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DIGEST
OF THE
ANNUAL REPORTS
for the Year 1898,
OF THE
MEDICAL OFFICERS OF HEALTH
AND
INSPECTORS OF NUISANCES
IN THE
ADMINISTRATIVE
COUNTY OF WORCESTER.
BY
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Ebenr. Baylis and Son, 22, Cross, and Trinity Works, Worcester.


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INDEX.

| | TABLES. | PAGE. |
|---|---------------------------|-------------|
| Area of County - - - | Table A. - - - | 15, 16. |
| Births and Birth-rates - - - | Tables A. & B. - - - | 16, 17. |
| Cancer - - - | Table B. - - - | 36. |
| Dairies, Cowsheds and Milkshops- - - | - - - | 42, 43. |
| Deaths and death-rates - - - | Tables A. & B. - - - | 17, 18. |
| Decennial County Statistics- - - | - - - | 36 to 38. |
| Diarrhœa - - - | Tables A. & B. - - - | 27, 28. |
| Diphtheria - - - | Tables VI., A. & B. - - - | 25, 26. |
| Disinfection - - - | - - - | 41. |
| Districts, Area of- - - | Table A. - - - | - |
| „ Population of- - - | Tables A. & B. - - - | - |
| Drainage - - - | - - - | 42. |
| Excrement Disposal - - - | - - - | 42, 148. |
| Factories and Workshops - - - | - - - | 147. |
| Fever - - - | Tables VI., A. & B. - - - | 26, 27. |
| Hospitals, Isolation - - - | - - - | 39, 41. |
| Infantile Mortality - - - | Tables A. & B. - - - | 28, 29. |
| Laboratory - - - | - - - | 45, 46. |
| Measles - - - | Tables VI., A. & B. - - - | 22. |
| Notification of Disease - - - | - - - | 39. |
| Phthisis, Tuberculosis - - - | Tables A. & B. - - - | 29, 34. |
| Population of County - - - | Tables A. & B. - - - | 15, 16. |
| Quinquennial Census - - - | - - - | 16. |
| Reports, Printing of- - - | - - - | 15. |
| Reports of Sanitary Inspectors - - - | Table C. - - - | 146 to 149. |
| Reports, Synopsis of Medical Officers of Health for - - - | - - - | 47 to 146. |
| „ „ Bewdley Borough Urban District - - - | - - - | 47. |
| „ „ Bromsgrove „ „ - - - | - - - | 50. |
| „ „ „ North „ „ - - - | - - - | 53. |
| „ „ Droitwich Borough „ „ - - - | - - - | 56. |
| „ „ Evesham „ „ - - - | - - - | 59. |
| „ „ Kidderminster „ „ - - - | - - - | 62. |
| „ „ Kings Norton & Northfield „ „ - - - | - - - | 65. |
| „ „ Lye and Wollescote „ „ - - - | - - - | 68. |
| „ „ Malvern „ „ - - - | - - - | 71. |
| „ „ Oldbury „ „ - - - | - - - | 74. |
| „ „ Redditch „ „ - - - | - - - | 87. |
| „ „ Stourbridge „ „ - - - | - - - | 90. |
| „ „ Stourport „ „ - - - | - - - | 93. |

INDEX.

| | PAGE. |
|--|-------------|
| Reports, Synopsis of Medical Officers of Health for— | |
| " " Bromsgrove Rural District - | 96. |
| " " Droitwich " " - | 99. |
| " " Evesham " " - | 102. |
| " " Feckenham " " - | 105. |
| " " Halesowen " " - | 108. |
| " " Kidderminster " " - | 111. |
| " " Martley " " - | 114. |
| " " Newent " " - | 117. |
| " " Persnore " " - | 120. |
| " " Rock " " - | 123. |
| " " Shipston-on-Stour " " - | 126. |
| " " Stow-on-the-Wold " " - | 129. |
| " " Tenbury " " - | 132. |
| " " Tewkesbury " " - | 135. |
| " " Upton-on-Severn " " - | 138. |
| " " Winchombe " " - | 141. |
| " " Yardley " " - | 144. |
| Respiratory Diseases - - - - - | 35. |
| River Pollution - - - - - | 43 to 45. |
| Sanitary Districts, No. of - - - - - | 15. |
| Sanitary Inspectors, Reports. Table C. - - - - - | 147 to 151. |
| Sanitary Work - - - - - | 42 to 46. |
| Scarlatina - - - - - Tables VI., A. & B. | 23, 24. |
| Sewage Outfalls - - - - - | 43. |
| Smallpox - - - - - Tables VI., A. & B. | 22. |
| Special Reports - - - - - | 45. |
| Tuberculosis, Phthisis - - - - - | 29, 34. |
| Vans and Tents - - - - - | 45. |
| Water Supply - - - - - | 42. |
| Zymotic Diseases - - - - - Tables A. & B. | 18, 19. |



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*To the Sanitary Committee of the
Worcestershire County Council.*

MR. CHAIRMAN AND GENTLEMEN,

1. I have the honour to present my Tenth Digest of Annual Reports of Medical Officers of Health and Inspectors of Nuisances in the Administrative County of Worcester, which refers to the year 1898.

2. In 1896 the number of Sanitary Districts in the County was 32 (12 Urban and 20 Rural), in 1897, 31 (13 Urban and 18 Rural), and in 1898, 30 (13 Urban and 17 Rural).

3. The difference between 1897 and 1898 was due to Malvern Link being amalgamated with the Malvern District, and to the Kings Norton Rural District being constituted the "Kings Norton and Northfield Urban District."

4. I reported last year that the Annual Reports of eight Medical Officers were forwarded in M.S.

5. In 1898 this number was reduced to 7, as under :

Urban.

Droitwich.

Rural.

Newent, Rock, Stow-on-Wold, Tenbury, Tewkesbury, and
Winchcombe.

AREA AND POPULATION.

6. The area in 1898, and the population for the years 1881, 1891,

and 1898 (estimated) of the Administrative County are set forth in Table I.

TABLE I.

| Districts. | Area in Statute Acres in 1898. | Population. | | | |
|-------------------|--------------------------------|-------------|---------|------------------------------|-------------------|
| | | 1881. | 1891. | Estimated by M.O.H. for 1898 | Increase 1891-98. |
| Urban (13) - - - | 55,146 | 135,785 | 157,308 | 187,678 | 30,370 |
| Rural (17) - - - | 418,178 | 132,840 | 140,075 | 157,254 | 17,179 |
| Totals (30) - - - | 473,324 | 268,625 | 297,383 | 344,932 | 47,549 |

7. As usual, the estimated populations are compiled from the Annual Reports of the Medical Officers of Health, and form the basis on which the County statistics are calculated. Table I. shows that during 1891-98 there has been an estimated increase in the population of 47,549.

8. I have more than once expressed the opinion that these estimated populations may be very wide of the mark when the Census of 1901 is issued, and I have frequently urged the advantages of a quinquennial, instead of a decennial Census.

9. In some Districts in London it has been found that estimated populations have been in error to the extent of 39 per cent., and the Registrar General has become so convinced of such a possibility, as the distance from the last Census increases, that he has ceased to issue estimated populations in the case of the 50 smaller towns, and at the same time calls attention to the untrustworthy character of the estimates relating to the population of the 28 principal towns.

10. A Quinquennial Census has been taken in Sweden since 1805, in France since 1835, and in the German Empire since 1866, and it is to be hoped that an Act may be passed enabling this to be done in England.

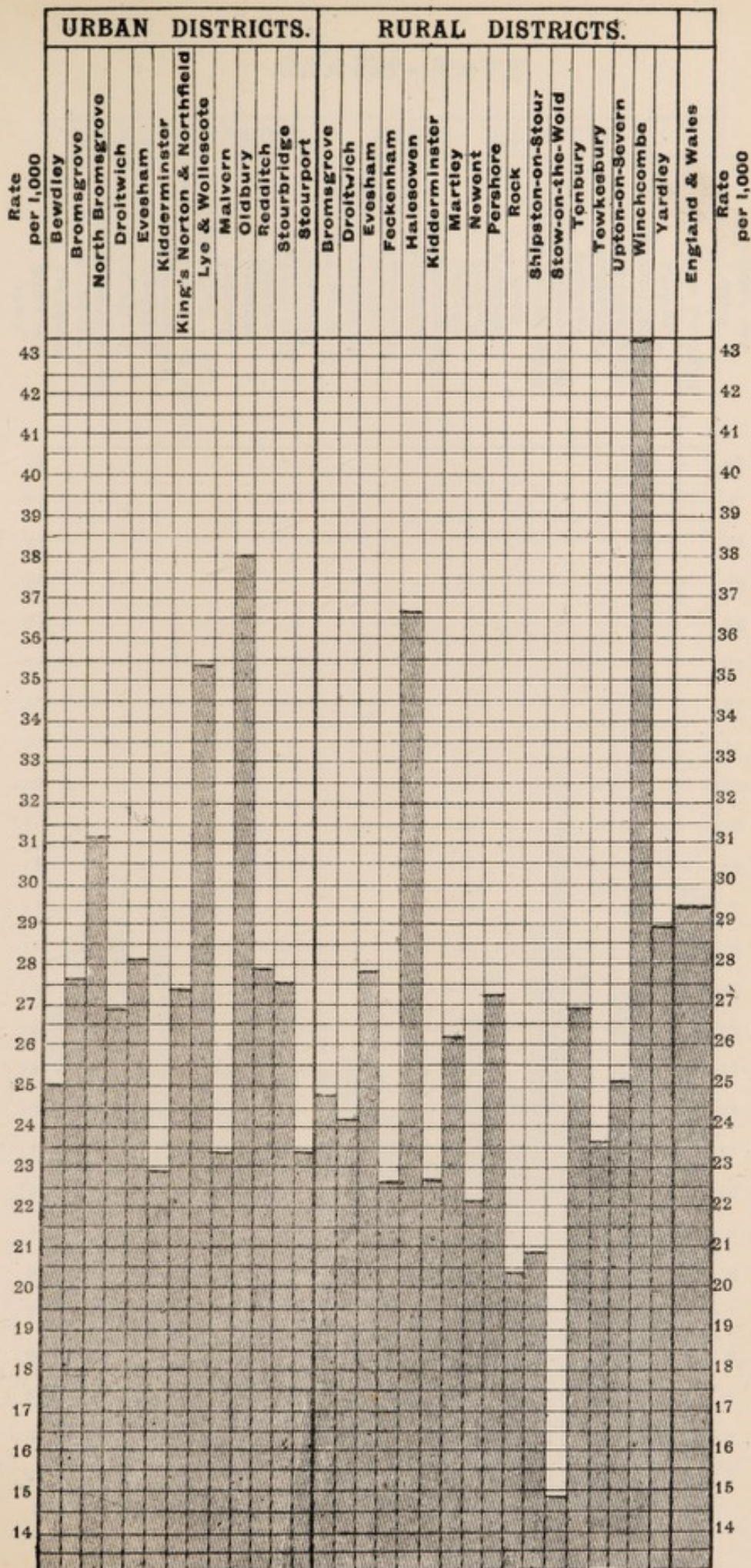
11. Such a Census need not necessarily be as elaborate or as costly as a decennial one.

VITAL STATISTICS.

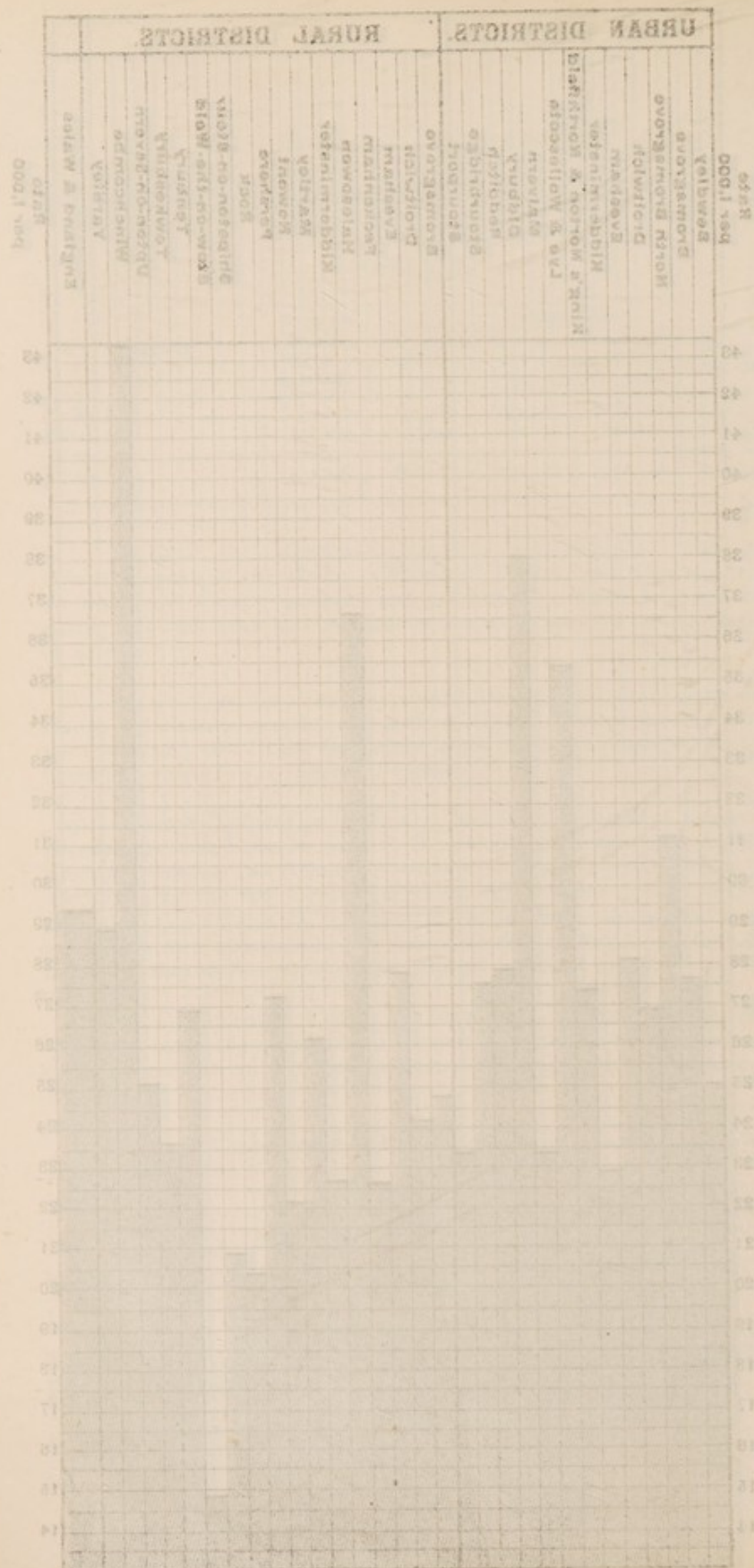
BIRTHS.

12. Table II. compares the No. of Births and Birth-Rates of the Administrative County with those of England and Wales during the years 1896-98 inclusive.

