatives objected to the removal of patients, and in many cases children who were below the limit of age at which persons are received into the Highgate Hospital, were treated in their own homes.

It is very important that increased facilities should be afforded to all who may wish to be vaccinated, as it is only by vaccination and re-vaccination, coupled with isolation and attention to the general sanitary condition of the surroundings, that this disease can be successfully stamped out.

## Measles.

Measles was fatal in 12 instances, against 24 in 1892, and 7 in 1891.

This disease is not included in the list of zymotics for compulsory notification, therefore any preventive measures capable of being taken by the Sanitary Authority are imperfect on account of defective information.

*Table showing Fatal Cases of Measles.*

Sex.	Age.	Locality.	Date of Death.
F.	21 months ...	Charles Street, Stamford Hill	April 7th
F.	1 year ...	Laura Road ... ..	April 21st
M.	13 months ...	St. Ann's Road ... ..	May 14th
F.	23 months ...	Welbourne Road ... ..	May 16th
M.	17 months ...	Glendish Road... ..	June 15th
M.	9 months ...	Park Lane ... ..	June 24th
M.	4 years ...	Harringay Road ... ..	July 2nd
M.	4 years ...	Beaconsfield Road ... ..	July 13th
F.	11 months ...	Stamford Road ... ..	August 3rd
F.	15 months ...	West Green Road ... ..	August 17th
F.	2 years ...	Seaford Road ... ..	December 14th
F.	2 years ...	Braemar Road... ..	December 22nd

## Scarlet Fever.

Scarlet Fever was very prevalent during the year, not only in this district, but generally throughout the country.

In Tottenham 145 deaths were registered ; of these 128 occurred at the North Eastern Hospital, and were from other localities, so that the actual number to be referred to Tottenham amounts to 17, against 15 in 1892, and 15 in 1891.

*Table showing Fatal Cases of Scarlet Fever.*

Sex.	Age.	Locality.	Date of Death.
F.	1 year ...	Westerfield Road ... ..	February 12th
F.	14 months ...	Poynton Road ... ..	April 27th
F.	4 years ...	Spencer Road ... ..	June 8th
M.	4 years ...	Vartry Road ... ..	May 24th
M.	17 years ...	High Road ... ..	July 10th
M.	3 years ...	Tottenham Terrace ... ..	July 12th
M.	1 year ...	Harringay Road ... ..	July 29th
M.	3 years ...	St. George's Road ... ..	August 10th
M.	8 months ...	Williamson's Potteries ... ..	August 21st
F.	23 years ...	Antill Road ... ..	August 13th
M.	14 months ...	Seven Sisters' Road ... ..	October 13th
F.	2 years ...	Heybourne Road ... ..	October 15th
M.	5 years ...	Harold Road ... ..	November 1st
F.	14 years ...	Baronet Road ... ..	December 19th
F.	3 years ...	Whitehall Street ... ..	December 18th
F.	12 years ...	Antill Road ... ..	December 20th
M.	8 years ...	Antill Road ... ..	December 22nd

## Diphtheria.

The Deaths ascribed to Diphtheria numbered 50, against 18 in 1892 and 15 in 1891.

It will be seen by the table that 162 cases were notified to the Sanitary Authority, most of the cases were referred to the High Cross and West Green Wards.

I may mention that Diphtheria was very prevalent in London, and also throughout the country, last year, indeed Diphtheria has been steadily increasing as a cause of death in most of our large towns for some years. In London the deaths from this disease are almost as many as from Measles and Whooping Cough, and exceed those from Scarlet Fever.

Sanitary improvements appear to have little influence in preventing the mortality from Diphtheria, while they have a marked effect on the spread of Enteric Fever.

Table showing Fatal Cases of Diphtheria.