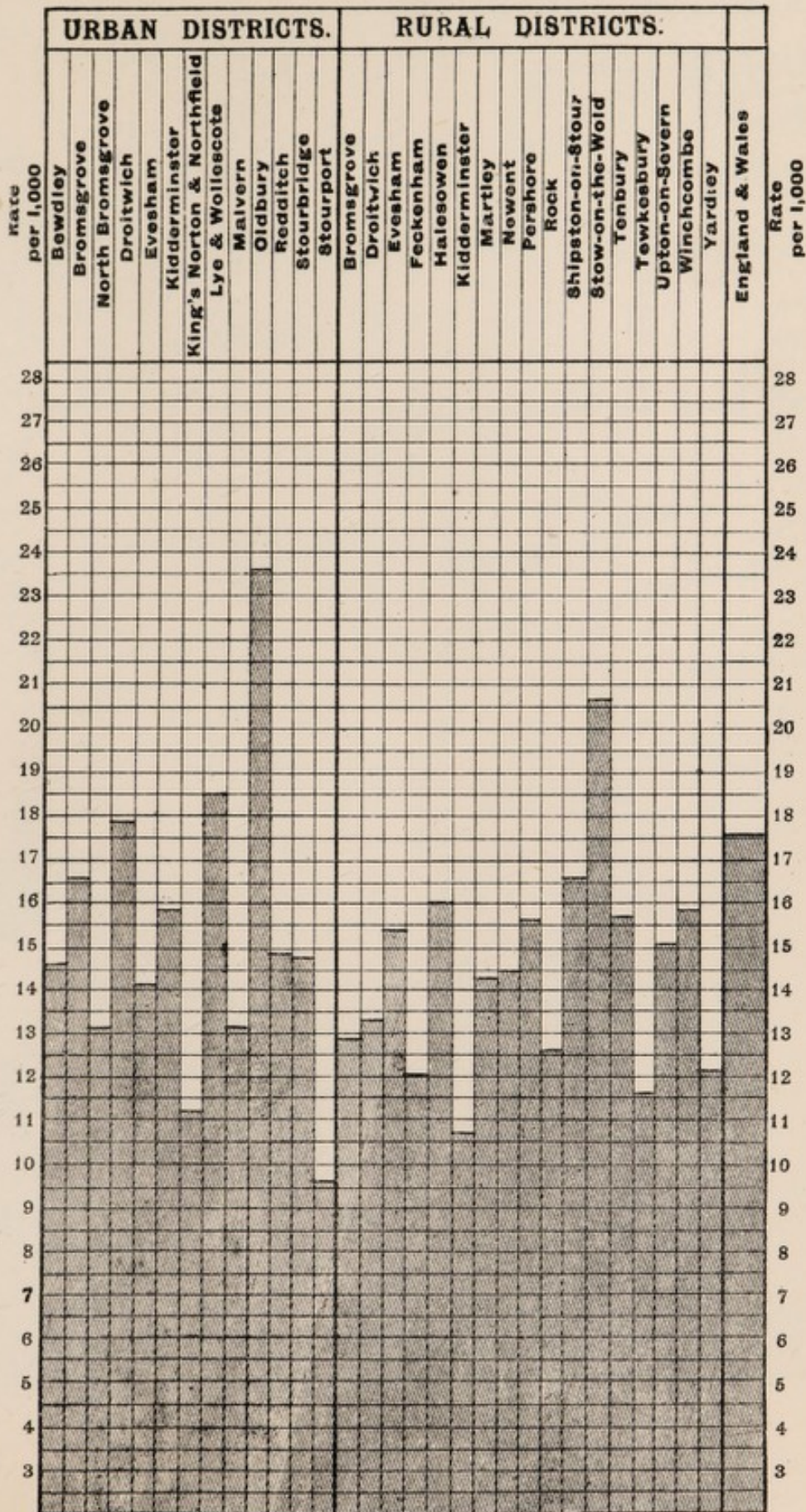
BIRTH - RATE



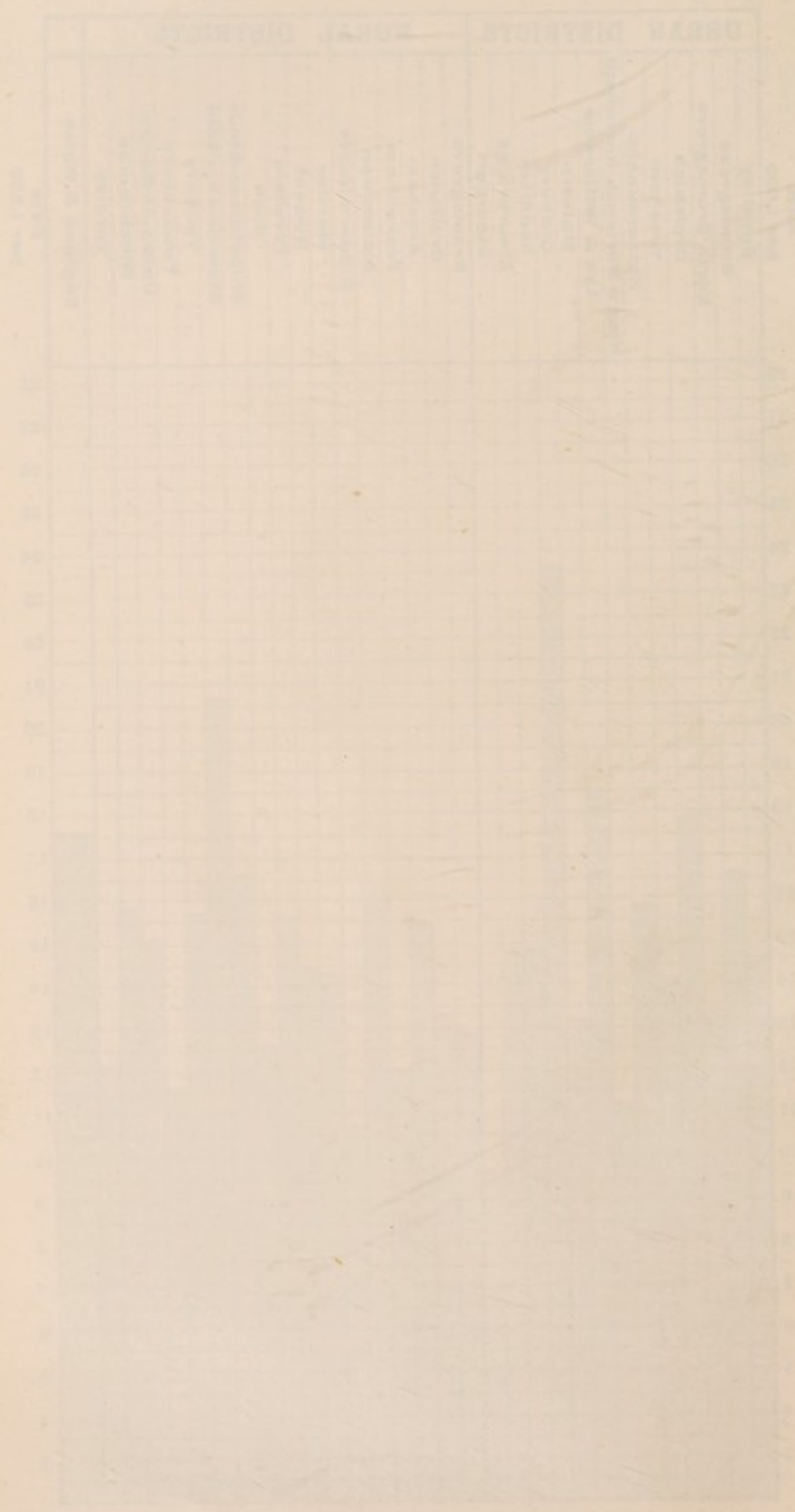
BIRTH - RATE



DEATH - RATE

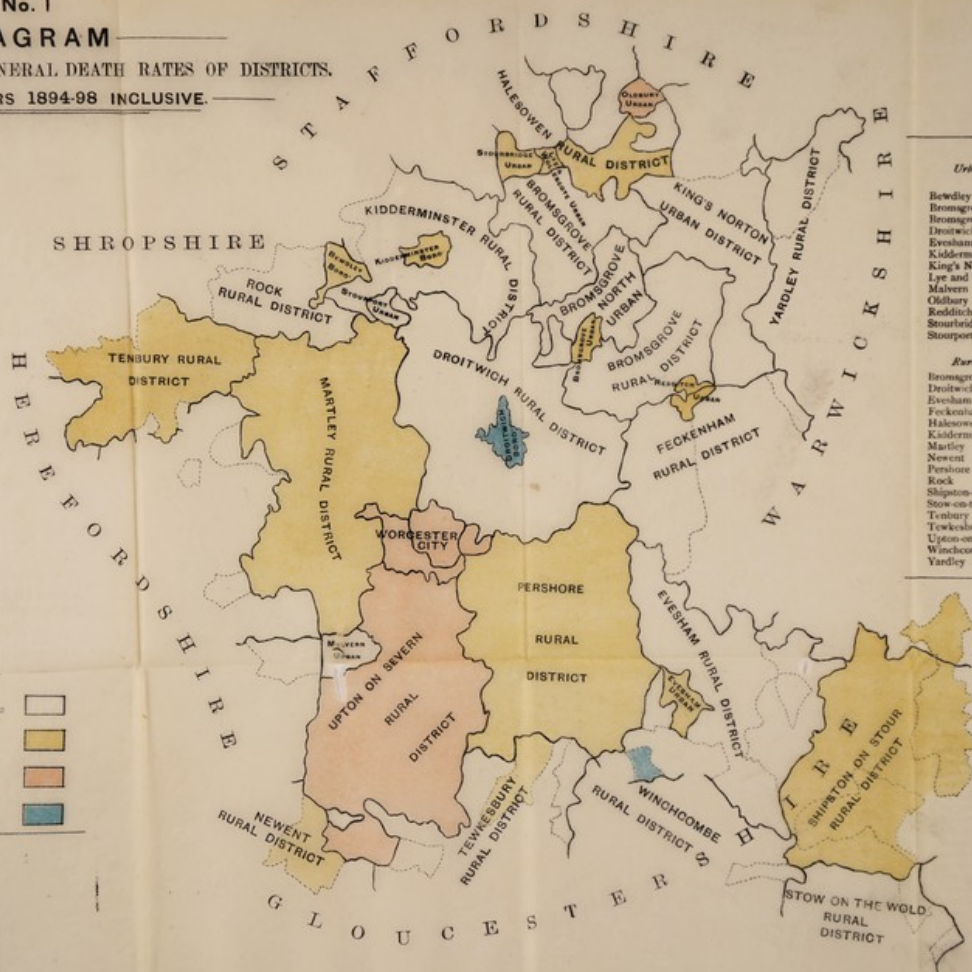


DEATH RATE



No. 1
DIAGRAM

SHOWING THE AVERAGE GENERAL DEATH RATES OF DISTRICTS.
FOR THE YEARS 1894-98 INCLUSIVE.



DEATH RATES.

| Urban Districts | Average for Years | per 1,000 | Average for Years | per 1,000 |
|-------------------|-------------------|-----------|-------------------|-----------|
| Bowdley | 1894-98 | 16.7 | 1884-98 | 16.2 |
| Bromsgrove | 1894-98 | 16.4 | 1884-98 | 15.3 |
| Bromsgrove, North | 1894-98 | 13.4 | 1884-98 | 15.3 |
| Droitwich | 1894-98 | 21.1 | 1889-98 | 20.7 |
| Evesham | 1894-98 | 14.2 | 1884-98 | 15.2 |
| Kidderminster | 1894-98 | 16.6 | 1884-98 | 17.4 |
| King's Norton | 1894-98 | 12.6 | 1884-98 | 12.8 |
| Lye and Wellscote | 1894-98 | 16.8 | 1884-98 | 18.1 |
| Mabern | 1894-98 | 13.4 | 1889-98 | 18.4 |
| Oldbury | 1894-98 | 19.1 | 1884-98 | 20.8 |
| Redditch | 1894-98 | 16.1 | 1884-98 | 16.4 |
| Stourbridge | 1894-98 | 15.1 | 1884-98 | 16.4 |
| Stourport | 1894-98 | 13.6 | 1889-98 | 15.6 |
| Rural Districts. | | | | |
| Bromsgrove | 1894-98 | 12.2 | 1884-98 | 13.8 |
| Droitwich | 1894-98 | 13.2 | 1884-98 | 14.2 |
| Evesham | 1894-98 | 13.6 | 1889-98 | 14.0 |
| Feckenham | 1894-98 | 13.1 | 1889-98 | 13.5 |
| Halesowen | 1894-98 | 16.6 | 1884-98 | 7.9 |
| Kidderminster | 1894-98 | 11.9 | 1889-98 | 13.1 |
| Martley | 1894-98 | 14.6 | 1884-98 | 15.5 |
| Newent | 1894-98 | 14.0 | 1889-98 | 17.1 |
| Pershore | 1894-98 | 15.6 | 1889-98 | 15.8 |
| Rock | 1894-98 | 13.4 | 1889-98 | 15.5 |
| Shipton-on-Stour | 1894-98 | 16.0 | 1889-98 | 15.0 |
| Stow-on-the-Wold | 1894-98 | 13.8 | 1889-98 | 14.7 |
| Tenbury | 1894-98 | 15.5 | 1889-98 | 16.4 |
| Tewkesbury | 1894-98 | 15.6 | 1889-98 | 15.4 |
| Upton-on-Severn | 1894-98 | 17.0 | 1884-98 | 17.0 |
| Winchcombe | 1894-98 | 20.6 | 1889-98 | 18.1 |
| Yardley | 1894-98 | 12.3 | 1889-98 | 13.1 |

References.

| | | |
|-------------|--------------------|--|
| Death Rates | under 14 per 1,000 | |
| " | 14 and under 17 " | |
| " | 17 " 20 " | |
| " | 20 " 25 " | |

DEATH RATES

| Urban Districts | Average for Years | per 1,000 | Average for Years | per 1,000 |
|-----------------|-------------------------|--------------|-------------------------|--------------|
| Widley | 1894-98 | = 16.7 | 1884-98 | = 16.3 |
| Widley | 1894-98 | = 16.4 | 1884-98 | = 19.3 |
| Widley, North | 1894-98 | = 13.4 | 1884-98 | = 15.3 |
| Widley | 1894-98 | = 21.1 | 1884-98 | = 20.7 |
| Widley | 1894-98 | = 14.2 | 1884-98 | = 15.2 |
| Widley | 1894-98 | = 16.6 | 1884-98 | = 17.1 |
| Widley | 1894-98 | = 13.6 | 1884-98 | = 12.8 |
| Widley | 1894-98 | = 16.3 | 1884-98 | = 15.1 |
| Widley | 1894-98 | = 14.4 | 1884-98 | = 13.2 |
| Widley | 1894-98 | = 15.1 | 1884-98 | = 14.3 |
| Widley | 1894-98 | = 16.2 | 1884-98 | = 15.4 |
| Widley | 1894-98 | = 13.1 | 1884-98 | = 12.5 |
| Widley | 1894-98 | = 12.0 | 1884-98 | = 11.6 |
| Widley | 1894-98 | = 13.3 | 1884-98 | = 12.7 |
| Widley | 1894-98 | = 14.5 | 1884-98 | = 13.8 |
| Widley | 1894-98 | = 15.7 | 1884-98 | = 14.9 |
| Widley | 1894-98 | = 16.8 | 1884-98 | = 16.0 |
| Widley | 1894-98 | = 17.9 | 1884-98 | = 17.1 |
| Widley | 1894-98 | = 19.0 | 1884-98 | = 18.2 |
| Widley | 1894-98 | = 20.1 | 1884-98 | = 19.3 |
| Widley | 1894-98 | = 21.2 | 1884-98 | = 20.4 |
| Widley | 1894-98 | = 22.3 | 1884-98 | = 21.5 |
| Widley | 1894-98 | = 23.4 | 1884-98 | = 22.6 |
| Widley | 1894-98 | = 24.5 | 1884-98 | = 23.7 |
| Widley | 1894-98 | = 25.6 | 1884-98 | = 24.8 |
| Widley | 1894-98 | = 26.7 | 1884-98 | = 25.9 |
| Widley | 1894-98 | = 27.8 | 1884-98 | = 27.0 |
| Widley | 1894-98 | = 28.9 | 1884-98 | = 28.1 |
| Widley | 1894-98 | = 30.0 | 1884-98 | = 29.2 |
| Widley | 1894-98 | = 31.1 | 1884-98 | = 30.3 |
| Widley | 1894-98 | = 32.2 | 1884-98 | = 31.4 |
| Widley | 1894-98 | = 33.3 | 1884-98 | = 32.5 |
| Widley | 1894-98 | = 34.4 | 1884-98 | = 33.6 |
| Widley | 1894-98 | = 35.5 | 1884-98 | = 34.7 |
| Widley | 1894-98 | = 36.6 | 1884-98 | = 35.8 |
| Widley | 1894-98 | = 37.7 | 1884-98 | = 36.9 |
| Widley | 1894-98 | = 38.8 | 1884-98 | = 38.0 |
| Widley | 1894-98 | = 39.9 | 1884-98 | = 39.1 |
| Widley | 1894-98 | = 41.0 | 1884-98 | = 40.2 |
| Widley | 1894-98 | = 42.1 | 1884-98 | = 41.3 |
| Widley | 1894-98 | = 43.2 | 1884-98 | = 42.4 |
| Widley | 1894-98 | = 44.3 | 1884-98 | = 43.5 |
| Widley | 1894-98 | = 45.4 | 1884-98 | = 44.6 |
| Widley | 1894-98 | = 46.5 | 1884-98 | = 45.7 |
| Widley | 1894-98 | = 47.6 | 1884-98 | = 46.8 |
| Widley | 1894-98 | = 48.7 | 1884-98 | = 47.9 |
| Widley | 1894-98 | = 49.8 | 1884-98 | = 49.0 |
| Widley | 1894-98 | = 50.9 | 1884-98 | = 50.1 |
| Widley | 1894-98 | = 52.0 | 1884-98 | = 51.2 |
| Widley | 1894-98 | = 53.1 | 1884-98 | = 52.3 |
| Widley | 1894-98 | = 54.2 | 1884-98 | = 53.4 |
| Widley | 1894-98 | = 55.3 | 1884-98 | = 54.5 |
| Widley | 1894-98 | = 56.4 | 1884-98 | = 55.6 |
| Widley | 1894-98 | = 57.5 | 1884-98 | = 56.7 |
| Widley | 1894-98 | = 58.6 | 1884-98 | = 57.8 |
| Widley | 1894-98 | = 59.7 | 1884-98 | = 58.9 |
| Widley | 1894-98 | = 60.8 | 1884-98 | = 60.0 |
| Widley | 1894-98 | = 61.9 | 1884-98 | = 61.1 |
| Widley | 1894-98 | = 63.0 | 1884-98 | = 62.2 |
| Widley | 1894-98 | = 64.1 | 1884-98 | = 63.3 |
| Widley | 1894-98 | = 65.2 | 1884-98 | = 64.4 |
| Widley | 1894-98 | = 66.3 | 1884-98 | = 65.5 |
| Widley | 1894-98 | = 67.4 | 1884-98 | = 66.6 |
| Widley | 1894-98 | = 68.5 | 1884-98 | = 67.7 |
| Widley | 1894-98 | = 69.6 | 1884-98 | = 68.8 |
| Widley | 1894-98 | = 70.7 | 1884-98 | = 69.9 |
| Widley | 1894-98 | = 71.8 | 1884-98 | = 71.0 |
| Widley | 1894-98 | = 72.9 | 1884-98 | = 72.1 |
| Widley | 1894-98 | = 74.0 | 1884-98 | = 73.2 |
| Widley | 1894-98 | = 75.1 | 1884-98 | = 74.3 |
| Widley | 1894-98 | = 76.2 | 1884-98 | = 75.4 |
| Widley | 1894-98 | = 77.3 | 1884-98 | = 76.5 |
| Widley | 1894-98 | = 78.4 | 1884-98 | = 77.6 |
| Widley | 1894-98 | = 79.5 | 1884-98 | = 78.7 |
| Widley | 1894-98 | = 80.6 | 1884-98 | = 79.8 |
| Widley | 1894-98 | = 81.7 | 1884-98 | = 80.9 |
| Widley | 1894-98 | = 82.8 | 1884-98 | = 82.0 |
| Widley | 1894-98 | = 83.9 | 1884-98 | = 83.1 |
| Widley | 1894-98 | = 85.0 | 1884-98 | = 84.2 |
| Widley | 1894-98 | = 86.1 | 1884-98 | = 85.3 |
| Widley | 1894-98 | = 87.2 | 1884-98 | = 86.4 |
| Widley | 1894-98 | = 88.3 | 1884-98 | = 87.5 |
| Widley | 1894-98 | = 89.4 | 1884-98 | = 88.6 |
| Widley | 1894-98 | = 90.5 | 1884-98 | = 89.7 |
| Widley | 1894-98 | = 91.6 | 1884-98 | = 90.8 |
| Widley | 1894-98 | = 92.7 | 1884-98 | = 91.9 |
| Widley | 1894-98 | = 93.8 | 1884-98 | = 93.0 |
| Widley | 1894-98 | = 94.9 | 1884-98 | = 94.1 |
| Widley | 1894-98 | = 96.0 | 1884-98 | = 95.2 |
| Widley | 1894-98 | = 97.1 | 1884-98 | = 96.3 |
| Widley | 1894-98 | = 98.2 | 1884-98 | = 97.4 |
| Widley | 1894-98 | = 99.3 | 1884-98 | = 98.5 |
| Widley | 1894-98 | = 100.4 | 1884-98 | = 99.6 |
| Widley | 1894-98 | = 101.5 | 1884-98 | = 100.7 |
| Widley | 1894-98 | = 102.6 | 1884-98 | = 101.8 |
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| Widley | 1894-98 | = 115.8 | 1884-98 | = 115.0 |
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| Widley | 1894-98 | = 118.0 | 1884-98 | = 117.2 |
| Widley | 1894-98 | = 119.1 | 1884-98 | = 118.3 |
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| Widley | 1894-98 | = 187.3 | 1884-98 | = 186.5 |
| Widley | 1894-98 | = 188.4 | 1884-98 | = 187.6 |
| Widley | 1894-98 | = 189.5 | 1884-98 | = 188.7 |
| Widley | 1894-98 | = 190.6 | 1884-98 | = 189.8 |
| Widley | 1894-98 | = 191.7 | 1884-98 | = 190.9 |
| Widley | 1894-98 | = 192.8 | 1884-98 | = 192.0 |
| Widley | 1894-98 | = 193.9 | 1884-98 | = 193.1 |
| Widley | 1894-98 | = 195.0 | 1884-98 | = 194.2 |
| Widley | 1894-98 | = 196.1 | 1884-98 | = 195.3 |
| Widley | 1894-98 | = 197.2 | 1884-98 | = 196.4 |
| Widley | 1894-98 | = 198.3 | 1884-98 | = 197.5 |
| Widley | 1894-98 | = 199.4 | 1884-98 | = 198.6 |
| Widley | 1894-98 | = 200.5 | 1884-98 | = 199.7 |
| Widley | 1894-98 | = 201.6 | 1884-98 | = 200.8 |
| Widley | 1894-98 | = 202.7 | 1884-98 | = 201.9 |
| Widley | 1894-98 | = 203.8 | 1884-98 | = 203.0 |
| Widley | 1894-98 | = 204.9 | 1884-98 | = 204.1 |
| Widley | 1894-98 | = 206.0 | 1884-98 | = 205.2 |
| Widley | 1894-98 | = 207.1 | 1884-98 | = 206.3 |
| Widley | 1894-98 | = 208.2 | 1884-98 | = 207.4 |
| Widley | 1894-98 | = 209.3 | 1884-98 | = 208.5 |
| Widley | 1894-98 | = 210.4 | 1884-98 | = 209.6 |
| Widley | 1894-98 | = 211.5 | 1884-98 | = 210.7 |
| Widley | 1894-98 | = 212.6 | 1884-98 | = 211.8 |
| Widley | 1894-98 | = 213.7 | 1884-98 | = 212.9 |
| Widley | 1894-98 | = 214.8 | 1884-98 | = 214.0 |
| Widley | 1894-98 | = 215.9 | 1884-98 | = 215.1 |
| Widley | 1894-98 | = 217.0 | 1884-98 | = 216.2 |
| Widley | 1894-98 | = 218.1 | 1884-98 | = 217.3 |
| Widley | 1894-98 | = 219.2 | 1884-98 | = 218.4 |
| Widley | 1894-98 | = 220.3 | 1884-98 | = 219.5 |
| Widley | 1894-98 | = 221.4 | 1884-98 | = 220.6 |
| Widley | 1894-98 | = 222.5 | 1884-98 | = 221.7 |
| Widley | 1894-98 | = 223.6 | 1884-98 | = 222.8 |
| Widley | 1894-98 | = 224.7 | 1884-98 | = 223.9 |
| Widley | 1894-98 | = 225.8 | 1884-98 | = 225.0 |
| Widley | 1894-98 | = 226.9 | 1884-98 | = 226.1 |
| Widley | 1894-98 | = 228.0 | 1884-98 | = 227.2 |
| Widley | 1894-98 | = 229.1 | 1884-98 | = 228.3 |
| Widley | 1894-98 | = 230.2 | 1884-98 | = 229.4 |
| Widley | 1894-98 | = 231.3 | 1884-98 | = 230.5 |
| Widley | 1894-98 | = 232.4 | 1884-98 | = 231.6 |
| Widley | 1894-98 | = 233.5 | 1884-98 | = 232.7 |
| Widley | 1894-98 | = 234.6 | 1884-98 | = 233.8 |
| Widley | 1894-98 | = 235.7 | | |



Death Rates
under 14 per 1,000

TABLE II.

| Districts. | No. of Births. | | | Rate per 1,000 of Population. | | |
|----------------------------|----------------|---------|---------|-------------------------------|-------|-------|
| | 1898. | 1897. | 1896. | 1898. | 1897. | 1896. |
| Urban (13) - - - | 5,348 | 3,904 | 3,517 | 28·4 | 28·4 | 28·1 |
| Rural (17) - - - | 4,289 | 5,353 | 5,266 | 27·2 | 27·2 | 26·3 |
| Administrative County (30) | 9,637 | 9,257 | 8,783 | 27·9 | 27·7 | 27·3 |
| England and Wales - | 922,873 | 921,104 | 917,201 | 29·4 | 29·7 | 29·7 |

13. It will be seen that the County Birth-Rate for the past 3 years has varied but little, that for last year being below the corresponding one of England and Wales.