Sex.	Age.	Locality.	Date of Death.
F.	9 months ...	Hospital (Stroma Terrace) ...	January 15th
M.	3 years ...	Scales Road ... ..	February 8th
F.	2 years ...	Scales Road ... ..	February 14th
F.	7 years ...	Newlyn Road ... ..	February 22nd
F.	2 years ...	Hospital (Scales Road) ...	March 25th
F.	7 years ...	Scales Road ... ..	April 4th
M.	8 years ...	Scales Road ... ..	April 8th
M.	4 years ...	Burlington Road ... ..	April 9th
M.	3 years ...	Hanover Road... ..	April 20th
M.	12 years ...	Welbourne Road ... ..	May 6th
F.	6 years ...	Welbourne Road ... ..	May 8th
M.	3 years ...	N. E. Hospital... ..	May 9th
M.	17 months ...	Malvern Road ... ..	May 24th
F.	4 years ...	Lawrence Road ... ..	June 10th
F.	9 years ...	High Road ... ..	June 12th
F.	4 years ...	Hospital (Wood Green) ...	June 12th
M.	11 years ...	N. E. Hospital... ..	June 15th
F.	3 years ...	Wingmore Road ... ..	June 16th
F.	3 years ...	Lawrence Road ... ..	June 22nd
M.	12 years ...	Montague Road ... ..	July 4th
F.	17 months ...	Hospital (Newton Road) ...	July 24th
F.	6 years ...	Brunswick Road ... ..	July 25th
M.	3 years ...	Wilton Road ... ..	July 27th
M.	6 months ...	Rangemore Road ... ..	July 28th
M.	8 years ...	Greenwood Road ... ..	August 3rd
M.	2 years ...	N. E. Hospital... ..	August 6th
F.	34 years ...	Brograve Road... ..	August 28th
F.	8 months ...	Scales Road ... ..	August 28th
F.	4 years ...	Chesnut Road ... ..	September 14th
F.	3 years ...	N. E. Hospital ... ..	September 15th
F.	2 years ...	Avenue Road ... ..	September 20th
F.	2 years ...	N. E. Hospital... ..	September 24th
F.	2 years ...	Paignton Road... ..	September 26th
M.	4 years ...	Tilson Road ... ..	October 5th
M.	5 years ...	Somerset Road ... ..	October 23rd
F.	4 years ...	High Road ... ..	October 24th
M.	3 years ...	Clarendon Road ... ..	October 27th
F.	4 years ...	North Grove ... ..	October 30th
F.	6 years ...	Ashford Road ... ..	November 1st
M.	2 years ...	St. John's Road ... ..	November 3rd
M.	2 years ...	Hospital (Clyde Road) ...	November 5th
F.	2 years ...	Stamford Road ... ..	November 5th
M.	3 years ...	Hospital (Malvern Road) ...	November 15th
F.	3 years ...	Church Road ... ..	November 22nd
M.	2 years ...	Hospital (Elsden Road) ...	December 4th
M.	10 years ...	Belmont Road ... ..	December 6th
F.	7 years ...	Milton Road ... ..	December 8th
M.	10 months ...	N. E. Hospital ... ..	December 17th
F.	2 years ...	Glenwood Road ... ..	December 22nd
F.	2 years ...	Railway Cottages, Hale ...	December 23rd



Analysis of Births and Deaths in Tottenham in 1893.

Age	Sex	Number	Rate	Percentage
0-1	Male	120	1.2	12.0
0-1	Female	110	1.1	11.0
2-3	Male	100	1.0	10.0
2-3	Female	90	0.9	9.0
4-5	Male	80	0.8	8.0
4-5	Female	70	0.7	7.0
6-7	Male	60	0.6	6.0
6-7	Female	50	0.5	5.0
8-9	Male	40	0.4	4.0
8-9	Female	30	0.3	3.0
10-11	Male	20	0.2	2.0
10-11	Female	15	0.15	1.5
12-13	Male	10	0.1	1.0
12-13	Female	8	0.08	0.8
14-15	Male	5	0.05	0.5
14-15	Female	4	0.04	0.4
16-17	Male	3	0.03	0.3
16-17	Female	2	0.02	0.2
18-19	Male	2	0.02	0.2
18-19	Female	1	0.01	0.1
20-21	Male	1	0.01	0.1
20-21	Female	1	0.01	0.1
22-23	Male	1	0.01	0.1
22-23	Female	1	0.01	0.1
24-25	Male	1	0.01	0.1
24-25	Female	1	0.01	0.1
26-27	Male	1	0.01	0.1
26-27	Female	1	0.01	0.1
28-29	Male	1	0.01	0.1
28-29	Female	1	0.01	0.1
30-31	Male	1	0.01	0.1
30-31	Female	1	0.01	0.1
32-33	Male	1	0.01	0.1
32-33	Female	1	0.01	0.1
34-35	Male	1	0.01	0.1
34-35	Female	1	0.01	0.1
36-37	Male	1	0.01	0.1
36-37	Female	1	0.01	0.1
38-39	Male	1	0.01	0.1
38-39	Female	1	0.01	0.1
40-41	Male	1	0.01	0.1
40-41	Female	1	0.01	0.1
42-43	Male	1	0.01	0.1
42-43	Female	1	0.01	0.1
44-45	Male	1	0.01	0.1
44-45	Female	1	0.01	0.1
46-47	Male	1	0.01	0.1
46-47	Female	1	0.01	0.1
48-49	Male	1	0.01	0.1
48-49	Female	1	0.01	0.1
50-51	Male	1	0.01	0.1
50-51	Female	1	0.01	0.1
52-53	Male	1	0.01	0.1
52-53	Female	1	0.01	0.1
54-55	Male	1	0.01	0.1
54-55	Female	1	0.01	0.1
56-57	Male	1	0.01	0.1
56-57	Female	1	0.01	0.1
58-59	Male	1	0.01	0.1
58-59	Female	1	0.01	0.1
60-61	Male	1	0.01	0.1
60-61	Female	1	0.01	0.1
62-63	Male	1	0.01	0.1
62-63	Female	1	0.01	0.1
64-65	Male	1	0.01	0.1
64-65	Female	1	0.01	0.1
66-67	Male	1	0.01	0.1
66-67	Female	1	0.01	0.1
68-69	Male	1	0.01	0.1
68-69	Female	1	0.01	0.1
70-71	Male	1	0.01	0.1
70-71	Female	1	0.01	0.1
72-73	Male	1	0.01	0.1
72-73	Female	1	0.01	0.1
74-75	Male	1	0.01	0.1
74-75	Female	1	0.01	0.1
76-77	Male	1	0.01	0.1
76-77	Female	1	0.01	0.1
78-79	Male	1	0.01	0.1
78-79	Female	1	0.01	0.1
80-81	Male	1	0.01	0.1
80-81	Female	1	0.01	0.1
82-83	Male	1	0.01	0.1
82-83	Female	1	0.01	0.1
84-85	Male	1	0.01	0.1
84-85	Female	1	0.01	0.1
86-87	Male	1	0.01	0.1
86-87	Female	1	0.01	0.1
88-89	Male	1	0.01	0.1
88-89	Female	1	0.01	0.1
90-91	Male	1	0.01	0.1
90-91	Female	1	0.01	0.1
92-93	Male	1	0.01	0.1
92-93	Female	1	0.01	0.1
94-95	Male	1	0.01	0.1
94-95	Female	1	0.01	0.1
96-97	Male	1	0.01	0.1
96-97	Female	1	0.01	0.1
98-99	Male	1	0.01	0.1
98-99	Female	1	0.01	0.1
100-101	Male	1	0.01	0.1
100-101	Female	1	0.01	0.1



W. TYNDALE WATSON, M.D.

*Cases of Diphtheria notified to the Urban Sanitary District of Tottenham during the last three years.*

Locality.				1891.	1892.	1893.	Total.
West Green Ward	...	...	...	13	25	34	72
St. Ann's Ward	...	...	...	28	25	33	86
High Cross Ward	...	...	...	39	38	40	117
Middle Ward	...	...	...	12	11	33	56
Lower Ward	...	...	...	7	6	22	35
Total ...				99	105	162	366

### Whooping Cough.

The deaths from this infantile disease amounted to 17, against 47 in 1892, and 35 in 1891.

The deaths included :—

- 2 children under 1 year
- 5 children from 1 to 5 years
- 8 children from 2 to 5 years
- 1 child aged 7 years
- 1 child aged 8 years

This disease is not included in the list of Zymotics for compulsory notification.

### Fever.

There were 18 deaths from Fever during the year, the same number as in 1892 ; in 1891 there were 16 fatal cases.

The total number of cases reported to the Sanitary Authority amounted to 146 ; of these 63 were referred to the High Cross Ward, 36 to St. Ann's Ward, 20 to the Lower Ward, 14 to the Middle Ward, and 13 to the West Green Ward.

It will be seen that the greatest number of Fever cases occurred in the High Cross district. There was no special outbreak in any locality.

The Lower Ward, which was at the head of the list in 1892, was last year in a much healthier condition.

No fatal cases were reported from Brunswick Court, where the entire water service pipes and drainage were re-modelled by order of your Board.