14. As usual, the Birth-Rate of the Urban Districts was highest in the Manufacturing towns of Oldbury (38·0), and Lye and Wollescote (35·4).

15. Similarly in the Rural Districts, Halesowen, which is also largely a trading community, has a high Birth-Rate (36·6).

16. Comparisons of the various Birth-Rates in the County Districts are given in the accompanying Chart and Table A (appended).

DEATHS.

17. Table III. compares the number of Deaths and Death-Rates of the County with those of England and Wales for the years 1896-98 inclusive.

TABLE III.

| Districts. | No. of Deaths. | | | Rate per 1,000 of Population. | | |
|----------------------------|----------------|---------|---------|-------------------------------|-------|-------|
| | 1898. | 1897. | 1896. | 1898. | 1897. | 1896. |
| Urban (13) - - - | 2,991 | 2,198 | 2,023 | 15·8 | 16·0 | 16·6 |
| Rural (17) - - - | 2,188 | 2,858 | 2,669 | 13·9 | 14·5 | 13·3 |
| Administrative County (30) | 5,179 | 5,056 | 4,692 | 15·0 | 15·1 | 14·6 |
| England and Wales - | 552,040 | 541,426 | 527,929 | 17·6 | 17·4 | 17·1 |

18. Table III. shows that the rate for 1898 was slightly below that of 1897, and but little higher than the exceptionally low rate of 1896.

19. The Death-Rates of the respective Districts in the County in 1898 are given in the annexed Chart and Table A (appended), from which it will be seen that they exceeded that of England and Wales (17·6) in 4 Districts—viz.: In Droitwich (17·9), Lye and Wollescote

(18.5), Oldbury (23.6), Urban Districts; and in Stow-on-Wold (20.7), Rural District.

20. Dr. Roden reports, with regard to Droitwich, that if the deaths of persons not belonging to the Borough are excluded, the Death-rate is reduced from 17.9 to 13.6. The high rate in Lye and Wollescote District (18.5) is due to the prevalence of Zymotic disease; inasmuch as if the 62 deaths from this class of preventable disorders were excluded, the general Death-rate in Lye and Wollescote would become 13.5.

21. The high rate in the Oldbury Urban District (23.6), Dr. Cunningham explains, is due to the prevalence of Typhoid Fever (26 deaths) and Measles (68 deaths).

22. The excessive mortality in the Stow-on-the-Wold District is accidental, and due to 7 deaths in a population of 248: 6 of which occurred in persons aged 65 and upwards.

23. I propose later on to allude to the Vital Statistics of the County for the past 10 years (see paragraphs 90-96).

24. The average Death-rates in the County for the years 1894-98 inclusive are illustrated by the first coloured map which I have prepared, showing the Districts which have

| | | |
|----------------------------|--------|----------------|
| Mortalities not exceeding- | - | - 14 per 1,000 |
| " of 14 and not exceeding | - 17 | " |
| " of 17 | " - 20 | " |
| " of 20 | " - 23 | " |

during that period. The Table given on the map also shows the Death-rates for longer periods.

ZYMOTIC DISEASES.

25. Tables IV. compares the number of Death, and the Rates of the "7 principal Zymotic Diseases" in the Urban and Rural Districts collectively, and Administrative County, with those of England and Wales, for the years 1896-98 inclusive.

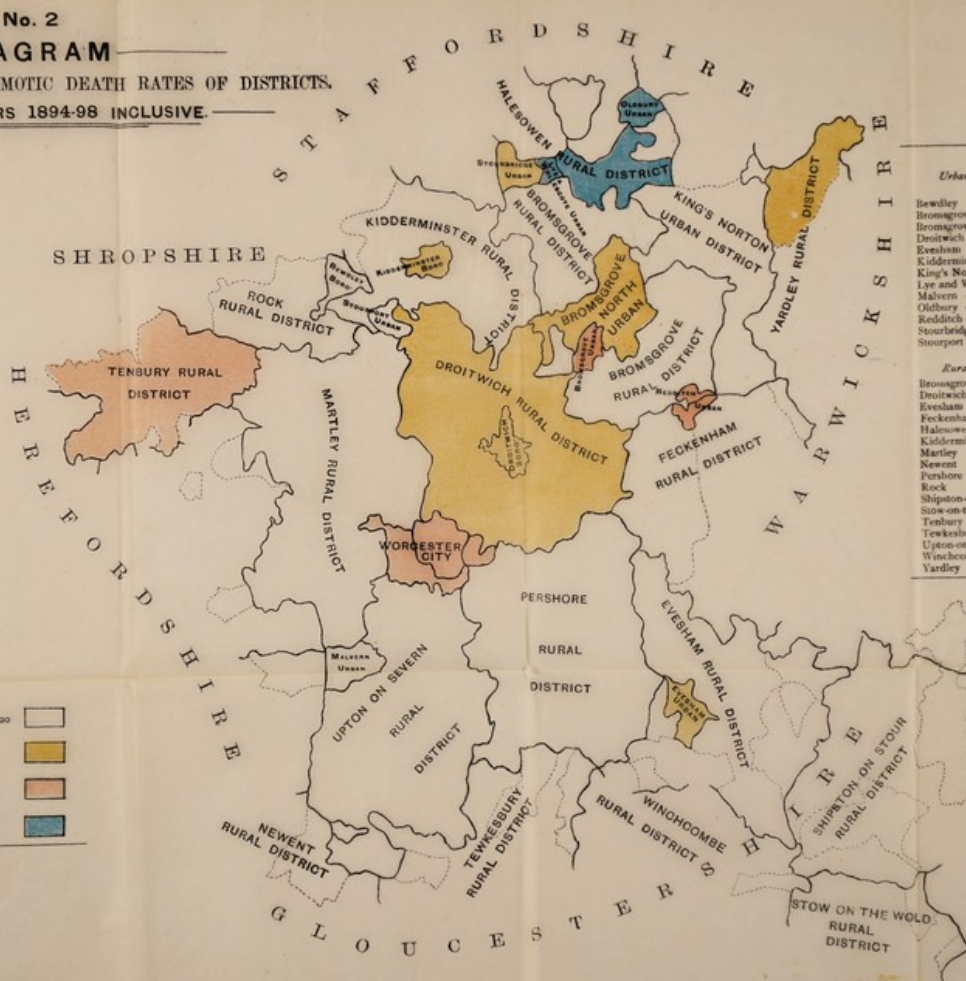
TABLE IV.

| Districts. | No. of Deaths (a) | | | Rate per 1,000 of Population. (a) | | |
|----------------------------|-------------------|--------|--------|-----------------------------------|-------|-------|
| | 1898. | 1897. | 1896. | 1898. | 1897. | 1896. |
| Urban (13) - - - | 365 | 247 | 202 | 1.9 | 1.8 | 1.6 |
| Rural (17) - - - | 196 | 215 | 257 | 1.2 | 1.0 | 1.2 |
| Administrative County (30) | 561 | 462 | 459 | 1.6 | 1.3 | 1.4 |
| England and Wales - - | 69,714 | 67,051 | 66,936 | 2.2 | 2.15 | 2.18 |

(a) Includes deaths from Smallpox, Measles, Scarlatina, Diphtheria, Whooping Cough, Fever, and Diarrhoea.

No. 2
DIAGRAM

SHOWING THE AVERAGE ZYMOTIC DEATH RATES OF DISTRICTS.
FOR THE YEARS 1894-98 INCLUSIVE.



ZYMOTIC DEATH RATES.

| Urban Districts | Average for Years | per 1,000 | Average for Years | per 1,000 |
|--------------------|-------------------|-----------|-------------------|-----------|
| Bewdley | 1894-98 | 8 | 1884-98 | 10 |
| Bromsgrove | 1894-98 | 15 | 1884-98 | 12 |
| Bromsgrove, North | 1894-98 | 14 | 1884-98 | 14 |
| Droitwich | 1894-98 | 12 | 1884-98 | 10 |
| Evesham | 1894-98 | 10 | 1884-98 | 15 |
| Kidderminster | 1894-98 | 10 | 1884-98 | 13 |
| King's Norton | 1894-98 | 9 | 1884-98 | 8 |
| Lye and Wollescote | 1894-98 | 38 | 1884-98 | 24 |
| Malvern | 1894-98 | 4 | 1884-98 | 4 |
| Oldbury | 1894-98 | 25 | 1884-98 | 24 |
| Redditch | 1894-98 | 19 | 1884-98 | 20 |
| Stourbridge | 1894-98 | 11 | 1884-98 | 14 |
| Stourport | 1894-98 | 9 | 1884-98 | 9 |
| Rural Districts. | | | | |
| Bromsgrove | 1894-98 | 7 | 1884-98 | 10 |
| Droitwich | 1894-98 | 10 | 1884-98 | 9 |
| Evesham | 1894-98 | 5 | 1884-98 | 6 |
| Feckenham | 1894-98 | 2 | 1884-98 | 6 |
| Halesowen | 1894-98 | 26 | 1884-98 | 23 |
| Kidderminster | 1894-98 | 8 | 1884-98 | 8 |
| Martley | 1894-98 | 5 | 1884-98 | 7 |
| Newent | 1894-98 | 14 | 1884-98 | 2 |
| Pershore | 1894-98 | 3 | 1884-98 | 4 |
| Rock | 1894-98 | 3 | 1884-98 | 12 |
| Shipston-on-Stour | 1894-98 | 8 | 1884-98 | 8 |
| Stow-on-the-Wold | 1894-98 | 5 | 1884-98 | 5 |
| Tenbury | 1894-98 | 17 | 1884-98 | 10 |
| Tewkesbury | 1894-98 | 4 | 1884-98 | 3 |
| Upton-on-Severn | 1894-98 | 4 | 1884-98 | 6 |
| Winchcombe | 1894-98 | 0.0 | 1884-98 | 0.0 |
| Vardley | 1894-98 | 12 | 1884-98 | 10 |

References.

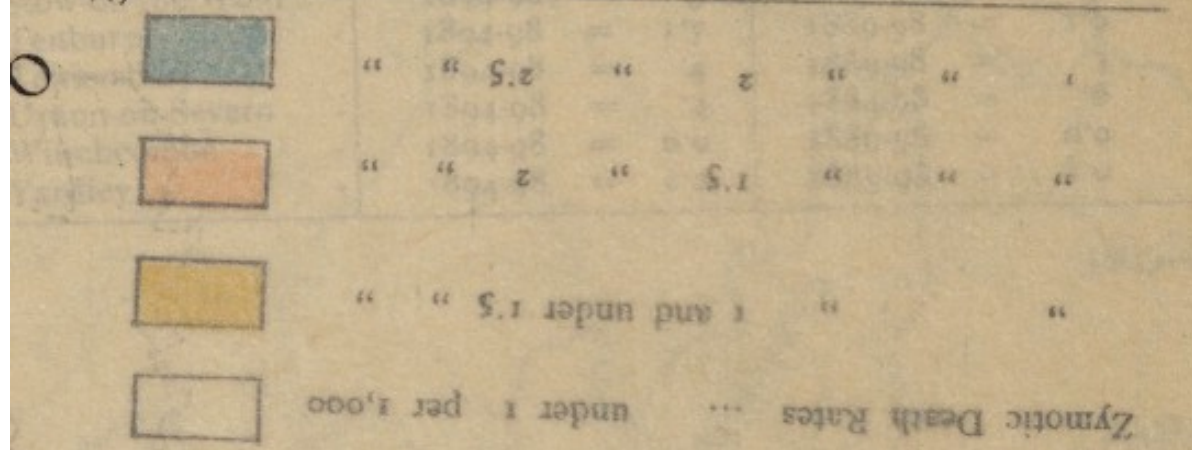
| | | |
|---------------------------|-------------------|--|
| Zymotic Death Rates ... | under 1 per 1,000 | |
| " " " 1 and under 1.5 " " | | |
| " " " 1.5 " 2 " " | | |
| " " " 2 " 2.5 " " | | |

DIAGRAM

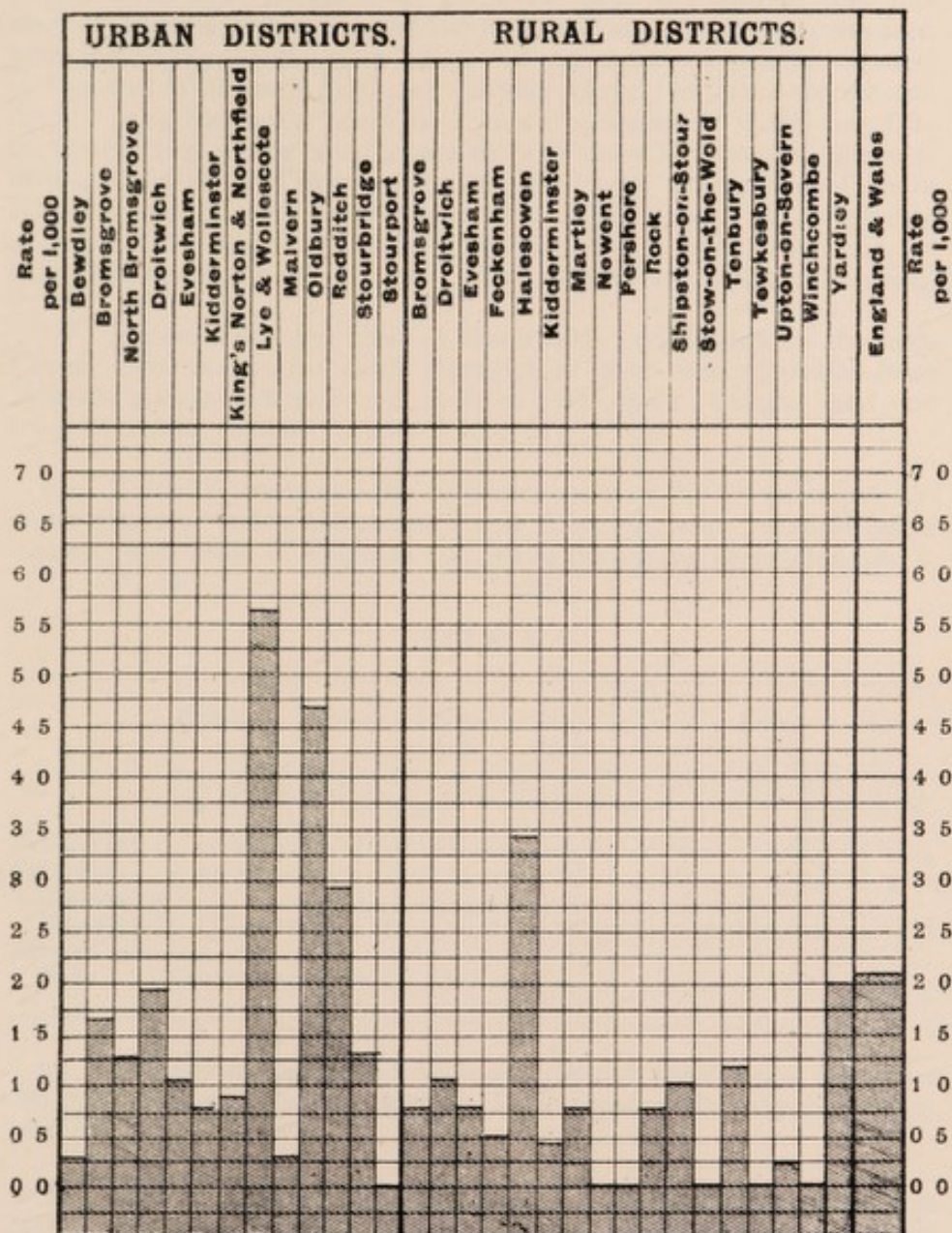
SHOWING THE AVERAGE ZYMOTIC DEATH RATES FOR THE YEARS 1894-98

ZYMOTIC DEATH RATES.

| Urban Districts | Average for Years | per 1,000 | Average for Years | per 1,000 |
|------------------|-------------------|-----------|-------------------|-----------|
| Edwale | 1894-98 = | ·8 | 1884-98 = | 1·0 |
| Comsgrove | 1894-98 = | 1·8 | 1884-98 = | 2·2 |
| Comsgrove, North | 1894-98 = | 1·4 | 1884-98 = | 1·4 |
| Coitwich | 1894-98 = | 1·2 | 1889-98 = | 1·0 |
| Ham | 1894-98 = | 1·0 | 1884-98 = | 1·5 |
| Idderminster | 1894-98 = | 1·0 | 1884-98 = | 1·3 |
| ing's Norton | 1894-98 = | ·9 | 1884-98 = | ·8 |
| and Wollaton | 1894-98 = | ·6 | 1884-98 = | ·4 |
| Green | 1894-98 = | ·4 | 1884-98 = | ·4 |
| Alford | 1894-98 = | ·5 | 1884-98 = | ·5 |
| Widley | 1894-98 = | ·9 | 1884-98 = | ·9 |
| Widley | 1894-98 = | ·7 | 1884-98 = | ·7 |
| Widley | 1894-98 = | ·6 | 1884-98 = | ·6 |
| Widley | 1894-98 = | ·5 | 1884-98 = | ·5 |
| Widley | 1894-98 = | ·4 | 1884-98 = | ·4 |
| Widley | 1894-98 = | ·3 | 1884-98 = | ·3 |
| Widley | 1894-98 = | ·2 | 1884-98 = | ·2 |
| Widley | 1894-98 = | ·1 | 1884-98 = | ·1 |
| Widley | 1894-98 = | ·0 | 1884-98 = | ·0 |



ZYMOTIC DEATH RATE



| TABLE NO. 1 | | FISCAL YEAR 1900 | |
|-------------------|--|---------------------------|--|
| STATE OF NEW YORK | | DEPARTMENT OF AGRICULTURE | |
| COUNTY OF ALBANY | | DIVISION OF STATISTICS | |
| CULTIVATED LAND | | CROPPED LAND | |
| ACRES | | ACRES | |
| 1900 | | 1900 | |
| 1,000 | | 1,000 | |
| 2,000 | | 2,000 | |
| 3,000 | | 3,000 | |
| 4,000 | | 4,000 | |
| 5,000 | | 5,000 | |
| 6,000 | | 6,000 | |
| 7,000 | | 7,000 | |
| 8,000 | | 8,000 | |
| 9,000 | | 9,000 | |
| 10,000 | | 10,000 | |
| 11,000 | | 11,000 | |
| 12,000 | | 12,000 | |
| 13,000 | | 13,000 | |
| 14,000 | | 14,000 | |
| 15,000 | | 15,000 | |
| 16,000 | | 16,000 | |
| 17,000 | | 17,000 | |
| 18,000 | | 18,000 | |
| 19,000 | | 19,000 | |
| 20,000 | | 20,000 | |
| 21,000 | | 21,000 | |
| 22,000 | | 22,000 | |
| 23,000 | | 23,000 | |
| 24,000 | | 24,000 | |
| 25,000 | | 25,000 | |
| 26,000 | | 26,000 | |
| 27,000 | | 27,000 | |
| 28,000 | | 28,000 | |
| 29,000 | | 29,000 | |
| 30,000 | | 30,000 | |
| 31,000 | | 31,000 | |
| 32,000 | | 32,000 | |
| 33,000 | | 33,000 | |
| 34,000 | | 34,000 | |
| 35,000 | | 35,000 | |
| 36,000 | | 36,000 | |
| 37,000 | | 37,000 | |
| 38,000 | | 38,000 | |
| 39,000 | | 39,000 | |
| 40,000 | | 40,000 | |
| 41,000 | | 41,000 | |
| 42,000 | | 42,000 | |
| 43,000 | | 43,000 | |
| 44,000 | | 44,000 | |
| 45,000 | | 45,000 | |
| 46,000 | | 46,000 | |
| 47,000 | | 47,000 | |
| 48,000 | | 48,000 | |
| 49,000 | | 49,000 | |
| 50,000 | | 50,000 | |
| 51,000 | | 51,000 | |
| 52,000 | | 52,000 | |
| 53,000 | | 53,000 | |
| 54,000 | | 54,000 | |
| 55,000 | | 55,000 | |
| 56,000 | | 56,000 | |
| 57,000 | | 57,000 | |
| 58,000 | | 58,000 | |
| 59,000 | | 59,000 | |
| 60,000 | | 60,000 | |
| 61,000 | | 61,000 | |
| 62,000 | | 62,000 | |
| 63,000 | | 63,000 | |
| 64,000 | | 64,000 | |
| 65,000 | | 65,000 | |
| 66,000 | | 66,000 | |
| 67,000 | | 67,000 | |
| 68,000 | | 68,000 | |
| 69,000 | | 69,000 | |
| 70,000 | | 70,000 | |
| 71,000 | | 71,000 | |
| 72,000 | | 72,000 | |
| 73,000 | | 73,000 | |
| 74,000 | | 74,000 | |
| 75,000 | | 75,000 | |
| 76,000 | | 76,000 | |
| 77,000 | | 77,000 | |
| 78,000 | | 78,000 | |
| 79,000 | | 79,000 | |
| 80,000 | | 80,000 | |
| 81,000 | | 81,000 | |
| 82,000 | | 82,000 | |
| 83,000 | | 83,000 | |
| 84,000 | | 84,000 | |
| 85,000 | | 85,000 | |
| 86,000 | | 86,000 | |
| 87,000 | | 87,000 | |
| 88,000 | | 88,000 | |
| 89,000 | | 89,000 | |
| 90,000 | | 90,000 | |
| 91,000 | | 91,000 | |
| 92,000 | | 92,000 | |
| 93,000 | | 93,000 | |
| 94,000 | | 94,000 | |
| 95,000 | | 95,000 | |
| 96,000 | | 96,000 | |
| 97,000 | | 97,000 | |
| 98,000 | | 98,000 | |
| 99,000 | | 99,000 | |
| 100,000 | | 100,000 | |

26. Table IV. shows that the County Zymotic rate (1.6) for 1898 is lower than the corresponding one for England and Wales (2.2). The Zymotic Death-rate of the following Districts for 1898 exceeded that of England and Wales (2.2), viz. :

In Lye and Wollescote (5.7), Oldbury (4.7), Redditch (2.9), Urban Districts, and in Halesowen Rural District (3.4).