*Table showing Fatal Cases of Fever.*

Sex.	Age.	Locality.	Date of Death.
M.	26 years ...	Hospital (Woodberry) ...	January 9th
M.	26 years ...	Chesnut Road ... ..	January 15th
F.	36 years ...	Hospital (Catherine Road) ...	January 23rd
F.	37 years ...	Hospital (Stoke Newington)...	May 8th
M.	26 years ...	St. Paul's Road ... ..	July 31st
M.	39 years ...	Hospital (Siddons Road) ...	August 4th
M.	27 years ...	Hospital (Rangemore Road)...	August 15th
F.	41 years ...	Hospital (Sutton Road) ...	September 5th
F.	40 years ...	Bruce Grove Road ... ..	September 27th
F.	14 years ...	Markfield Road ... ..	October 9th
F.	20 years ...	Church Road ... ..	November 3rd
F.	11 years ...	Hospital (South Hornsey) ...	November 5th
F.	8 years ...	Hospital (High Cross Road)...	December 4th
M.	6 years ...	Hospital (Bernard Road) ...	December 9th
M.	4 years ...	Seven Sisters' Road ... ..	December 8th
M.	14 years ...	Hospital (Rangemore Road)...	December 22nd
M.	21 years ...	Lansdowne Road ... ..	December 28th
F.	41 years ...	Hospital (Osman Road) ...	December 24th

## Diarrhœa.

The deaths from Diarrhœa amounted to 61, against 47 in 1892, and 36 in 1891.

53 of the deaths occurred in the months of July, August, and September, the time of greatest heat; it will be seen by Mr. Worth's tables that the temperature during those months was considerably above the average for the previous 5 years.

The deaths included :—

37 of children under 6 months.

14 of children from 6 to 12 months.

3 of children from 1 to 3 years.

1 child at 6 years.

2 persons aged 52 and 55.

2 persons aged 62 and 63.

2 persons aged 82 and 84.

## Pulmonary Diseases.

Diseases of the Respiratory Organs caused 260 deaths, against 272 in 1892, and 257 in 1891.

## Phthisis.

The deaths from Phthisis amounted to 67, against 79 in 1892, and 86 in 1891.

## Diseases of the Circulatory System.

Under this head 50 deaths were registered.

## Violent Deaths.

Different forms of violence caused 33 deaths.

Of these 11 were referred to burns and scalds, 4 to drowning, 4 to suffocation, 4 to falls, 5 to shock, 2 to poison, 1 to being run over by railway train, 1 to cut throat, and 1 to blow from a ball.

## Sanitary Proceedings.

The past year has been marked by a most thorough and systematic inspection of houses in the District, especially where notices have been received of the existence of infectious disease.

At each house careful enquiries are made as to overcrowding, infectious disease, or nuisance of any kind; there is also a careful examination of traps, closets, and cisterns, the drains being examined by the smoke test.

It will be seen on referring to the Summary of Nuisances, and other matters reported and attended to by the Sanitary Inspector and his assistants, that a great deal of work has been carried out during the year.

2,485 notices were served for the abatement of nuisances, 1,023 drains were examined and tested for defects, 1,704 visits were paid to cases of infectious diseases, and 556 rooms were disinfected after cases of contagious diseases.

There was periodical inspection of all Bake-houses, Slaughter-houses, and Dairies. Special attention was given to all premises used

for the sale of milk, and in all cases where application for registration was received, the general sanitary condition of the premises was investigated, drains were tested and notice served for rectifying any defects.

*Summary of Nuisances and other matters reported and attended to by the Inspector of Nuisances from January 1st to December 31st, 1893.*

	TOTAL.
Nuisance Complaints received and attended to	590
Dust Applications...	245
Cases of Infectious Diseases, visits paid	1704
Loads of House Refuse collected	11900
Loads of Trade Refuse collected	800
Slaughter Houses, visits paid	500
Bake-houses	500
Lodging-houses	100
Milk Shops	400
Notices served for the Abatement of Nuisances	2485
Rooms Disinfected after cases of Infectious Diseases...	556
Articles of Bedding, etc., destroyed...	59
Drains examined and tested for Defects	1023
Factory and Workshops, visits paid...	90
Water Closets and Urinals cleansed or repaired	20
Dwelling-houses, visits paid	100
Slaughter-houses	32
Bake-houses	25
Lodging-houses	4
Yards, Passages, etc., paved	80
Cisterns cleansed ...	120
Yards, Stables, Styes, etc., cleansed	70
Offensive Accumulation removed	82
Animals kept improperly	60
Insanitary Closets and Traps removed	72
Water Supply provided to W.C's.	24
Water Supply of W.C's. disconnected from Domestic Supply	180
Sink and Baths Wastes disconnected from Drains	122
Drains Ventilated ...	43
Smoke Nuisance abated	4
Yard Drains trapped	20
Drains re-constructed or repaired	780
W.C's. or Fittings	39
Water	92
Dust Bins provided	63
Cesspools cleansed	8
Soil Pipes removed	42
Gipsy Encampments removed	23
Dust Bins repaired	42
Houses, or parts of, repaired	25
Bodies received in Mortuary	135
Unsound Fish seized and destroyed	
Fruit ( Plums	8 cwt.
Tomatoes...	2 bushels
Apples	4 "
Peas	5 barrels
	2 sacks

## Notification of Infectious Diseases to the School Board Authorities.

In consequence of the danger to be feared of children from infected houses attending Schools in the District, it was found necessary to adopt measures whereby the School Authorities could be quickly notified of the existence of an infectious disease at houses from whence children attended School. As soon as possible after such houses are visited, a form containing all the necessary information is now sent to the School Board, and a further intimation is sent after the premises have been properly disinfected. This system works admirably for preventing the spread of infectious diseases.

## Infectious Diseases Hospital.

Numerous applications for removal to Hospital have been made during the year on behalf of persons who were suffering from Diphtheria or Scarlet Fever, but unavoidable delay in completing the negotiations between your Board and the Metropolitan Asylums Board has (for the time being) rendered the removal of infected persons to Hospital impracticable.

There is no doubt, however, that suitable arrangements will be made for admission of patients.

This will be of great importance to Tottenham, and will very materially benefit the residents in the District.

## Refuse Destructor.

Owing to the want of a convenient and proper shoot, as place of deposit for the house refuse collected in the District, very great difficulty has been experienced during the year in carrying out this important work. I need hardly remind you that the regular removal of all the contents of dust-holes and dust-bins is very necessary, there are few sources from which foul and dangerous odours emanate more readily than from these receptacles, owing chiefly to the decaying animal and vegetable matter, which is more often than not mixed with the ashes, &c., in addition to which it is more than probable that infectious rubbish is frequently deposited in them. I would urge upon your Board, therefore, the necessity of taking into consideration the

question of providing a Refuse Destructor or other equally practical and efficient means of dealing with the rapidly increasing mass of house and trade refuse.

### Gipsy Encampments.

During the year numerous complaints have been received as to the nuisance caused by gipsies encamping on vacant land in close proximity to dwelling houses.

Owing to the absence of statutory powers dealing directly with this class of nuisance, very great trouble has been experienced in having the caravans removed. It is most desirable that the efforts of your Board to obtain effective legislation in this direction will result in ridding the district of this intolerable nuisance.

### Scotland Green.

A house to house inspection and an exhaustive examination of the drainage of this part of the district has been made within the past year, numerous defects and insanitary conditions have been discovered, the remedying of which will effect a material improvement.

### Removal of Bodies to Mortuary.

The arrangements for removing bodies to your Mortuary have undergone considerable improvement. A hearse is now provided for this purpose instead of your ambulance, which was made use of in the past. A register is now kept in which all particulars relating to the removal of each body to and from the Mortuary are entered, and no effort is spared to perfect as far as possible the important work in connection with this branch of my department.

### Water.

The number of houses inspected for the detection of waste of water was 2,279.

Defective fittings were found in 1,181 houses.

New service pipes were laid on to 80 houses.

New fire plugs were fixed in 40 cases.

The service pipes to 51 old houses were renewed.

460 yards of mains were laid.

449 yards of mains were re-laid.

## Roads.

The following Roads were declared public highways :—

Glenwood Road.  
 Rangemore Road.  
 Cape Road.  
 Townsend Road.  
 Asplin's Road.  
 Vincent Road.  
 Park Road (part of.)  
 Winchelsea Road.  
 Seaford Road.  
 Forster Road.  
 Lincoln Road.

Total length about 2 miles.

Total cost nearly £14,000.

Watering the Roads took place 147 days during the year. Permanganate of Potash was used in the water carts as a deodorant and disinfectant throughout the summer, and was most successful.

There are now 8 roads in the hands of the contractors, and 36 more under the consideration of your Board.

## Sewers.

The following Sewers have been laid during the year :—

1,000 feet of 12in. pipes.

560 feet of 9in. pipes.

3,000 feet of 6in. pipes have been used in making 200 connections to the Sewers.

## Surface Water Drains.

The following Surface Water Drains were laid :—

90 feet of 15in. pipes.

860 feet of 12in. pipes.

1,240 feet of 9in. pipes.

4,000 feet of 4in. pipes were used in making 300 connections to the Surface Water Drains.

W. TYNDALE WATSON, M.D.

March 10th, 1894.

# METEOROLOGICAL OBSERVATIONS, 1893.

(As supplied Monthly to the Registrar General, Somerset House, London.)