27. It is also obvious from Table IV. that 561 deaths from this class of diseases were registered last year in Worcestershire, as compared with 462 in 1897, and 459 in 1896. 183 of these 561 deaths occurred in Lye and Wollescote (62), and Oldbury (121); in other words, the deaths from the seven principal Zymotic diseases in these two Districts were very nearly equal to one-third of the total number registered in the whole of the County, although the joint population of these Districts was less than one-ninth of that of the County. The high rate at Redditch is due to 8 deaths from Scarlatina, 2 from Diphtheria, 20 from Whooping Cough, 3 from Typhoid Fever, and 7 from Diarrhoea.

28. Halesowen Rural District also largely contributed to the high County Zymotic-rate for 1898, inasmuch as there were 25 deaths from Measles, 9 from Scarlet Fever, 11 from Whooping Cough, and 20 from Diarrhoea, in that District during that period.

29. Table V. compares the collective rates of the "7 principal Zymotic diseases" in the Urban and Rural Districts and Administrative County, with those of England and Wales during the years 1896-98.

TABLE V.

| District. | Smallpox. | | | Measles. | | | Scarlatina. | | | Diphtheria. | | | Whooping Cough. | | | Fever. | | | Diarrhoea. | | |
|----------------------------|-----------|-------|-------|----------|-------|-------|-------------|-------|-------|-------------|-------|-------|-----------------|-------|-------|--------|-------|-------|------------|-------|-------|
| | 1898. | 1897. | 1896. | 1898. | 1897. | 1896. | 1898. | 1897. | 1896. | 1898. | 1897. | 1896. | 1898. | 1897. | 1896. | 1898. | 1897. | 1896. | 1898. | 1897. | 1896. |
| Urban (13) | 0.0 | 0.0 | 0.00 | 6 | 4 | 4 | 11 | 12 | 06 | 11 | 09 | 14 | 2 | 2 | 3 | 2 | 14 | 15 | 5 | 7 | 4 |
| Rural (17) | 0.0 | 0.0 | 0.0 | 2 | 2 | 3 | 11 | 13 | 14 | 11 | 12 | 2 | 2 | 16 | 3 | 09 | 05 | 07 | 4 | 3 | 11 |
| Administrative County (30) | 0.0 | 0.0 | 0.00 | 4 | 3 | 4 | 11 | 12 | 11 | 11 | 11 | 10 | 2 | 2 | 3 | 16 | 09 | 11 | 4 | 5 | 2 |
| England and Wales | 0.008 | 0.00 | 0.02 | 4 | 4 | 5 | 11 | 14 | 18 | 2 | 24 | 2 | 3 | 35 | 4 | 18 | 16 | 17 | 9 | 8 | 5 |

30. The second coloured map shows the average Zymotic Rates for the years 1894-98, and also gives a Table showing the rates for longer periods.

31. Table VI. shows the total number of notifiable Zymotic Cases and Deaths, and Hospital cases and Hospital deaths in each District during 1898.

TABLE VI.
Urban Districts.

| District. | Estimated Population (1898). | Smallpox. | | | Measles. (a). | | | Scarlatina. | | | Diphtheria. | | | Membranous Group. | | | Fever. | | | Erysipelas. | | | Puerperal Fever. | | |
|---------------------------|---------------------------------|-----------|---------|-----------------|------------------|---------|------------------|-------------|---------|-----------------|-------------|---------|-----------------|----------------------|---------|------------------|--------|---------|-----------------|-------------|---------|-----------------|---------------------|---------|------------------|
| | | Cases. | Deaths. | Hospital Cases. | Cases. | Deaths. | Hospital Deaths. | Cases. | Deaths. | Hospital Cases. | Cases. | Deaths. | Hospital Cases. | Cases. | Deaths. | Hospital Deaths. | Cases. | Deaths. | Hospital Cases. | Cases. | Deaths. | Hospital Cases. | Cases. | Deaths. | Hospital Deaths. |
| Bewdley Borough | 2,876 | | | | | | | 6 | | | 1 | | | | | | 1 | 1 | | | | | | | |
| Bromsgrove | 8,150 | | | | | 2 | | 22 | 3 | 11 | 2 | | | | | | 3 | 2 | | 5 | | | 1 | | |
| Bromsgrove North | 5,350 | | | | | | | 11 | | 7 | | | | | | | 7 | 2 | | 7 | | | 1 | | |
| Droitwich Borough | 4,177 | | | | | | | 7 | | 4 | 1 | | | | | | 1 | | | | | | | | |
| Evesham Borough | 7,150 | | | | 4 | 5 | | 5 | 1 | 5 | 5 | 3 | 5 | | | | 6 | | | 14 | | | 1 | | |
| Kidderminster Borough | 25,000 | | | | | 1 | | 30 | | 10 | 50 | 7 | | | | | 10 | 2 | | 45 | 1 | | | | |
| King's Norton & N'thfield | 48,500 | | | | | 16 | | 151 | 5 | 106 | 38 | 6 | | | | | 27 | 2 | | 27 | | | 2 | | |
| Lye and Wollescote | 10,779 | | | | | 25 | | 34 | 1 | 4 | 4 | 1 | | | | | 37 | 3 | 13 | 20 | | | 1 | | |
| Malvern | 14,838 | | | | 151 | 104 | | | | 95 | 5 | | | | | | 10 | 1 | | 19 | | | | | |
| Oldbury | 25,000 | | | | | 68 | | 101 | 3 | | 3 | | | | | | 194 | 26 | 10 | 36 | 2 | | 1 | | |
| Redditch | 14,000 | | | | | 212 | | 9 | 13 | 2 | 13 | 2 | | | | | 39 | 3 | | 26 | 2 | | | | |
| Stourbridge | 16,522 | | | | | 12 | | 46 | | 2 | 6 | 2 | | | | | 6 | | | 10 | | | | | |
| Stourport | 5,336 | | | | | | | 18 | | 12 | | | | | | | 6 | | | 3 | | | | | |
| Totals | 187,678 | 155 | 129 | 747 | 22 | 269 | 9 | 128 | 21 | 5 | 3 | 11 | 9 | | | | 347 | 42 | 29 | 421 | 6 | | 7 | 5 | |

Rural Districts.

[illegible]

(a) Notifiable only in Evesham and Malvern Urban Districts.

32. Table VII. shows the number of Cases and Deaths and Hospital cases and Hospital deaths in the Urban and Rural Districts collectively and Administrative County during the years 1896-08 inclusive.

33. Thus it appears that the County has experienced complete immunity from this disease during 1898.

34. I referred in my last Digest to the Vaccination Act, passed in the year 1898, and therefore I do not propose to do so again, as its effects for good or otherwise are not yet apparent. I would, however, repeat that those Sanitary Authorities in Worcestershire, who have not yet provided Smallpox Hospitals, will be well advised to do so without further delay; for further remarks upon this question I would refer you to paragraph 107.

35. Table V. shows that in 1898, as in former years, Measles and Diarrhoea were the most fatal of all the Zymotic diseases, and that the Death-rate for the former amounted to 0.4, which was identical with that in England and Wales.

36. In Worcestershire, as mentioned in former years, Measles is notifiable only in the Evesham and Malvern Urban Districts.

37. The Medical Officers of the following districts report that the disease was prevalent, viz.:

| | Mortality per 1,000. |
|--|-------------------------|
| <i>Urban Districts.</i> | |
| Droitwich - - - - - | 1'1 |
| King's Norton and Northfield - - - - - | '3 |
| Lye and Wollescote - - - - - | 2'4 |
| Malvern - - - - - | 0'0 |
| Oldbury - - - - - | 2'6 |

Rural Districts.

| | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|-----|
| Droitwich | - | - | - | - | - | - | - | - | ·2 |
| Halesowen | - | - | - | - | - | - | - | - | 1·1 |
| Kidderminster | - | - | - | - | - | - | - | - | 0·0 |
| Martley | - | - | - | - | - | - | - | - | ·2 |
| Pershore | - | - | - | - | - | - | - | - | ·07 |
| Upton-on-Severn | - | - | - | - | - | - | - | - | 0·0 |
| Yardley | - | - | - | - | - | - | - | - | ·2 |

SCARLATINA.

38. Table VIII. shows the number of Cases and Deaths and Hospital cases and Hospital deaths in the Urban and Rural Districts collectively, and in the Administrative County, during the years 1896-98.

TABLE VIII.

| Districts. | No. of Cases. | | | No. of Deaths. | | | Hospital Cases. | | | Hospital Deaths. | | |
|----------------------------------|---------------|------|------|----------------|------|------|-----------------|------|------|------------------|------|------|
| | 1898 | 1897 | 1896 | 1898 | 1897 | 1896 | 1898 | 1897 | 1896 | 1898 | 1897 | 1896 |
| Urban (13) - - - | 747 | 673 | 623 | 22 | 17 | 8 | 269 | 155 | 161 | 9 | 4 | - |
| Rural (17) - - - | 1022 | 1074 | 1470 | 17 | 26 | 28 | 468 | 561 | 714 | 3 | 12 | 8 |
| Administrative County (30) - - - | 1769 | 1747 | 2093 | 39 | 43 | 36 | 737 | 716 | 875 | 12 | 16 | 8 |

39. Table V. shows that the Death-rate last year was slightly lower than in 1897, but Table VIII. that the total number of cases in the County was very much the same in both years.

40. On reference to Table VI., it will be seen that in the course of 1898, 737 patients were removed to Hospital in 23 of the 30 Districts in the County. In the previous year, however, only 18 of the 31 District Councils in Worcestershire offered similar facilities. Table IX. gives the percentage of cases admitted to Hospital in each District during 1897 and 1898.

Scarlatina.

TABLE IX.

| District. | 1897.* | | | 1898. | | |
|---------------------------|---------------------------------------|--------------------|--|---------------------------------------|-------------------------|--|
| | Total No. of cases notified. | Hospital cases. | Per- centage of Persons treated in Hospital. | Total No. of cases notified. | Hospi- tal cases. | Per- centage of Persons treated in Hospital. |
| Evesham Urban - - - | 15 | 15 | 100 | 5 | 5 | 100 |
| Evesham Rural - - - | 5 | 5 | 100 | 11 | 11 | 100 |
| Pershore Rural - - - | 15 | 15 | 100 | 137 | 134 | 97 |
| Tewkesbury Rural - - - | 5 | - | - | 4 | 4 | 100 |
| Malvern Urban - - - | 39 | 38 | 97 | 104 | 95 | 91 |
| Feckenham Rural - - - | 23 | 20 | 86 | 65 | 60 | 92 |
| King's Norton Urban - - | 312 | 284 | 91 | 151 | 106 | 70 |
| Kidderminster Urban - - | 39 | 31 | 79 | 30 | 10 | 33 |
| Yardley Rural - - - | 109 | 82 | 75 | 179 | 124 | 68 |
| Upton-on-Severn Rural - - | 65 | 36 | 55 | 74 | 39 | 52 |
| Droitwich Rural - - - | 39 | 2 | 51 | 86 | 12 | 13 |
| Droitwich Urban - - - | 25 | 12 | 48 | 7 | 4 | 57 |
| Bromsgrove North Urban - | 35 | - | - | 11 | 7 | 63 |
| Bromsgrove Urban - - - | 32 | - | - | 22 | 11 | 50 |
| Stourport Urban - - - | 1 | - | - | 18 | 12 | 66 |
| Lye & Wollescote Urban - | 54 | 23 | 42 | 34 | 4 | 10 |
| Kidderminster Rural - - | 31 | 10 | 32 | 9 | 3 | 33 |
| Halesowen Rural - - - | 322 | 92 | 28 | 157 | 29 | 18 |
| Shipston-on-Stour Rural - | 14 | 3 | 21 | 90 | 22 | 24 |
| Bromsgrove Rural - - - | 76 | 12 | 15 | 108 | 25 | 23 |
| Stourbridge Urban - - - | 84 | 2 | 2 | 46 | 2 | 4 |
| Redditch Urban - - - | 189 | - | - | 212 | 13 | 6 |
| Martley Rural - - - | 51 | - | - | 70 | 5 | 6 |

*Cases were also removed from Malvern Link District, which is now amalgamated with Malvern.

41. In 1898 it is thus apparent that in the Evesham Urban and Evesham and Tewkesbury Rural Districts, no less than 100 per cent. were removed to Hospital, whereas in Pershore District 97 per cent. of 137 cases notified, in Feckenham District 92 per cent. of the 65 cases, in Malvern 91 per cent. of 104 cases were similarly treated. On the other hand, in Redditch Urban and Martley Rural Districts only 6 per cent., and in Stourbridge Urban 4 per cent. of the Scarlatina cases were treated in Hospital.

42. As it is now well known that Isolation Hospitals are freely made use of, if well managed and equipped, such discrepancies as these should receive consideration by the District Councils and their Officers.

DIPHTHERIA.

43. Table X. shows the number of cases and deaths, and Hospital cases and Hospital deaths from Diphtheria in the Urban and Rural Districts collectively, and Administrative County, during the years 1896-98 inclusive.

TABLE X.

| Districts. | No. of Cases. | | | No. of Deaths. | | | Hospital Cases. | | | Hospital Deaths. | | |
|--------------------------------|---------------|------|------|----------------|------|------|-----------------|------|------|------------------|------|------|
| | 1898 | 1897 | 1896 | 1898 | 1897 | 1896 | 1898 | 1897 | 1896 | 1898 | 1897 | 1896 |
| Urban (13) - - | 128 | 87 | 137 | 21 | 13 | 18 | 5 | 2 | 2 | 3 | - | - |
| Rural (17) - - | 112 | 233 | 228 | 17 | 25 | 42 | 14 | 12 | - | - | 1 | - |
| Administrative County (30) - - | 240 | 320 | 365 | 38 | 38 | 60 | 19 | 14 | 2 | 3 | 1 | - |

44. Table X. shows that fewer cases were reported in 1898 than in either of the former years, and Table V. indicates that the County Death-rate is much the same in each of the 3 years, and is about half that of England and Wales.

45. The disease was not specially prevalent in any Worcestershire District in 1898.

46. Having on so many former occasions referred to the etiology of Diphtheria, it is unnecessary for me to do so now.

47. The arrangements made with the Jenner Institute of Preventive Medicine in 1894, by which immune Serum is stored at my Office, and on application, forwarded to any Medical man practising in the County, is still in operation, and the following Table XI. shows that the facilities thus afforded are freely made use of.

TABLE XI.

| | 1899 to June 30. | 1898. | 1897. | 1896. | 1895. | Total 4½ years. |
|---|---------------------|-------|-------|-------|-------|--------------------|
| No. of bottles of Serum distributed - - - | 190 | 278 | 207 | 326 | 65 | 1066 |

48. Seven Authorities in the County now pay for the Serum supplied to patients in their Districts, who are unable to do so themselves, as compared with 4 in 1897. I venture to hope that as time goes on more Authorities may follow this good example. The facilities offered by the County Council with regard to the application of bacteriological tests in connection with this disease will be referred to in paragraphs 134-138.

FEVER.

49. Table XII. shows the number of cases and deaths, and Hospital cases and Hospital deaths in the Urban and Rural Districts collectively, and Administrative County during the years 1896-98 inclusive.

TABLE XII.

| Districts. | No. of Cases. | | | No. of Deaths. | | | Hospital Cases. | | | Hospital Deaths. | | |
|----------------------------------|---------------|------|------|----------------|------|------|-----------------|------|------|------------------|------|------|
| | 1898 | 1897 | 1896 | 1898 | 1897 | 1896 | 1898 | 1897 | 1896 | 1898 | 1897 | 1896 |
| Urban (13) - - - | 347 | 101 | 93 | 42 | 20 | 20 | 29 | 4 | - | 4 | - | - |
| Rural (17) - - - | 131 | 67 | 73 | 15 | 11 | 14 | 30 | 3 | 17 | 6 | - | - |
| Administrative County (30) - - - | 478 | 168 | 166 | 57 | 31 | 34 | 59 | 7 | 17 | 10 | - | - |

50. Table V. shows that the County Death-rate from Fever in 1898 (0.16) was slightly lower than in England and Wales (0.18), but was decidedly higher than in either of two preceding years. Reference to Table XII. shows that a much larger number of cases were notified in 1898 (478) than in either 1897 (168) or 1896 (166).

51. Through Table VI. it will be seen that Fever was prevalent in the following Districts—viz. :

| | Cases. |
|--------------------------------|--------|
| King's Norton Urban - - - | 27 |
| Lye and Wollescote Urban - - - | 37 |
| Oldbury " - - - | 194 |
| Redditch " - - - | 39 |
| Halesowen Rural - - - | 91 |

52. Dr. Hollinshead says, with regard to the cases in the Kings Norton District, that although there has been an increase both in the cases notified and in the Death-rate, the matter is not very serious when compared with the size of the District (population 48,500).

53. On the 25th March, 1898, a case of Enteric Fever was imported into the District of Kings Norton, and in the following May, owing to specific contamination of a well, 13 others occurred in 3 houses.

54. Prompt closure of the well soon stamped out the disease.

55. The outbreaks of Typhoid Fever in Lye and Wollescote and Oldbury Urban Districts have been the subject of special reports I have made to you, and from which it appears that the disease is endemic in these localities; soil contamination being the chief cause.

56. It is gratifying to be able to report that the recommendations contained in my Oldbury Report (see pages 76 to 86) are being energetically pushed on by the Urban District Council.

57. My views as to the causation of this disease in Lye and Wollescote have not yet been laid before the Local Authority.

58. Of the 39 cases of Fever in Redditch, 32 were attributed to Typhoid Fever and 7 to continued Fever. Beyond stating that the disease occurred from January to October, Dr. Newton Wade makes no reference to the subject in his Annual Report; but, as mentioned in my Digest for last year, he forwarded a special report to the County Council on July 21st, 1898, and therein attributed the disease to the existence of polluted wells in the heart of the town. At the same time he urged the abolition of the prevailing midden system. Upon the receipt of this report you communicated with the Redditch Urban District Council, and it is satisfactory to gather from Dr. Wade's Annual Report for 1898 that "the excrement disposal is being rapidly improved, only some 7 privy middens now being in existence."

59. With regard to the 91 cases of Fever in the Halesowen Rural registered in the District, 5 others occurred among the 29 patients re-District, Dr. Brett Young mentions that although six deaths only were moved to Stourbridge Isolation Hospital, which is just outside it.

60. He attributes these cases to filth pollution of soil, obviously due to the existence of privy middens, and to the habit of throwing waste water and excrementitious refuse over unpaved surfaces. In fact, Dr. Young's recent experience in the Halesowen District is as much the same as my own at Oldbury and Lye and Wollescote.

DIARRHŒA.