Taken at TOTTENHAM at a Station 47 feet above mean sea level at Liverpool. Latitude 51° 36' N., Longitude 0° 4' W.



MONTH.	Pressure of Atmosphere in Month.		Temperature of Air in Month.						Mean Temperature.		VAPOUR.					WIND.					RAIN.					
	Mean.	Range.	Highest.	Lowest.	Range.	Mean.			Air.	Dew Point.	Elastic Force.	In a Cubic Foot of Air.		Mean Degree of Humidity Saturation=100.	Mean Weight of a Cubic Foot of Air.	Mean Reading of minimum on Grass.	Estimated Strength 0-6.	Relative proportion of				Calm.	Mean Amount of Cloud, 0-10.	No. of Days .010 or more fell.	Amount Collected.	Evaporation.
						Of all High-est.	Of all Low-est.	Daily Range.				Mean.	Short of Saturation.					N.	E.	S.	W.					
1893.	INCHES	INCHES	DEG.	DEG.	DEG.	DEG.	DEG.	DEG.	DEG.	DEG.	INCH	GRNS.	GRNS.	GRNS.	DEG.									INCHES	INCHES	
JANUARY .....	30.070	0.996	52.1	15.9	35.2	40.0	31.2	8.8	35.5	32.8	.187	2.1	0.3	90	562	28.7	0.8	9	4	7	10	1	8.4	12	1.242	0.382
FEBRUARY .....	29.700	1.652	56.2	23.0	33.2	46.6	35.8	10.8	40.8	38.0	.230	2.7	0.3	90	549	33.1	0.9	3	4	8	11	2	8.4	20	2.924	0.600
MARCH .....	30.146	0.820	67.1	24.4	42.7	56.7	35.5	21.2	44.7	39.9	.247	2.8	0.5	84	552	32.1	0.9	7	7	4	11	2	4.5	5	0.460	1.825
APRIL .....	30.177	0.566	77.4	30.4	47.0	64.1	40.2	23.9	50.3	40.9	.256	2.9	1.2	71	547	38.0	0.9	8	15	3	4	...	3.2	3	0.110	3.550
MAY .....	30.069	0.808	76.6	39.9	36.7	67.1	47.8	19.3	55.8	46.5	.319	3.6	1.3	71	539	45.6	1.0	5	9	6	11	...	5.5	6	0.680	4.420
JUNE .....	30.013	1.090	85.5	38.8	46.7	71.2	51.6	19.6	59.3	48.2	.337	3.8	1.9	67	534	49.9	1.0	6	13	3	8	...	5.5	10	0.750	4.435
JULY .....	29.897	0.752	85.0	47.7	37.3	71.0	55.7	15.3	61.5	53.9	.415	4.6	1.4	77	529	53.4	0.9	5	6	9	10	1	5.7	14	2.167	3.557
AUGUST .....	30.028	0.672	91.1	43.7	47.4	73.8	56.5	17.3	63.4	54.9	.433	4.8	1.7	74	530	53.5	0.8	6	4	6	11	4	4.6	11	1.195	3.690
SEPTEMBER .....	29.883	1.024	77.3	37.4	39.9	65.5	48.8	16.7	55.6	49.1	.351	3.9	1.0	80	535	46.0	0.9	7	4	5	11	3	4.9	10	1.359	2.000
OCTOBER .....	29.914	1.238	65.4	29.2	36.2	58.7	44.9	13.8	50.5	46.6	.318	3.6	0.5	87	542	41.4	0.8	3	1	6	18	3	4.4	16	3.577	1.500
NOVEMBER .....	29.982	1.352	59.4	26.8	32.6	47.7	36.0	11.7	41.5	37.2	.225	2.5	0.5	87	553	33.4	1.0	12	4	5	9	...	7.5	14	2.058	0.660
DECEMBER .....	30.007	1.716	56.2	19.0	37.2	45.7	34.6	11.1	40.2	37.0	.220	2.5	0.4	89	553	31.1	0.8	5	2	13	10	1	7.7	13	2.034	0.384

Barometer corrected and reduced to 32° Fahr. at sea level.

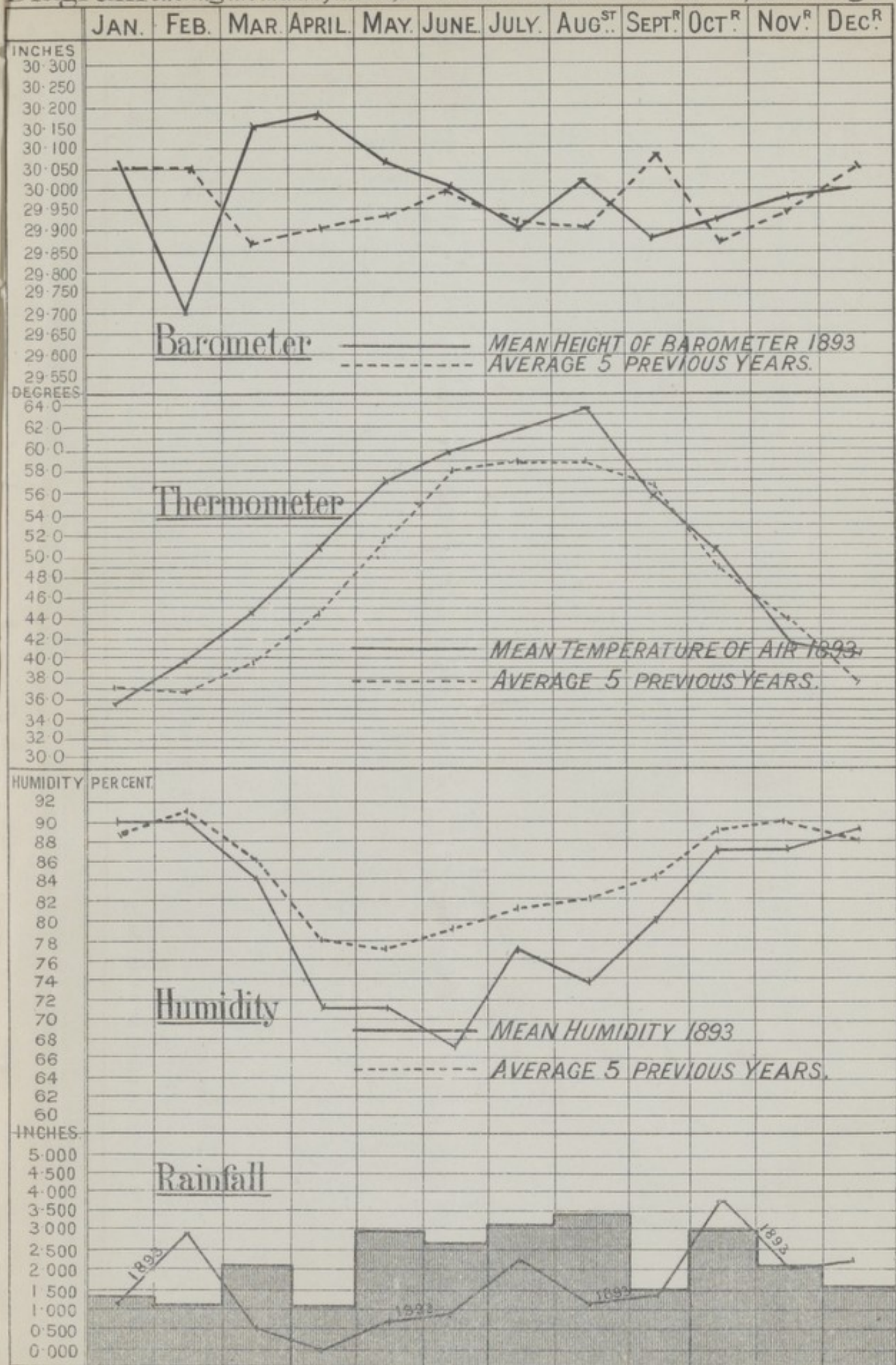
Highest reading of Barometer 30.732 inches on 30th December.  
 Lowest do. do. 28.750 inches on 21st February.  
 Ranges of Atmospheric Pressure during the year, 1.982 inches.

Highest reading of Thermometer in shade, 91.1 deg. on 18th August.  
 Lowest do. do. do. 15.9 deg. on 5th January.  
 Ranges of Temperature during the year, 75.2 degrees.

Observations taken at 9 a.m. daily.

JNO. ED. WORTH, M. Inst. C.E., F.R. Met. Soc., &c.

Diagram Showing the Monthly Means & with their Variations from their respective Averages





# REGISTER OF RAINFALL,

*Collected at TOTTENHAM from Jan. to Dec., 1893.*

Measured at 9 a.m. Latitude 51° 36' N.; Longitude 0° 4' W.  
47 feet above mean sea level.