61. Table XIII. gives the number of deaths from Diarrhœa during the years 1893 to 1898 inclusive.

TABLE XIII.

| Districts. | 1898. | 1897. | 1896. | 1895. | 1894. | 1893. |
|----------------------------|-------|-------|-------|-------|-------|-------|
| Urban (13) - - - | 102 | 96 | 49 | 48 | 30 | 89 |
| Rural (17) - - - | 69 | 72 | 32 | 56 | 27 | 122 |
| Administrative County (30) | 171 | 168 | 81 | 104 | 57 | 211 |

62. Table XIII. shows that Diarrhœa was prevalent in the years 1893, 1895, 1897, and 1898. It is evident, however (Table V.), that the resulting mortality is less in Worcestershire than in England and Wales.

63. Dr. Ballard's idea that Diarrhœa may be expected to become prevalent as soon as the temperature reaches 56°F. at 4 ft. below ground surface, has been referred to in former Digests.

INFANTILE MORTALITY.

64. Table XIV. compares the rates of Infantile Mortality in the Urban and Rural Districts collectively, and the Administrative County, with those of England and Wales for the years 1894-98 inclusive.

TABLE XIV.

| Districts | Deaths of Children under 1 year per 1,000 registered births. | | | | |
|----------------------------|--|-------|-------|-------|-------|
| | 1898. | 1897. | 1896. | 1895. | 1894. |
| Urban (13) - - - | 156 | 164 | 168 | 161 | 131 |
| Rural (17) - - - | 115 | 127 | 122 | 112 | 117 |
| Administrative County (30) | 138 | 143 | 140 | 131 | 122 |
| England and Wales - - | 161 | 156 | 148 | 161 | 143 |

65. This Table shows that the Infantile Mortality of the County was less in 1898 than in either of the two previous years, whereas in England and Wales the reverse was the case.

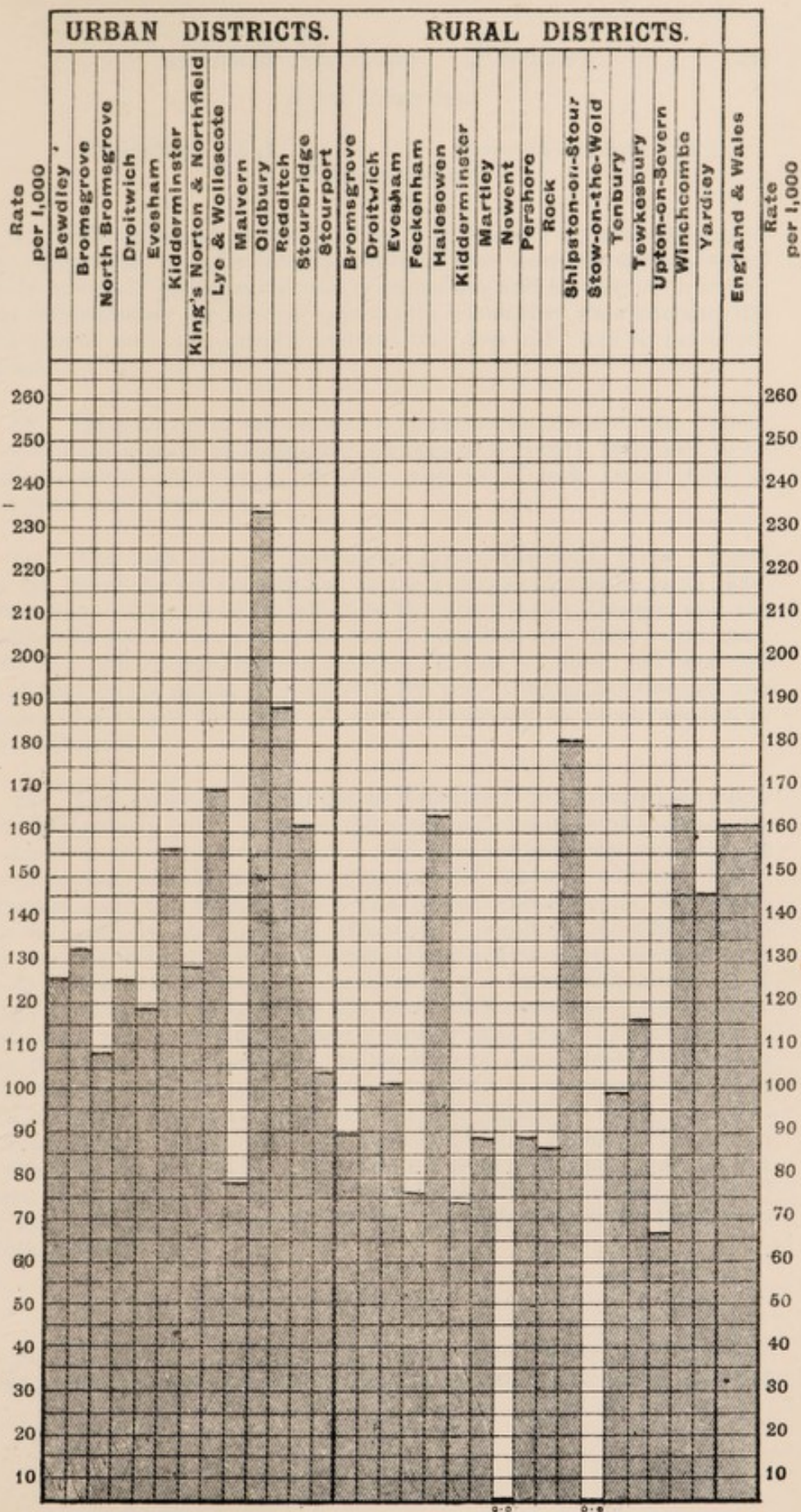
66. The Infantile Mortality Rates for 1898, of the following Worcestershire Districts, exceeded that of England and Wales (161), viz. :—

Urban Districts.

Lye and Wollescote (170).
Redditch (188).

Oldbury (233).
Stourbridge (162).

INFANT MORTALITY RATE PER 1000 BIRTHS



Halesowen (164).

Shipston-on-Stour (182).

Winchcombe (166).

67. The excessive mortality in the Lye District does not appear to be exceptional, and Dr. Darby mentions that Lectures were arranged with the view of giving instruction upon nursing and feeding of children ; but unfortunately the class of persons for whom they were intended did not attend, and consequently lectures on "first aid" had to be substituted.

68. He goes on to advise that application be made to the County Council for a grant to enable the services of a Health Missioner to be retained for this District, in the same way as is now being done at Redditch and Stourbridge.

69. The high rate of the Oldbury Urban District (233) is, I regret to say, by no means exceptional, as the average rate for the years 1885-98 is 200. The cause of Infantile Morality in this District was the subject of special inquiry by County Councillor Dr. Dixey and me ; and it is unfortunate that the Oldbury Urban Council did not see their way to take up the £60 offered by your Committee towards the salary of a Health Missioner, as one is evidently so much needed in their District.

70. The excessive mortalities in Redditch (188), Stourbridge (162), and Halesowen (164), may for the moment be considered together, inasmuch as their respective causes, and remedial measures proposed, or in operation, are identical. As regards the former, without doubt, ignorance and bad feeding take a first place ; consequently, by aid of grants made by the Technical Education Committee, and administered by you, the services of trained nurses (Health Missioners), whose duty it is to pay visits from house to house, and to give instruction in the laws of hygiene have been retained for the towns of Stourbridge since October 1st, 1897, and for Redditch since February 6th, 1899. It is of course not to be expected that as yet the teaching of these Health Missioners will have affected the high Infantile Mortality in question ; but I do not hesitate to say that I am convinced that ultimately much good will accrue, and evidently this view is shared by the Technical Education Committee, as well as by you, inasmuch as an additional grant has just been made, which will allow of a third Health Missioner being stationed at Halesowen, in compliance with the wish expressed by the Halesowen Rural District Council.

PHTHISIS.

71. The decline of Phthisis in England and Wales is unquestionable ; and the Registrar General states that he has no doubt whatever

that there has been a steady and substantial reduction from first to last since the year 1851. At the present time Tuberculosis causes some 60,000 deaths annually in England and Wales, although the decreased mortality in *adults* has been most marked.

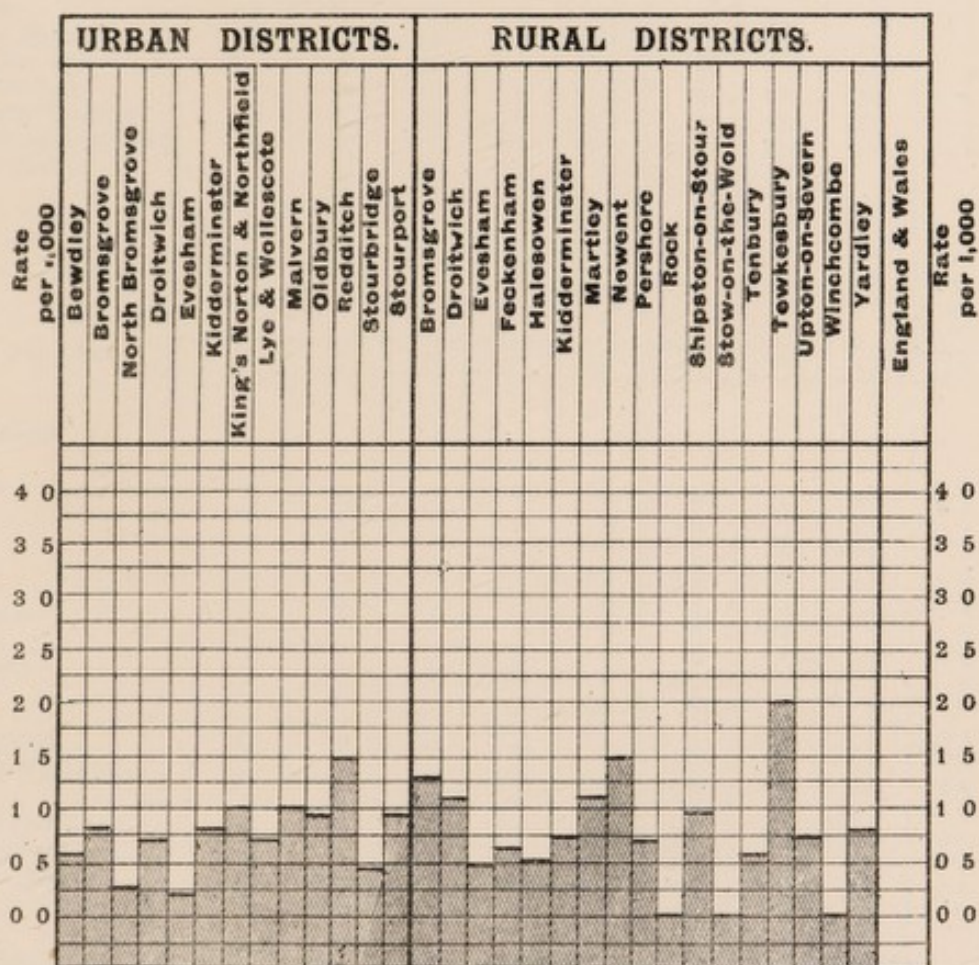
72. One form of Tuberculosis, known as "*Tabes Mesenterica*" (Consumption of the Bowels), in which the chief vehicle of the Tubercular Infection to the digestive organs is food (such as milk and meat — usually the former), causes some 7,000 deaths annually in England and Wales, besides some thousands more are due to Tubercular Meningitis, a cause of Tubercular Deaths, which Sir Richard Thorne (Chief Medical Officer of the Local Government Board) has shown to be on the increase in the case of children under 3 months of age, to be undergoing no diminution during the next 3 months, and to exhibit a substantial increase in young adult life generally.

73. As compared with other Counties, Worcestershire has an exceptionally low Death-rate from Phthisis; indeed, the rate for an extended period, stands with Staffordshire and Leicestershire as one of the Counties of England with least liability to the disease. As regards Phthisis in females, Worcestershire is the best; in this respect it is below the neighbouring Counties of Oxford and Warwick, and considerably below Shropshire.

74. I have been in communication with Sir Hugh Beevor, Bart., M.D., who has lately been carefully studying the question of the continuance of Phthisis, and he writes that he is "unable to suggest any definite point (for consideration), for it seems to (him) to carry our knowledge further, intricate and prolonged investigations are necessary."

75. The following Table shows the "Phthisis" Death-rates of the County, and of the respective Districts during the years 1890-98 inclusive.

PHTHISIS DEATH - RATE



WITNESS DEATH RATE

| DEATH RATE | WITNESS DEATH RATE |
|------------|--------------------|
| 100 | 100 |
| 90 | 90 |
| 80 | 80 |
| 70 | 70 |
| 60 | 60 |
| 50 | 50 |
| 40 | 40 |
| 30 | 30 |
| 20 | 20 |
| 10 | 10 |
| 0 | 0 |

TABLE XV.

| Districts. | Average for years 1890 to 1898. | Rate per 1,000 of Population. | | | | | | | | |
|------------------------------|--|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 1898. | 1897. | 1896. | 1895. | 1894. | 1893. | 1892. | 1891. | 1890. |
| <i>Urban.</i> | | | | | | | | | | |
| Bewdley Borough - | .8 | .6 | .6 | .6 | 1.3 | 1.0 | 1.0 | 1.0 | 2.4 | .6 |
| Bromsgrove - | 1.1 | .8 | 1.2 | 1.3 | 1.5 | .1 | 1.9 | .9 | 2.1 | .8 |
| Bromsgrove North - | .7 | .3 | .3 | .3 | 1.3 | 1.3 | 1.2 | 1.2 | .8 | 1.3 |
| Droitwich Borough - | 1.1 | .7 | 1.4 | 1.6 | .9 | .5 | 1.7 | 1.5 | .7 | .5 |
| Evesham Borough - | .7 | .2 | .6 | .5 | 1.3 | .6 | 1.1 | 1.8 | .8 | .9 |
| Kidderminster Borough - | 1.0 | .8 | 1.3 | .9 | 1.5 | .8 | 1.0 | 1.3 | 1.2 | 0.0 |
| King's Norton & Northfield - | 1.1 | 1.0 | 1.1 | 1.1 | 1.1 | 1.7 | 1.0 | 1.5 | 1.8 | 1.1 |
| Lye and Wollescote - | .7 | .7 | 1.2 | .5 | .8 | .8 | .5 | | | |
| Malvern - | 1.0 | 1.0 | .9 | .9 | 1.8 | .8 | 1.1 | .1 | .9 | .9 |
| Oldbury - | .7 | .9 | .6 | .8 | 1.2 | .6 | .6 | .8 | .7 | .8 |
| Redditch - | 1.6 | 1.5 | 1.6 | 1.4 | 1.7 | 1.6 | 1.8 | 1.6 | 1.8 | 1.4 |
| Stourbridge - | .8 | .4 | 1.0 | .9 | .7 | .8 | 1.0 | .6 | .6 | .9 |
| Stourport - | 1.1 | .9 | 1.0 | 1.1 | 1.4 | .8 | 1.9 | 1.7 | 1.4 | 1.2 |
| Urban death rate - | .9 | .7 | .9 | .8 | 1.2 | .8 | 1.1 | 1.1 | 1.2 | .8 |
| <i>Rural.</i> | | | | | | | | | | |
| Bromsgrove - | .9 | 1.3 | 1.0 | .7 | .8 | .8 | 1.0 | 2.3 | 1.3 | 0.0 |
| Droitwich - | .8 | 1.1 | .8 | .9 | .9 | .4 | .7 | 1.2 | .3 | 1.2 |
| Evesham - | .6 | .4 | .4 | .9 | .7 | .5 | .8 | 1.9 | .8 | .9 |
| Feckenham - | .7 | .6 | .6 | 1.0 | 1.7 | 1.9 | 1.2 | 1.7 | .6 | 1.2 |
| Halesowen - | .2 | .5 | .09 | .4 | .6 | .5 | .5 | .4 | .4 | .7 |
| Kidderminster - | .6 | .7 | .5 | .4 | .4 | .8 | 1.0 | .7 | .9 | .2 |
| Martley - | .7 | 1.2 | .3 | .7 | .6 | .6 | .8 | .9 | 1.3 | 1.3 |
| Newent (part) - | .7 | 1.5 | 1.5 | 0.0 | .7 | 0.0 | .7 | .7 | .7 | 0.0 |
| Pershore - | .7 | .7 | .7 | .9 | 1.5 | .6 | .3 | .9 | .6 | 1.7 |
| Rock - | .1 | 0.0 | .4 | 0.0 | 0.0 | .7 | 0.0 | .4 | 1.3 | 1.8 |
| Shipston-on-Stour - | .8 | .9 | .8 | .5 | .5 | 1.0 | 1.2 | .4 | 1.0 | .8 |
| Stow-on-the-Wold (part) - | 2.4 | 0.0 | 0.0 | 8.9 | 0.0 | 5.9 | 0.0 | 0.0 | 2.9 | 2.8 |
| Tenbury - | .6 | .6 | 0.0 | .8 | .8 | .7 | .8 | 1.2 | .6 | 1.2 |
| Fewkesbury (part) - | 1.4 | 2.0 | .8 | 1.2 | 2.4 | 1.2 | 1.2 | 2.0 | 0.0 | 0.0 |
| Upton-on-Severn - | .9 | .7 | .6 | 1.1 | 1.5 | 1.3 | .7 | 1.9 | .8 | 1.5 |
| Winchcombe (part) - | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.9 | 0.0 | 0.0 | 0.0 |
| Yardley - | .8 | .8 | .8 | .6 | .8 | 1.1 | .8 | .8 | .5 | 0.0 |
| Rural death rate - | .8 | .8 | .5 | 1.1 | .7 | 1.0 | 1.1 | 1.0 | .8 | .9 |
| County death rate - | .9 | .7 | .7 | 1.0 | .9 | .9 | 1.1 | 1.0 | 1.0 | .9 |

76. Table XV. shows that the average Phthisis Death-rates for the past 9 years are much the same in the Urban and Rural (0.8) Districts collectively as in the County as a whole (0.9).

77. I discussed the causes and methods of distribution of this disease in my Report for 1897, and published the recommendations of the Royal Commission in *extenso*; therefore it is unnecessary to recapitulate what I then said.

78. A special Committee, composed of members of the County Council and of the Worcestershire Chamber of Agriculture, of which Sir H. F. Vernon, Bart., was Chairman, reported (25th February, 1899), "as to whether it is desirable that additional powers should be given to Local Authorities to enable them more effectually to control the danger to man, through the use, as food, of the meat and milk of Tuberculous animals"; and this Committee, "taking the Report of the Royal Commission on Tuberculosis, presented to Parliament in the year 1898," as "the basis for discussion," came to the following conclusions:—

- i. That it is desirable that additional powers should be given to Local Authorities to enable them more effectually to control the danger to man through the use of the meat and milk of Tuberculous animals; but that any additional powers should be *uniform* throughout *England* and *Wales*.
- ii. That some attempt should be made to eliminate the disease from amongst cattle, and especially from amongst dairy cows.

79. The Committee considered that the first of these objects may be attained—

- (a) By giving power to Local Authorities to organize a system of rigorous inspection of carcasses, both home slaughtered and imported;
- (b) By constant inspection by Veterinary Surgeons and Inspectors of Nuisances, both of cows and cowsheds from which milk is sold;
- (c) By making it compulsory upon owners of cows affected with disease of the udder, whose milk is offered for sale, to notify the same to the Local Authority.

80. The second object they deemed might be attained to a great extent—

- (a) By making the adoption of the Dairies, Cowsheds and Milkshops Order compulsory upon all Local Authorities, provided it is amended so as to include Tuberculosis of the udder;

- (b) By enforcing regulations as to cubic space, lighting, ventilation and drainage in all cowsheds from which milk is sold ;
- (c) by the use of the Tuberculin Test under the conditions recommended in the Royal Commissioners' Report.
- (d) By taking proper steps to test for Tuberculosis, any substances sent to the County Analyst for that purpose.

81. In conclusion, the Committee advised that the County Council should petition the Local Government Board, and also the Board of Agriculture, to take such steps as they may deem best to give effect to the foregoing suggestions, and also apply to the Home Secretary for a License to make the necessary tests by inoculation under the direction of the County Analyst.

82. This Report was adopted by the County Council on 13th March, 1899.

83. Bearing upon paragraph 80(a) in the above conclusions, I would say that on 11th March, 1899, the Local Government Board issued a circular letter to the Local Authorities in England and Wales, in which *inter alia* it was mentioned that the Board "have issued an Order to amend Article XV. of the "Order of 1885 by providing that for the purposes of paragraph "(a) and (b) of the Article, reference to disease shall include in the case "of a cow, such disease of the udder as shall be certified by a Veterinary "Surgeon to be Tuberculosis. The Board think it would be competent "for the Council (District) to employ and pay a Veterinary Surgeon, "with a view of obtaining a certificate under the Article as amended, "or to appoint him an Officer for this purpose if they think fit to do "so."