Day of Month.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	...	...	·090	...	...	...	...	·050	·340	...	...	·147
2	...	·310	·185	...	...	...	...	·150	...	·025	·212	...
3	...	·150	·040	...	...	...	...	...	...	·205	·010	...
4	...	...	·085	...	...	...	...	·200	...	...	...	...
5	...	...	...	...	...	·020	·110	·215	...	·030	·030	...
6	...	...	...	...	...	...	...	...	...	·190	...	...
7	·010	·080	...	...	...	·090	...	·020	·050	·070	...	·030
8	·035	·030	...	...	...	...	...	...	...	·118	...	...
9	·110	...	...	...	...	...	·260	...	·210	...	...	·280
10	·250	·170	...	...	...	...	·150	·135	...	·990	...	·010
11	...	·035	...	...	...	...	...	...	...	·190	...	·095
12	·047	·110	...	...	...	...	·225	·090	...	·560	...	·030
13	...	·010	...	...	...	...	·130	·010	...	...	...	·310
14	·020	·095	...	...	...	...	...	...	...	·103	...	·375
15	...	·090	...	...	...	·040	...	...	...	·070	·560	...
16	...	·064	...	...	...	...	·072	...	...	...	·040	...
17	·200	·020	·060	·030	·070	...	·045	...	·130	...	·030	...
18	·050	·030	...	...	·405	...	...	...	...	·670	·113	...
19	·110	·120	...	...	·040	...	·075	...	...	...	·410	...
20	...	...	...	·060	·020	·015	·170	...	·070	...	·070	·210
21	...	·205	...	...	...	...	·140	·020	·120	...	·010	·325
22	·050	·445	...	...	...	...	...	...	...	·175	...	...
23	...	·145	...	...	...	·220	...	·050	...	·123	...	·175
24	...	...	...	...	·050	·040	·350	·250	...	...	·070	·010
25	...	...	...	...	...	...	...	...	...	...	·015	·037
26	...	·210	...	...	...	·010	...	...	·115	·048	·380	...
27	·285	·170	...	...	...	·060	·220	...	·150	...	...	...
28	...	·435	...	...	...	·245	...	...	...	...	·108	...
29	·075	...	...	...	...	·010	...	...	·125	·010	...	...
30	...	...	...	·020	·095	...	·070	...	·049	...	...	...
31	...	...	...	...	...	...	·150	·005	...	...	...	...
Total Rainfall for Month.	1·242	2·924	0·460	0·110	0·680	0·750	2·167	1·195	1·350	3·577	2·058	2·034
Greatest Fall in 24 Hours.	0·285 on 27th	0·445 on 22nd	0·185 on 2nd	0·060 on 20th	0·405 on 18th	0·245 on 28th	0·350 on 24th	0·250 on 24th	0·340 on 1st	0·990 on 10th	0·560 on 15th	0·375 on 14th
No. of Days on which ·010 or more fell.	12	20	5	3	6	10	14	11	10	16	14	13

Readings are entered against the day on which they are read.

Total Rainfall in the above twelve months ... 18·556 inches.

Number of days on which ·010 or more rain fell ... 134.

Greatest fall in 24 hours, 0·990 inches, on 10th October.

Jno. Ed. WORTH, M. Inst. C.E., F.R. Met. Soc., &c.

TOTTENHAM

# LOCAL BOARD OF HEALTH

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## SEWER GAS & HOUSE DRAIN VENTILATION.

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The Local Board of Health begs to call the serious attention of the inhabitants of Tottenham to the great importance of House Drain Ventilation. This is recommended by the Government and all other Sanitary authorities as the only means (when coupled with effective trapping) of entirely keeping out of Houses dangerous sewer gases. Those gases which are harmless when they escape freely into the open air are known to be the frequent cause of serious and even fatal illness when they find their way into the interior of dwelling houses.

The soil pipe of every water-closet should be ventilated by means of a pipe from it carried upwards outside the house until it is clear of the eaves.

The sink-pipe and the waste-pipe from basins and baths can be ventilated in the same way, but in these cases a still better and cheaper plan of keeping out sewer gas is usually possible. This is to sever the pipes outside the House, and to place a trap below the point of severance. Overflow pipes from cisterns and baths should never enter the sewer, but should always end in the open air.

When it can possibly be avoided, no pipe issuing from the house (except the closet soil-pipe) should pass into the sewer without a break. Rain-water pipes should never be used for the purpose of ventilating drains.

House-drain ventilation can be carried out at a moderate cost. Further information can be obtained at the Board's Offices.

By order of the Board,



EDWARD CROWNE,

CLERK.