84. With this circular, the Local Government Board also sent a Model Code of Regulations with respect to Dairies and Cowsheds, but hitherto—I believe from lack of power—the Local Government Board have not made such Regulations "compulsory."

85. I mentioned in my "Digest" for 1897 that "of the 31 Districts "in the County, 18 had adopted Regulations, 10 had not done so, and "of 3 I have no information."

86. Several Districts in Worcestershire have substituted the excellent "Model Code" for the Regulations previously in existence ; and at the present time the Bromsgrove, Bromsgrove North, and Stourport Urban, and Rock, Stow - on - the - Wold, Tenbury, Tewkesbury, and Winchcombe Rural District Councils are the only ones

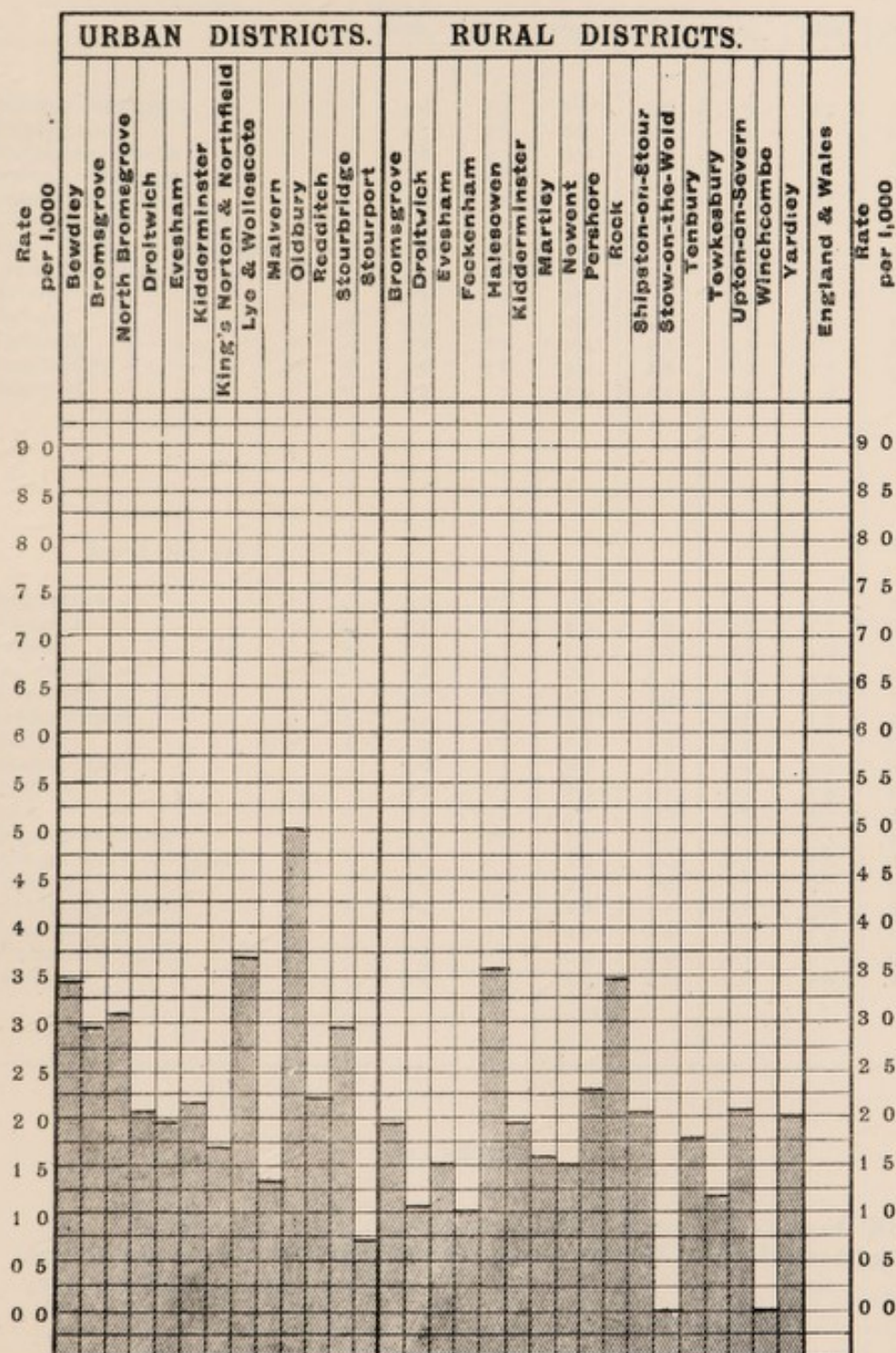
in the County who have no Dairy bye-laws. The Stourport Urban and Tewkesbury Rural Councils are, however, considering the adoption of such regulations. Thus it would seem that of 30 District Councils in the County all but 8 have Dairy and Cowshed Regulations, and I suggest you urge the latter to adopt the Model Code of the Local Government Board. In those Districts where bye-laws are in operation, it is to be hoped they will be duly enforced.

87. By your direction, leaflets respecting the prevention of Phthisis, and as to Tuberculosis in Cattle, approved by the Executive Committee, have been widely distributed throughout the County; District Councils, Sanitary Officials, Veterinary Surgeons, Dairymen, Cow-keepers, and children at Schools being among the recipients.

RESPIRATORY DISEASES.

88. Table XVI gives the Death-Rates for each District in the County during the years 1893-98 inclusive, and the average rates for that period.

RESPIRATORY DEATH - RATE



RESISTANCE RATIO



TABLE XVI.

| Urban Districts. | Averages for years 1893 to 1898. | Rate per 1,000. of Population. | | | | | |
|----------------------------------|---|--------------------------------|-------|-------|-------|-------|-------|
| | | 1898. | 1897. | 1896. | 1895. | 1894. | 1893. |
| Bewdley Borough - - - | 3.6 | 3.4 | 2.0 | 4.1 | 5.5 | 2.7 | 4.1 |
| Bromsgrove - - - | 2.5 | 2.8 | 2.8 | 2.0 | 2.5 | 1.7 | 3.5 |
| Bromsgrove North - - - | 2.8 | 3.1 | 2.2 | 3.0 | 2.3 | 3.4 | 3.2 |
| Droitwich Borough - - - | 2.6 | 2.1 | .9 | 3.0 | 3.6 | 4.2 | 2.2 |
| Evesham Borough - - - | 1.9 | 1.8 | .9 | 1.3 | 3.4 | 2.5 | 1.5 |
| Kidderminster Borough - - - | 2.6 | 2.2 | 1.6 | 2.9 | 3.4 | 2.7 | 3.1 |
| King's Norton & Northfield - - - | 2.3 | 1.7 | 2.2 | 2.1 | 2.1 | 2.8 | 3.4 |
| Lye and Wollescote - - - | 3.5 | 3.7 | 3.7 | 3.6 | 2.4 | 2.1 | 2.3 |
| Malvern - - - | 1.7 | 1.3 | 1.5 | .7 | 2.0 | 3.0 | 1.9 |
| Oldbury - - - | 4.6 | 5.0 | 4.0 | 5.6 | 4.2 | 3.6 | 5.6 |
| Redditch - - - | 3.1 | 2.2 | 3.4 | 3.1 | 4.7 | 2.0 | 3.7 |
| Stourbridge - - - | 2.9 | 2.9 | 3.0 | 2.8 | 2.0 | 2.2 | 4.9 |
| Stourport - - - | 1.1 | .7 | 1.2 | 2.3 | 1.4 | .8 | .2 |
| Rural Districts. | | | | | | | |
| Bromsgrove - - - | 1.7 | 1.9 | 1.3 | 2.1 | 1.8 | 1.8 | 1.8 |
| Droitwich - - - | 1.7 | 1.1 | 2.0 | 1.7 | 2.7 | 1.3 | 1.8 |
| Evesham - - - | 1.7 | 1.5 | 1.1 | 1.6 | 2.8 | 1.6 | 1.6 |
| Feckenham - - - | 1.8 | 1.0 | 2.0 | 1.5 | 1.0 | 4.4 | 1.3 |
| Halesowen - - - | 3.2 | 3.6 | 3.5 | 3.9 | 3.4 | 2.7 | 2.5 |
| Kidderminster - - - | 2.1 | 1.9 | 2.3 | 2.1 | 2.6 | 1.8 | 1.9 |
| Martley - - - | 1.9 | 1.6 | 2.2 | 1.9 | 1.9 | 2.4 | 1.5 |
| Newent (part) - - - | 2.6 | 1.5 | 3.0 | 1.5 | 3.0 | 3.0 | 3.8 |
| Pershore - - - | 2.2 | 2.3 | 2.0 | 2.1 | 3.2 | 1.9 | 2.2 |
| Rock - - - | 2.7 | 3.4 | 4.7 | 0.0 | 2.6 | 3.1 | 2.6 |
| Shipston-on-Stour - - - | 1.9 | 2.0 | 1.1 | 2.5 | 1.9 | 2.3 | 2.1 |
| Stow-on-the-Wold (part) - - - | .4 | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tenbury - - - | 2.9 | 1.8 | 2.2 | 2.4 | 3.7 | 4.5 | 3.1 |
| Tewkesbury (part) - - - | 1.9 | 1.2 | 1.6 | 1.2 | 1.6 | 3.6 | 2.4 |
| Upton-on-Severn - - - | 2.3 | 2.1 | 2.8 | 2.3 | 3.0 | 1.2 | 2.4 |
| Winchcombe (part) - - - | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 7.8 | 0.0 |
| Yardley - - - | 2.2 | 2.0 | 1.9 | 2.7 | 2.6 | 2.0 | 2.3 |

CANCER.

89. Table XVII. gives the Cancer Death-Rates per 10,000 of the population in the County for the years 1893-98, and the average rates for that period.

TABLE XVII.

| Urban Districts. | Average for years 1893 to 1898 per 10,000 of popula- tion. | Rate per 10,000. | | | | | |
|------------------------------|--|------------------|-------|-------|-------|-------|-------|
| | | 1898. | 1897. | 1896. | 1895. | 1894. | 1893. |
| Bewdley Borough - - - - | 6.0 | 10.0 | 0.0 | 6.9 | 6.0 | 3.4 | 10.0 |
| Bromsgrove - - - - - | 6.1 | 9.0 | 6.0 | 7.0 | 6.0 | 9.0 | 0.0 |
| Bromsgrove North - - - - | 6.6 | 1.8 | 7.0 | 7.0 | 9.0 | 7.5 | 7.5 |
| Droitwich Borough - - - - | 7.6 | 9.0 | 4.0 | 11.0 | 4.5 | 10.0 | 7.5 |
| Evesham - - - - - | 4.2 | 11.0 | 5.0 | 5.0 | 1.6 | 1.7 | 1.0 |
| Kidderminster - - - - - | 3.0 | 0.0 | 4.0 | 0.0 | 0.0 | 7.0 | 7.0 |
| King's Norton & Northfield - | 5.7 | 5.0 | 4.0 | 4.0 | 7.0 | 7.4 | 7.0 |
| Lye and Wollescote - - - - | 2.2 | 3.0 | 4.8 | .9 | .9 | 1.0 | .8 |
| Malvern - - - - - | 8.5 | 13.0 | 9.0 | 3.0 | 12.0 | 8.0 | 6.0 |
| Oldbury - - - - - | 1.8 | 0.3 | 1.0 | 3.0 | 3.7 | 3.0 | 0.0 |
| Redditch - - - - - | 3.5 | 4.0 | .8 | 3.0 | 6.7 | 4.0 | 3.0 |
| Stourbridge - - - - - | 2.8 | 0.6 | 4.0 | 7.0 | .6 | 3.0 | 2.0 |
| Stourport - - - - - | 6.0 | 7.0 | 7.0 | 8.3 | 2.8 | 8.4 | 2.8 |
| Rural Districts. | | | | | | | |
| Bromsgrove - - - - - | 3.9 | 7.0 | 2.0 | 4.0 | 6.0 | 3.0 | 1.7 |
| Droitwich - - - - - | 6.2 | 7.0 | 9.0 | 7.0 | 9.0 | 5.6 | 0.0 |
| Evesham - - - - - | 3.0 | 5.0 | 5.0 | 1.4 | 4.0 | 2.8 | 0.0 |
| Feckenham - - - - - | 3.2 | 3.0 | 1.7 | 8.0 | 1.7 | 3.4 | 1.7 |
| Halesowen - - - - - | 3.7 | 4.0 | 5.0 | 4.0 | 3.0 | 4.0 | 2.4 |
| Kidderminster - - - - - | 4.7 | 7.0 | 4.0 | 3.8 | 6.2 | 3.9 | 3.8 |
| Martley - - - - - | 5.5 | 4.6 | 8.0 | 7.6 | 4.6 | 6.6 | 2.1 |
| Newent (part) - - - - - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Pershore - - - - - | 7.9 | 12.0 | 10.0 | 9.0 | 8.0 | 6.0 | 2.8 |
| Rock - - - - - | 2.1 | 0.0 | 13.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Shipston-on-Stour - - - - - | 5.0 | 9.0 | 11.0 | 6.0 | 4.0 | 0.0 | 0.0 |
| Stow-on-the-Wold (part) - - | 10.8 | 59.0 | 5.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tenbury - - - - - | 1.0 | 0.0 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Tewkesbury (part) - - - - | 4.0 | 0.0 | 8.0 | 0.0 | 12.0 | 4.0 | 0.0 |
| Upton-on-Severn - - - - - | 7.7 | 7.3 | 13.0 | 6.0 | 6.0 | 9.0 | 5.0 |
| Winchcombe (part) - - - - | 1.3 | 0.0 | 7.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| Yardley - - - - - | 4.4 | 3.0 | 8.0 | 6.0 | 0.0 | 0.0 | 9.6 |

GENERAL VITAL STATISTICS OF YEARS 1889-98
INCLUSIVE.

90. Table XVIII. gives the general Vital Statistics of each of the years 1889-98 for the Urban and Rural Districts collectively, and Administrative County.

CANCER DEATH RATE PER 10,000 OF THE POPULATION

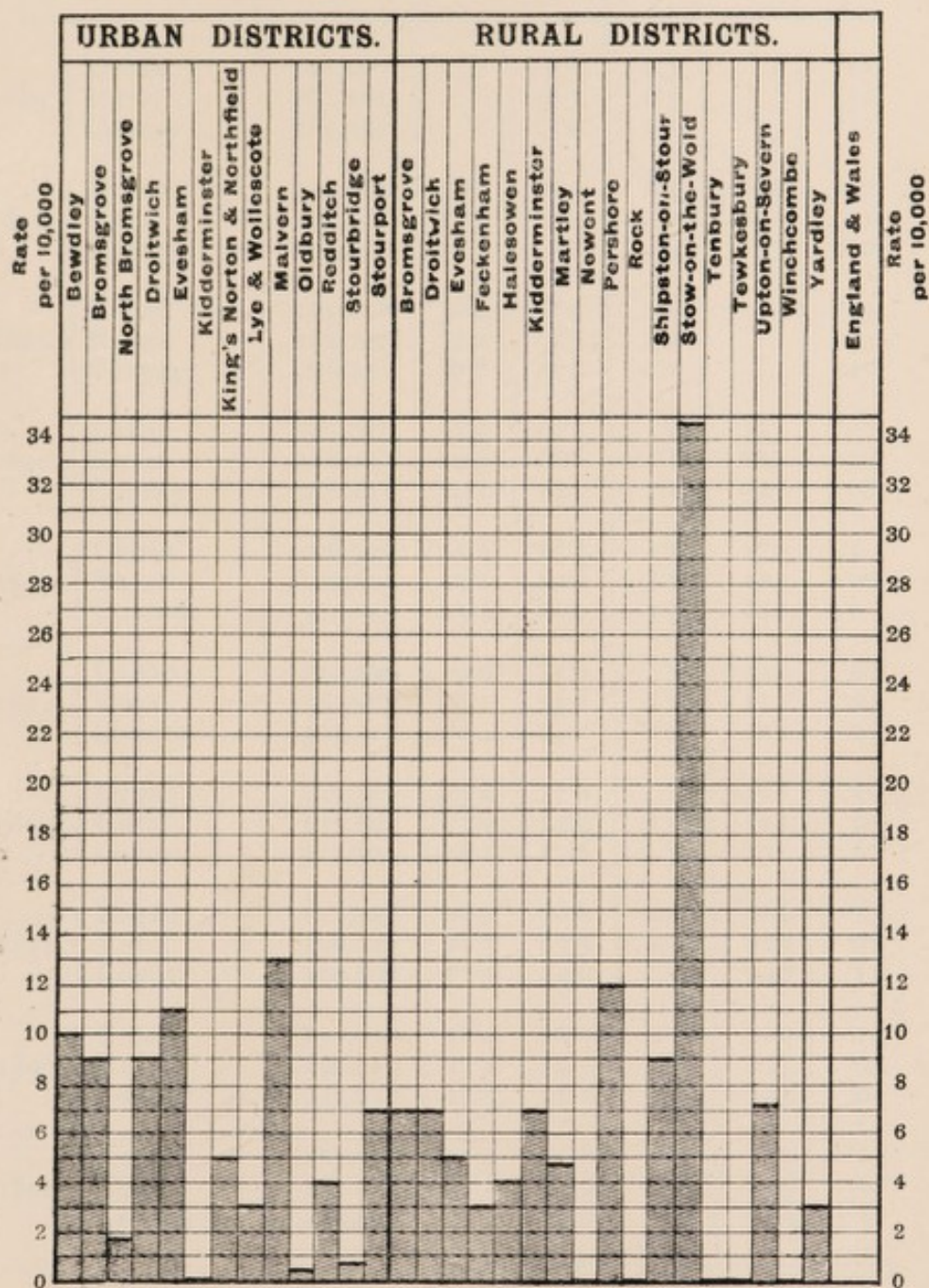


TABLE XVIII.

| | | Population (estimated). | Birth rate. | Death rate. | Zymotic death rate. | Infant mortal- ity. | Fever death rate. |
|-------|------------|----------------------------|----------------|----------------|---------------------------|---------------------------|-------------------------|
| 1889. | { Urban - | 121,067 | * | 17·8 | 2·3 | * | ·11 |
| | { Rural - | 163,285 | * | 16·3 | 1·3 | * | ·17 |
| | { County - | 284,352 | * | 17·0 | 1·7 | * | ·15 |
| 1890. | { Urban - | 121,104 | 28·8 | 17·1 | 1·3 | 164 | ·09 |
| | { Rural - | 173,985 | 27·5 | 18·1 | ·6 | 111 | ·11 |
| | { County - | 295,089 | 28·1 | 17·6 | ·9 | 137 | ·10 |
| 1891. | { Urban - | 105,018 | 32·4 | 18·5 | 1·4 | 149 | ·13 |
| | { Rural - | 191,223 | 29·2 | 16·5 | 1·0 | * | ·13 |
| | { County - | 296,241 | 30·8 | 17·2 | 1·2 | * | ·13 |
| 1892. | { Urban - | 105,018 | 31·5 | 19·8 | 1·4 | 177 | ·07 |
| | { Rural - | 191,223 | 29·3 | 17·8 | ·8 | 125 | ·09 |
| | { County - | 296,241 | 30·1 | 18·1 | 1·1 | 145 | ·08 |
| 1893. | { Urban - | 106,739 | 31·4 | 18·3 | 1·9 | 172 | ·1 |
| | { Rural - | 194,820 | 29·1 | 14·9 | 1·2 | 122 | ·09 |
| | { County - | 301,559 | 29·9 | 16·1 | 1·5 | 140 | ·1 |
| 1894. | { Urban - | 108,406 | 29·0 | 15·0 | ·9 | 131 | ·08 |
| | { Rural - | 194,907 | 28·1 | 13·8 | 1·0 | 117 | ·04 |
| | { County - | 303,313 | 28·4 | 14·2 | 1·0 | 122 | ·05 |
| 1895. | { Urban - | 119,359 | 29·2 | 17·6 | ·8 | 161 | ·10 |
| | { Rural - | 193,841 | 27·4 | 14·4 | 1·0 | 112 | ·05 |
| | { County - | 313,200 | 28·1 | 15·6 | ·9 | 131 | ·07 |
| 1896. | { Urban - | 121,248 | 28·1 | 16·6 | 1·6 | 168 | ·15 |
| | { Rural - | 199,646 | 26·3 | 13·3 | 1·2 | 122 | ·07 |
| | { County - | 320,894 | 27·3 | 14·6 | 1·4 | 140 | ·11 |
| 1897. | { Urban - | 137,010 | 28·4 | 16·0 | 1·8 | 164 | ·14 |
| | { Rural - | 196,610 | 27·2 | 14·5 | 1·0 | 127 | ·05 |
| | { County - | 333,620 | 27·7 | 15·1 | 1·3 | 143 | ·09 |
| 1898. | { Urban - | 187,678 | 28·4 | 15·8 | 1·9 | 156 | ·2 |
| | { Rural - | 157,254 | 27·2 | 13·9 | 1·2 | 115 | ·09 |
| | { County - | 344,932 | 27·9 | 15·0 | 1·6 | 138 | ·16 |

*Rates not obtainable.

91. I have condensed the above in Table XIX., in order to show the average Death-rates of the Administrative County during the two quinquennial periods, 1889-93 inclusive, and 1894-98 inclusive.

TABLE XIX.
ADMINISTRATIVE COUNTY.

| Quinquennial Periods. | Average. | | | |
|-----------------------|---------------------|---------------------|----------------------|-------------|
| | General Death-rate. | Zymotic Death-rate. | Infantile Mortality. | Fever-rate. |
| 1889-93 | 17·2 | 1·28 | 139 | 0·11 |
| 1894-98 | 14·9 | 1·24 | 134 | 0·09 |

92. As it is well known that Mortality Statistics for annual periods may be misleading, I have, for sake of comparison, divided the Vital Statistics of the Administrative County for the 10 years, into two quinquennial periods—viz., 1889-93 and 1894-98, and in doing so would remind you that such statistics were not obtainable prior to my appointment, as the Registrar-General's Returns do not apply to areas co-terminous with those administered by County Councils. Reference to Table XVIII. shows that there has been a gradual decline in the general Death-rate during the past 10 years. This is particularly obvious when the rates for the two quinquennial periods referred to in the Table XIX. are compared.

93. Table XIX. also shows that the average Zymotic rate, "Fever" rate and Infantile Mortality have declined during the same period, although to lesser extent.

94. Taking the corresponding average Zymotic-rate Death-rates for the same periods, I find that the average rate in the Urban Districts collectively declined from 1·66 for 1889-93 to 1·44 for 1894-98; whereas in the Rural Districts collectively the corresponding rates increased from 0·98 to 1·24.

95. Thus it would seem that preventable disease, in spite of greater aggregation of population, has been more thoroughly grappled with in Urban than in Rural Districts.

96. Taken as a whole, the Statistics alluded to in Table XIX. seem to indicate that success has attended the efforts of the Local Authorities in Worcestershire.

NOTIFICATION OF DISEASE.

97. The Notification Act being in force in each District in Worcestershire, the Returns of Infectious Diseases for 1898, reported in Table VI., are complete.

98. The District Medical Officers courteously continue to supply me with *weekly* returns of cases occurring in their Districts, and in return I am able to issue every Tuesday a tabular statement of all the infectious diseases in the County. This arrangement was commenced in 1890. I find in some Counties these returns are only issued *quarterly*; but I venture to think that if they are to be of more than statistical value, the returns should be sent out every 7 days, otherwise Medical Officers would not be warned of the approach of infectious disease through Districts adjacent to their own.

ISOLATION HOSPITALS.

99. The Hospital accommodation of the County differs very slightly from that of last year, save that in Newent and Winchcombe, some means of isolation have been provided; and arrangements have been made by which Small-Pox patients from Oldbury are to be treated at Smethwick (Staffordshire).

The present position is as follows:—

Districts provided with permanent Hospitals.

Evesham and King's Norton Urban, and Evesham, Feckenham, Tewkesbury, and Yardley Rural Districts.

100. Dr. Hollinshead states that before long the King's Norton Hospital will have to be extended, and advises that adjacent land should be purchased.

101. Dr. Wilson reports improvements at the Yardley Hospital; but says the time has arrived when the question of the extension of the Hospital site and the erection of at least another block must receive attention. He also advises that the Birmingham Corporation be asked to take Yardley Small-Pox cases.

Districts provided with Iron or with Wood and Iron Buildings.

Kidderminster and Malvern Urban and Newent Rural Districts.

Mr. Corbet says of the Kidderminster Hospital, "I am still dissatisfied with the Administrative accommodation provided at the Hospital, and steps for its improvement are urgently needed."

Districts provided with Hospital Tents, pending the erection of permanent Buildings.

Malvern, Bromsgrove, Bromsgrove North, Droitwich and Redditch Urban, and Bromsgrove, Droitwich and Pershore Rural Districts.

Districts having Isolation Cottages.

Oldbury Urban, and Upton-on-Severn, Shipston - on - Stour, and Winchcombe Rural Districts.

The accommodation at the three first-named places is insufficient, and the question is underconsideration in each District.

District having Isolation Wards at the Workhouse.

Tenbury Rural District.

Districts for which permanent Hospitals are about to be provided by "Orders" made under the Isolation Hospitals Act 1893.

| | |
|------------------------|-----------------------------|
| A. Bromsgrove Urban | Bromsgrove, Droitwich, and |
| " North " | Redditch Hospital (County |
| Droitwich " | of Worcester) Order, 1896. |
| Redditch " | |
| Bromsgrove Rural | |
| Droitwich " | |
| B. Malvern Urban | Malvern Hospital (County of |
| Malvern Link " | Worcester) Order, 1895. |
| C. Stourbridge Urban | Stourbridge and Halesowen |
| Lye & Wollescote Urban | Hospital (County of Wor- |
| Halesowen Rural | cester) Order, 1896. |

102. The establishment of these Hospitals has made slow progress: loans for building those, marked A and C in the above list have been approved by the County Council, but the requisite "Inquiries" of the Local Government Board have not yet been held, although they are daily expected.*

103. With reference to the Malvern Hospital, all is now in order, and the work will be proceeded with at once.

Districts for which a Hospital is about to be provided under a "Provisional Order" of the Local Government Board.

Pershore and Upton-on-Severn Rural Districts.

* The "Inquiry" as to A was held August 10th, 1899
 " " " C " " " 11th "

104. Application having been made for a loan of £8,500 to carry out this work, one of the Local Government Board Inspectors held the necessary local inquiry on February 14th, 1899. Although 5 months has elapsed since then, no decision has so far as I know yet been given by the Board.

District Councils who have arranged for the transference of patients to Hospitals in adjacent Districts.

Stourport Urban and Kidderminster and Martley Rural.

105. The Stourport Urban and Kidderminster Rural authorities have made arrangements by which cases from their Districts may be sent to the Kidderminster Borough Hospital; and the Martley Council send their cases either to Kidderminster or Worcester, or occasionally to Malvern.

106. The numbers of patients removed during 1898 to the various Hospitals in the County from the respective Districts are given in Table VI. Table IX. shows the percentage of Scarlatina cases so treated.

107. I am inclined to think that many of the Councils in the County are but ill-prepared to isolate promptly any cases of Small-Pox which may arise in their Districts; consequently I would ask for your instructions as to whether or not, I should present a report on this question?

DISINFECTION.

108. The only efficient steam disinfectors in the Administrative County are to be met with at Evesham, King's Norton, Oldbury, and Yardley. This undesirable state of things must undoubtedly continue until the various contemplated Hospitals are provided. The Feckenham District have arranged with the Stratford-on-Avon Joint Hospital Board to send infected things to Stratford for disinfection, but as this plan necessitates the conveyance of goods distances of from 10 to 20 miles, it is not surprising that it has not been made use of. The Pershore and Malvern Authorities frequently send articles to Evesham and Worcester (City and County) respectively, for disinfection, pending the establishment of disinfectors at their contemplated Hospitals.

Sanitary Work.

DRAINAGE, WATER SUPPLY, &c., &c.

109. Detailed statements of the sanitary work carried on in each District during the year 1898 are to be found in the summaries of the respective Annual Reports of Medical Officers of Health and Sanitary Inspectors, given at pages 47 et seq :

110. On reference to these it will be noticed that much work has been successfully carried through. On the other hand, you will see that several greatly-needed sanitary improvements, long under consideration, have not yet been dealt with, and to these I ask you to give further consideration, with the view of urging the responsible Local Authorities to deal with them without further delay.

EXCREMENT DISPOSAL.

111. From year to year I have given special prominence in my Digest to the injurious effect of allowing insanitary privy middens to continue in populous localities and especially in *unpaved* yards.

112. The serious outbreaks of Typhoid Fever at Oldbury, Lye and Wollescote, and Halesowen emphasize that opinion. It is gratifying to be able to record that several Urban Authorities in the County are using their best endeavours to get rid of this insanitary method of excrement disposal, but even yet I fear the subject does not receive the full attention it deserves. I therefore suggest that the Councils in whose Districts their Medical Officers of Health report prevalence of midden-closets, be again asked to use their endeavours to substitute efficient w.c.'s for such abominations and to frame byelaws with respect to "the paving of yards and open spaces in connection with dwelling-houses." (Public Health Acts Amendment Act 1890 s.23) .

DAIRIES, COWSHEDS, AND MILKSHOPS.

113. Considerable attention seems to have been given to this subject during the year, as the public generally are taking much more interest in the prevention of Tuberculosis than they used to do.

114. If you will refer to paragraph 86 you will learn the names of the 8 Authorities who have hitherto failed to adopt regulations with regard to dairies and cowsheds, and the action I suggest you should take in the matter.

115. Recent inspection of certain Districts in the County convince me that there is urgent necessity for special attention to be given to

the cowsheds; and it is greatly to be hoped that those Local Authorities who have armed themselves with bye-laws, will give instruction to their Officers to rigidly enforce them. I hope, too, the suggestion of the Local Government Board, as to the appointment of Veterinary Inspectors, alluded to in paragraph 83, will be generally acted upon in Worcestershire.

RIVER POLLUTION.

RIVER SEVERN.

116. Once more I would call your attention to the fact that the towns of Stourport, Bewdley, Upton-on-Severn, and the villages of Kempsey, Wribbenhall, and Arley continue to pour their sewage into the river without any attempt at purification. This question is under consideration at Bewdley, Wribbenhall, Stourport, and Kempsey, but nothing has as yet been decided.

117. The City of Worcester, which is the greatest offender as regards pollution of the Severn, so far as this County is concerned, still discharges unpurified sewage into the river.

RIVER REA.

118. The polluted state of the River Rea is very much the same as it was a year ago, and Dr. Hollinshead, Medical Officer for the Kings' Norton Urban District, says that in consequence of a communication from the County Council of Staffordshire and the City of Birmingham, he made a special inspection of the stream in conjunction with the local Engineer. The inspection of the River Rea was made by Officials of the Staffordshire County Council and the Birmingham Corporation, as they were instructed to prepare a report upon the pollution of the River Tame, of which the Rea is a tributary.

119. These two Authorities have also sent you a detailed statement of the pollutions their Officials detected in the Rea, and with the views expressed therein I concur, as I have previously called attention to them.

120. The King's Norton Sewage works at Lifford, which have only been established a few years, are certainly unsatisfactory, and therefore it is a source of congratulation that a provisional agreement has been entered into between the King's Norton Urban District Council and the Tame and Rea Main Drainage Board, with the view of sending the whole of the sewage from the King's Norton District to the Board's outfall works at Saltley.

121. Pending the settlement of the terms upon which the sewage of the King's Norton District is to be disposed of, the Local Government Board have consented to allow the issue of the "Provisional Order" to stand over.

122. You will no doubt recollect that by your direction I attended at the Local Government Board, in support of the application of the King's Norton Urban District Council, for the "Provisional Order" in question.

RIVER COLE.

123. The pollution of the River Cole, near to Yardley, referred to last year, has not been the subject of further complaint.

124. You will recollect that as the result of a Conference between representatives of the Worcestershire County Council and the Birmingham Corporation, the Corporation wrote the Council that they would substitute brickwork for the movable woodwork placed at the junction of the storm overflow with the sewer, and as the Tame and Rea Drainage Board had recently purchased some 1,200 additional acres of land, and sewage works were in course of construction, the overflow of sewage into the River Cole in future would be considerably reduced.

RIVER STOUR.

125. The pollution of the River Stour, which forms a boundary between Worcestershire and Staffordshire, is somewhat less in evidence than it was, inasmuch as the sewerage schemes for Halesowen, Hasbury, Cradley, and Lye and Wollescote have been carried out.

126. The house-drains at Lye and Wollescote are not, however, being connected with the sewers as rapidly as they should be, and pollutions connected with Staffordshire are still in existence. Furthermore, the river is contaminated by "acid waste" from numerous galvanising works, which stand on either bank of the Stour; but I should add that a Sub-Committee, consisting of representatives of the County Council, District Councils, and Manufacturers interested, have, at the instigation of the County Council, held numerous meetings, with the object of determining how far it is practicable to treat such refuse.

127. As yet this Committee has not presented their final report; but when they do so, I think it will be found that it is quite practicable to efficiently deal with the acid waste without injury to sewers, streams, or the trades of the locality.

128. The Staffordshire County Council have been asked to appoint delegates to meet representatives of this special Committee, in order that similar action may be taken on both sides of the Stour.

RIVER SALWARPE.

129. During the year my attention was called to the polluted state of the Salwarpe, said to be caused by the Droitwich Sewage outfall works; and on inquiry I found that the sewage farm was not as well managed as it ought to be.

130. Having conferred with representatives of the Droitwich Corporation on the subject, I have every reason to believe that steps will be taken for carrying out the requisite improvements.

VANS AND TENTS.

131. The Vans and Tents are still a nuisance on Hartlebury Common. The Medical Officer for the Droitwich Rural District (Dr. Swete) says, "nothing further has been done to clear Hartlebury Common from this nuisance; and 10 to 15 tents are generally found on the Common."

SPECIAL REPORTS.

132. As required by Article 18 (16) of the Orders of the Local Government Board, relating to the duties of Medical Officers of Health, 74 Special Reports were forwarded to the County Council during the year 1898. 22 of these referred to the closing of Schools on account of Scarlatina, and 45 on account of Measles.

133. The other Special Reports sent in had reference to outbreaks of Typhoid Fever at Oldbury, Lye and Wollescote, and Redditch, to defects in Droitwich Borough sewerage, to bad drainage at Somerley Avenue (Kidderminster Foreign), to Anthrax in Kidderminster Rural District, and to defective water supply at Pinvin in the Pershore Rural District.

COUNTY LABORATORY.

134. The services of Mr. Duncan, F.I.C., having been wholly retained as County Analyst and Bacteriologist, the Laboratory, which was so completely fitted up at the Shire Hall, Worcester, by the Standing Joint Committee, was opened on October 1st, 1898. Since then a larger number of samples of food and drugs and feeding stuffs have

been reported upon than was formerly the case. In addition to which, the Local Authorities in the County have readily availed themselves of the facilities offered, with regard to chemical and bacteriological analyses of water.

135. Very many bacteriological investigations have been made, with the view of deciding, whether or not, specimens submitted, respectively contained the specific organisms of Tuberculosis, Typhoid Fever, Anthrax, or Diphtheria.

136. In connection with such bacteriological research, the Home Secretary has granted the requisite licenses for making tests by inoculation, and suitable buildings to enable this to be done, have been rented.

137. So rapidly has Mr. Duncan's work increased that he has been obliged to retain the help of two assistants.

138. I have not submitted details of the work undertaken, as it would be undesirable to do so, until the time arrives for Mr. Duncan to issue his Annual Report.

Bewdley Urban District.

Synopsis of Annual Report.

| | | | |
|---------------------------|--------|-----|--------|
| Area in acres, 2,105. | | | |
| Population 1881 | ... | ... | 3,088. |
| " 1891 | ... | ... | 2,876. |
| <hr/> | | | |
| Decrease 1881-91 | ... | ... | 212. |
| Estimated Population 1898 | 2,876. | | |

Name of Medical Officer of Health, TREVOR WEBSTER.

| REGISTERED BIRTHS. | | | REGISTERED DEATHS. | | | MORTALITY FROM ALL CAUSES AT SUBJOINED AGES. | | | | | |
|--------------------|----------|--------|--------------------|----------|--------|--|----------------|-----------------|------------------|------------------|-----------------|
| Males. | Females. | Total. | Males. | Females. | Total. | Under 1 year. | 1 and under 5. | 5 and under 15. | 15 and under 25. | 25 and under 65. | 65 and upwards. |
| 35 | 37 | 72 | 23 | 19 | 42 | 11 | 5 | | 1 | 12 | 13 |

MORTALITY FROM SUBJOINED CAUSES.

| Smallpox. | Measles. | Scarlatina. | Diphtheria. | Croup ("not Spasmodic"). | Whooping Cough. | Typhus. | Enteric or Typhoid. | Other or Doubtful. | Diarrhoea & Dysentery. | Cholera. | Rheumatic Fever. | Erysipelas. | Pyæmia. | Puerperal Fever. | Ague. | Cancer. | Phthisis. | Pneumonia. | Bronchitis & Pleurisy. | Heart Disease. | Injuries. | Other Diseases. |
|-----------|----------|-------------|-------------|--------------------------|-----------------|---------|---------------------|--------------------|------------------------|----------|------------------|-------------|---------|------------------|-------|---------|-----------|------------|------------------------|----------------|-----------|-----------------|
| | | | | | | | 1 | | | | | | | | | 3 | 2 | 6 | 4 | 3 | | 23 |

Birth Rate, 25.0.

Death Rate, 14.6.

(a) Zymotic Death Rate, .3.

(b) Inf. Mortal 125.

Phthisis Death Rate, .6.

Resp. Death Rate, 3.4.

Smallpox Death Rate, 0.0.

Measles Death Rate, 0.0.

Scarlatina Death Rate, 0.0.

Diphtheria Death Rate, 0.0.

Whooping Cough Death Rate, 0.0.

(c) Fever Death Rate, .3.

Diarrhoea Death Rate, 0.0.

Cancer Death Rate, 1.0.

(a) Includes Smallpox, Measles, Scarlatina, Diphtheria, Whooping Cough, Fever, and Diarrhoea.

(b) Estimated by measuring the proportion of deaths of infants under 1 year per 1,000 of the births registered during the same period.

(c) Including Typhus, Enteric Fever, and indefinite forms of Continued Fevers.

Bewdley Urban District.

VITAL STATISTICS.

| | Average for the Years 1884 to 1898 in- clusive. | 1898 | 1897 | 1896 | 1895 | 1894 | 1893 | 1892 | 1891 | 1890 | 1889 | 1888 | 1887 | 1886 | 1885 | 1884 |
|---|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Birth Rate per 1,000 of the population. - | 27.3 | 25.0 | 30.5 | 29.2 | 22.2 | 33.7 | 29.5 | 36.6 | 26.1 | 19.3 | 27.0 | 27.3 | 27.1 | 26.7 | 26.1 | 24.6 |
| Total death rate per 1,000 of the population - | 16.2 | 14.0 | 14.9 | 18.4 | 20.8 | 15.1 | 17.5 | 16.1 | 21.6 | 16.2 | 11.8 | 14.3 | 14.0 | 16.0 | 20.3 | 12.6 |
| Death Rate from the Seven Princi- pal Zymotic Diseases per 1,000 of the population - | 1.0 | .3 | 1.0 | .3 | 1.0 | 1.7 | 0.0 | 0.0 | .3 | .3 | 1.2 | 1.8 | 1.2 | 1.5 | 5.2 | 1.2 |
| Rate of Infant Mor- tality estimated by measuring the proportion of Children who Died before Attaining 1 Year per 1,000 of the Births Regis- tered during the same period - | 150 | 125 | 125 | 154 | 218 | 132 | 93 | 94 | 266 | 146 | 128 | 279 | 103 | 115 | 141 | 114 |

CASES OF INFECTIOUS DISEASES.

| | Smallpox. | Measles. | Scarlatina. | Diphtheria. | Membran- ous Croup. | Fever. | Erysipelas. | Puerperal Fever. |
|----------------|-----------|----------|-------------|-------------|------------------------|--------|-------------|---------------------|
| Cases ... | | | 6 | 1 | | 1 | | |
| Deaths ... | | | | | | 1 | | |
| Hospital Cases | | | | | | | | |
| „ Deaths | | | | | | | | |

Diseases prevalent :—Influenza.

Period :—Early part of year.

Schools Closed :—None.

Bewdley Urban District.

Mr. Webster reports that the Borough experienced a low death-rate (14.6), and was very free from Zymotic disease during the year.

He refers to the Local Government Board Inquiry, held in June, 1898, and states that the "want of water made itself more evident if possible than in 1897, but that there is now a prospect of a satisfactory supply being obtained from the Blackstone site on the Hill Farm," as Professor Lapworth has presented a report favouring boring in that locality, and Mr. Berrington, C.E., has been directed to prepare a scheme.

He, however, adds that he is convinced "that until a proper water supply and satisfactory method of sewage disposal have been undertaken the Council cannot expect new houses to be built, nor can they themselves equitably carry out the provisions of the Housing of the Working Classes Act, 1890.

As reported last year, the Local Government Board wrote to the Bewdley Corporation on the 19th July, urging that sewerage and water schemes should at once be prepared.

Bromsgrove Urban District.

Synopsis of Annual Report.

Area in acres, 1,061.

Population 1881 ... 7,960.

" 1891 ... 7,934.

Decrease 1881-91 ... 26.

Estimated Population 1898 8,150.

Name of Medical Officer of Health, CAMERON KIDD, M.B., F.R.C.S.

| REGISTERED BIRTHS. | | | REGISTERED DEATHS. | | | MORTALITY FROM ALL CAUSES AT SUBJOINED AGES. | | | | | |
|--------------------|----------|--------|--------------------|----------|--------|--|----------------|-----------------|------------------|------------------|-----------------|
| Males. | Females. | Total. | Males. | Females. | Total. | Under 1 year. | 1 and under 5. | 5 and under 15. | 15 and under 25. | 25 and under 65. | 65 and upwards. |
| 111 | 114 | 225 | 74 | 72 | *146 | 31 | 7 | 8 | 7 | 34 | 59 |

MORTALITY FROM SUBJOINED CAUSES.

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Smallpox. | | | | | | | | | | | | | | | | | | | | | | | | |
| Measles. | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Scarlatina. | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Diphtheria. | | | | | | | | | | | | | | | | | | | | | | | | |
| Croup (not "spasmodic") | | | | | | | | | | | | | | | | | | | | | | | | |
| Whooping Cough. | 4 | | | | | | | | | | | | | | | | | | | | | | | |
| Typhus. | | | | | | | | | | | | | | | | | | | | | | | | |
| Enteric or Typhoid. | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| Other or Doubtful. | | | | | | | | | | | | | | | | | | | | | | | | |
| Diarrhœa & Dysentery. | 6 | | | | | | | | | | | | | | | | | | | | | | | |
| Cholera. | | | | | | | | | | | | | | | | | | | | | | | | |
| Rheumatic Fever. | | | | | | | | | | | | | | | | | | | | | | | | |
| Erysipelas. | | | | | | | | | | | | | | | | | | | | | | | | |
| Pyæmia. | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Puerperal Fever. | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Ague. | | | | | | | | | | | | | | | | | | | | | | | | |
| Cancer. | 8 | | | | | | | | | | | | | | | | | | | | | | | |
| Phthisis. | 7 | | | | | | | | | | | | | | | | | | | | | | | |
| Pneumonia. | 13 | | | | | | | | | | | | | | | | | | | | | | | |
| Bronchitis & Pleurisy | 10 | | | | | | | | | | | | | | | | | | | | | | | |
| Heart Disease. | 12 | | | | | | | | | | | | | | | | | | | | | | | |
| Injuries. | 4 | | | | | | | | | | | | | | | | | | | | | | | |
| Other Diseases. | 73 | | | | | | | | | | | | | | | | | | | | | | | |

Birth Rate, 27·6.

Death Rate, 16·6.

(a) Zymotic Death Rate, 1·7 (f).

(b) Inf. Mortal, 133.

Phthisis Death Rate, ·8.

Resp. Death Rate, 2·8.

Smallpox Death Rate, 0·0.

Measles Death Rate, ·2.

Scarlatina Death Rate, ·12.

Diphtheria Death Rate, 0·0.

Whooping Cough Death Rate, ·4.

(c) Fever Death Rate, ·12.

Diarrhœa Death Rate, ·7.

Cancer Death Rate, ·98.

(a) Includes Smallpox, Measles, Scarlatina, Diphtheria, Whooping Cough, Fever, and Diarrhœa.

(b) Estimated by measuring the proportion of deaths of infants under 1 year per 1,000 of the births registered during the same period.

(c) Including Typhus, Enteric Fever, and indefinite forms of continued Fevers.

(d) 2 other deaths occurred at the Isolation Hospital in persons belonging to Redditch.

(e) 1 other death occurred at the Isolation Hospital in a person belonging to North Bromsgrove.

(f) Excluding 3 deaths in Isolation Hospital in persons not belonging to the District.

(*) When deaths among persons not belonging to the District are included the Death Rate would be 17·9.

Bromsgrove Urban District.

VITAL STATISTICS.

| | Average for the Years 1884 to 1898 in- clusive. | 1898 | 1897 | 1896 | 1895 | 1894 | 1893 | 1892 | 1891 | 1890 | 1889 | 1888 | 1887 | 1886 | 1885 | 1884 |
|---|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Birth Rate per 1,000 of the population - | 31.5 | 27.6 | 30.1 | 29.2 | 30.5 | 28.4 | 35.1 | 30.8 | 31.3 | 31.0 | 32.1 | 31.5 | 32.1 | 35.5 | 33.2 | 34.1 |
| Total Death Rate per 1,000 of the population - | 19.3 | 16.6 | 18.2 | 14.3 | 17.3 | 15.8 | 20.1 | 25.8 | 18.7 | 19.4 | 17.3 | 19.2 | 23.8 | 22.8 | 20.3 | 20.1 |
| Death Rate from the Seven Princi- pal Zymotic Diseases per 1,000 of the population - | 2.2 | 1.7 | 3.2 | 1.3 | 2.8 | 1.0 | 4.0 | 1.1 | 1.7 | 3.6 | 2.0 | .7 | 3.6 | 5.2 | 1.1 | 1.3 |
| Rate of Infant Mor- tality estimated by measuring the proportion of Children who Died before Attaining 1 Year per 1,000 of the Births Regis- tered during the same period - | 133 | 133 | 132 | 128 | 139 | 106 | 182 | 159 | 108 | 136 | 131 | 127 | 144 | 131 | 124 | 117 |

CASES OF INFECTIOUS DISEASES.

| | Smallpox. | Measles. | Scarlatina. | Diphtheria. | Membran- eous Croup. | Fever. | Erysipelas. | Puerperal Fever. |
|----------------|-----------|----------|-------------|-------------|-------------------------|--------|-------------|---------------------|
| Cases ... | | | 22 | 2 | | 3 | 5 | 1 |
| Deaths ... | | 2 | 1(d) | | | 1(e) | | 1 |
| Hospital Cases | | | 11 | | | | | |
| „ Deaths | | | 1 | | | | | |

Diseases prevalent :—Scarlet Fever.

Period :—August to November.

Schools Closed :—

Bromsgrove Urban District.

Dr. Kidd points out that his report contains several satisfactory features as compared with the record of the preceding year; among which are a decreasing general Death-rate and Zymotic-rate, with an increasing population. He mentions that the average Death-rate for the last 10 years is 18.2, the average for the first quinquennial period of that decade being 20.2, while that for the last was only 16.2. Similarly, the Zymotic-rate for the corresponding 10 years is 2.3, that of the former quinquennial period being 2.6, and that of the latter, 2.0.

The Zymotic Death-rate for 1898 (1.7) excludes 2 deaths from Scarlet Fever and one from Typhoid, which occurred at the Isolation Hospital among persons not belonging to the District.

Dr. Kidd mentions that the decline in the number of cases of Scarlet Fever is no doubt attributable to the prompt removal of patients to the Isolation Hospital.

Diphtheria, which was endemic in 1897, is represented by 2 cases only.

The subject of Tuberculosis is dealt with in the report. The house to house survey of the District is now complete, and forms a valuable record of the sanitary details of the town. House accommodation is improving on the whole, and building is said to be actively proceeding.

Sewerage questions in the Hill Top and Charford Districts have been under consideration.

Extensions of the East Worcestershire Waterworks Company's mains have been made, and 51 houses have been supplied with water.

The abolition of the old privy middens and ashpits, which Dr. Kidd has so long advocated, is proceeding slowly; but it is said that the town is greatly improved in this respect.

The Bake-houses are reported to be clean and well kept; but it is again mentioned that the situation of several of the Slaughter-houses is unsatisfactory.

Bromsgrove North Urban District.

Synopsis of Annual Report.

Area in acres, 10,596.

| | | | |
|-----------------|-----|-----|-------|
| Population 1881 | ... | ... | 4,853 |
| " 1891 | ... | ... | 5,072 |

Increase 1881-91 ... 219

Estimated Population, 1898 5,350

Name of Medical Officer of Health, H. CAMERON KIDD, M.B.

| REGISTERED BIRTHS. | | | REGISTERED DEATHS. | | | MORTALITY FROM ALL CAUSES AT SUBJOINED AGES. | | | | | |
|--------------------|----------|--------|--------------------|----------|--------|--|----------------|-----------------|------------------|------------------|-----------------|
| Males. | Females. | Total. | Males. | Females. | Total. | Under 1 year. | 1 and under 5. | 5 and under 15. | 15 and under 25. | 25 and under 65. | 65 and upwards. |
| 83 | 84 | 167 | 35 | 36 | 71 | 18 | | 2 | 4 | 20 | 27 |

MORTALITY FROM SUBJOINED CAUSES.

| Smallpox. | Measles. | Scarlatina. | Diphtheria. | Croup (not "spasmodic"). | Whooping Cough. | CONTINUED FEVERS. | | Diarrhoea & Dysentery. | Cholera. | Rheumatic Fever. | Erysipelas. | Pyæmia. | Puerperal Fever. | Ague. | Cancer. | Phthisis. | Pneumonia. | Bronchitis & Pleurisy. | Heart Disease. | Injuries. | Other Diseases. |
|-----------|----------|-------------|-------------|--------------------------|-----------------|-------------------|---------------------|------------------------|----------|------------------|-------------|---------|------------------|-------|---------|-----------|------------|------------------------|----------------|-----------|-----------------|
| | | | | | | Typhus. | Enteric or Typhoid. | Other or Doubtful. | | | | | | | | | | | | | |
| | | | | | 1 | | 2 | | | | 1 | | 1 | | 1 | 2 | 5 | 12 | 12 | 1 | 30 |

- Birth Rate, 31·2. Death Rate, 13·2.
- (a) Zymotic Death Rate, 1·3. (b) Inf. Mortal, 107.
- Phthisis Death Rate, ·3. Resp. Death Rate, 3·1.
- Smallpox Death Rate, 0·0. Measles Death Rate, 0·0.
- Scarlatina Death Rate, 0·0. Diphtheria Death Rate, 0·0.
- Whooping Cough Death Rate, ·18. (c) Fever Death Rate, ·3.
- Diarrhoea Death Rate, ·5. Cancer Death Rate, ·18.
- (a) Includes Smallpox, Measles, Scarlatina, Diphtheria, Whooping Cough, Fever and Diarrhoea.
- (b) Estimated by measuring the proportion of deaths of infants under 1 year per 1,000 of the births registered during the same period.
- (c) Including Typhus, Enteric Fever, and indefinite forms of Continued Fevers.

Bromsgrove North Urban District.

VITAL STATISTICS.

| | Average for the Years 1884 to 1898 in- clusive. | 1898 | 1897 | 1896 | 1895 | 1894 | 1893 | 1892 | 1891 | 1890 | 1889 | 1888 | 1887 | 1886 | 1885 | 1884 |
|--|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Birth Rate per 1,000 of the population. — | 31.2 | 31.2 | 24.9 | 28.9 | 31.8 | 26.2 | 35.3 | 30.9 | 28.7 | 31.5 | 31.3 | 31.4 | 31.1 | 36.3 | 38.4 | 31.2 |
| Total death rate per 1,000 of the population. — | 15.3 | 13.2 | 12.6 | 14.1 | 14.1 | 13.3 | 19.6 | 15.9 | 14.7 | 16.5 | 15.4 | 15.2 | 17.9 | 15.2 | 18.1 | 14.4 |
| Death Rate from the Seven Princi- pal Zymotic Diseases per 1,000 of the population. — | 1.4 | 1.3 | 1.8 | 1.5 | 1.9 | .7 | 1.7 | 1.6 | 2.3 | 2.5 | 1.0 | 0.0 | 2.2 | 1.2 | 1.4 | 1.2 |
| Rate of Infant Mor- tality estimated by measuring the proportion of Children who Died before Attaining 1 Year per 1,000 of the Births Regis- tered during the same period. — | 137 | 107 | 136 | 120 | 109 | 148 | 161 | 165 | 116 | 156 | 144 | 138 | 172 | 113 | 161 | 113 |

CASES OF INFECTIOUS DISEASES.

| | Smallpox. | Measles. | Scarlatina. | Diphtheria. | Membran- eous Croup. | Fever. | Erysipelas. | Puerperal Fever. |
|----------------|-----------|----------|-------------|-------------|-------------------------|--------|-------------|---------------------|
| Cases ... | | | 11 | | | 7 | 7 | 1 |
| Deaths ... | | | | | | 2 | 1 | 1 |
| Hospital Cases | | | 7 | | | 4 | | |
| „ Deaths | | | | | | 1 | | |

Diseases prevalent :—Scarlet Fever.

Period :—August and September.

Schools Closed :—Linthurst Schools.

Bromsgrove North Urban District.

Dr. Kidd records "an all round improvement in the Health Statistics," and that "the only unsatisfactory feature is the Infantile mortality." He mentions that the rate at "Catshill is 217, and at Burchill 300," and that "for very many years past the deaths of infants at Bourne Heath have averaged 250 per 1,000," which "deplorable state of affairs is due to strictly preventable causes . . . (such as) the labour of mothers in nailshops, wash-house, or field, the handing over of babies to the charge of very young children, irregular and improper feeding of infants."

Dr. Kidd is of opinion that many an infant life would be saved by a system of cottage lectures or visits by some competent person. Thus it would seem that Dr. Kidd thinks there is room for good work for Health Missioners, such as the County Council have retained at Stourbridge and Redditch.

With regard to Scarlet Fever, it is mentioned that there is a diminution in the number of Scarlet Fever cases, and Dr. Kidd eulogises the advantages offered by the hospital tents.

The report also shews that the present dumbwell system suffices fairly well for the needs of Barnt Green District, but that "it becomes more apparent every year that a system of sewerage will be imperative before very long." The water supply of the District is spoken of as being fairly good, and considerable improvement seems to have been effected in the excrement disposal.

River pollution is said to be much less than it used to be.

*Droitwich Urban District.**Synopsis of Annual Report.*

| | | | |
|---------------------------|-----|--------|--|
| Area in acres, 1,705. | | | |
| Population 1881 ... | ... | 3,761. | |
| „ 1891 ... | ... | 4,021. | |
| Increase 1881-91 ... | ... | 260 | |
| Estimated Population 1898 | | 4,177 | |

Name of Medical Officer of Health, PERCY A. RODEN, M.B.

| REGISTERED BIRTHS. | | | REGISTERED DEATHS. | | | MORTALITY FROM ALL CAUSES AT SUBJOINED AGES. | | | | | |
|--------------------|----------|--------|--------------------|----------|--------|--|----------------|-----------------|------------------|------------------|-----------------|
| Males. | Females. | Total. | Males. | Females. | Total. | Under 1 year. | 1 and under 5. | 5 and under 15. | 15 and under 25. | 25 and under 65. | 65 and upwards. |
| 54 | 58 | 112 | 46 | 29 | 75 | 14 | 11 | | 1 | 29 | 20 |

MORTALITY FROM SUBJOINED CAUSES.

| Smallpox. | Measles. | Scarlatina. | Diphtheria. | Croup (not "spasmodic"). | Whooping Cough. | Typhus. | Enteric or Typhoid. | Other or Doubtful. | CONTINUED FEVERS. | Diarrhoea & Dysentery. | Cholera. | Rheumatic Fever. | Erysipelas. | Pyæmia. | Puerperal Fever. | Ague. | Cancer. | Phthisis. | Pneumonia. | Bronchitis & Pleurisy. | Heart Disease. | Injuries. | Other Diseases. |
|-----------|----------|-------------|-------------|--------------------------|-----------------|---------|---------------------|--------------------|-------------------|------------------------|----------|------------------|-------------|---------|------------------|-------|---------|-----------|------------|------------------------|----------------|-----------|-----------------|
| 5 | | | | | | | | | | 3 | | | | | | | 4 | 3 | 7 | 2 | 6 | 1 | 44 |

Birth Rate, 26·8.

Death Rate, 17·9*.

(a) Zymotic Death Rate, 1·9.

(b) Inf. Mortal, 125.

Phthisis Death Rate, ·7.

Resp. Death Rate, 2·1.

Smallpox Death Rate, 0·0.

Measles Death Rate, 1·1.

Scarlatina Death Rate, 0·0.

Diphtheria Death Rate, 0·0.

Whooping Cough Death Rate, 0·0.

(c) Fever Death Rate, 0·0.

Diarrhoea Death Rate, ·71.

Cancer Death Rate, ·95.

(a) Includes Smallpox, Measles, Scarlatina, Diphtheria, Whooping Cough, Fever, and Diarrhoea.

(b) Estimated by measuring the proportion of deaths of infants under 1 year per 1,000 of the births registered during the same period.

(c) Including Typhus, Enteric Fever, and indefinite forms of Continued Fevers.

(*) Corrected Death Rate 13·6.

Droitwich Urban District.

VITAL STATISTICS.

| | Average for the Years 1889 to 1898 in- clusive. | 1898 | 1897 | 1896 | 1895 | 1894 | 1893 | 1892 | 1891 | 1890 | 1889 | 1888 | 1887 | 1886 | 1885 | 1884 |
|--|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Birth Rate per 1,000 of the population - | 30.5 | 26.8 | 26.0 | 29.4 | 31.4 | 27.7 | 31.5 | 30.5 | 29.2 | 31.7 | 41.0 | | | | | |
| Total Death Rate per 1,000 of the population - | 20.7 | 17.9 | 19.6 | 18.9 | 24.6 | 24.8 | 21.8 | 20.5 | 22.2 | 21.7 | 15.2 | | | | | |
| Death Rate from the Seven Princi- pal Zymotic Diseases per 1,000 of the population - | 1.0 | 1.9 | 1.6 | .2 | 1.2 | 1.4 | 1.7 | 0.0 | .9 | .5 | .7 | | | | | |
| Rate of Infant Mor- tality estimated by measuring the proportion of Children who Died before Attaining 1 Year per 1,000 of the Births Regis- tered during the same period. - | 139 | 125 | 110 | 195 | 168 | 140 | 126 | 139 | 211 | 141 | 37 | | | | | |

CASES OF INFECTIOUS DISEASES.

| | Smallpox. | Measles. | Scarlatina. | Diphtheria. | Membran- ous Croup | Fever. | Erysipelas. | Puerperal Fever. |
|----------------|-----------|----------|-------------|-------------|-----------------------|--------|-------------|---------------------|
| Cases ... | ... | | 7 | 1 | | 1 | | |
| Deaths ... | | 5 | | | | | | |
| Hospital Cases | | | 4 | | | | | |
| „ Deaths | | | | | | | | |

Diseases prevalent :—Measles.

Period :—January.

Schools Closed ;—

Droitwich Urban District.

Dr. Roden points out that the General Death-rate (17.9), if corrected by excluding the 8 patients in the Borough who did not belong to the District, becomes 13.6.

He reports that the question of improving the drainage of the Borough, to which reference was made in a special report (a copy of which was forwarded to the County Council), is still under consideration.

In my Digest for 1897, I reported that the bye-laws which have been so long under consideration were then being printed, and Dr. Roden, in his report for last year, says that that is the position at the present time. Therefore this matter does not appear to be proceeding with much expedition.

Dr. Roden says that the Slaughter-houses and Milkshops are kept in good order, and that the water supply is excellent; but he makes no allusion to Canal Boats and Bake-houses, or excrement disposal of the Borough.

*Evesham Urban District.**Synopsis of Annual Report.*

Area in acres, 2,265.

Population 1881 ... 5,112.

" 1891 ... 5,836.

Increase 1881-91 ... 724.

Estimated Population 1898 7,150.

Name of Medical Officer of Health, G. H. FOSBROKE, D.P.H., Camb.

| REGISTERED BIRTHS. | | | REGISTERED DEATHS. | | | MORTALITY FROM ALL CAUSES AT SUBJOINED AGES. | | | | | |
|--------------------|----------|--------|--------------------|----------|--------|--|----------------|-----------------|------------------|------------------|-----------------|
| Males. | Females. | Total. | Males. | Females. | Total. | Under 1 year. | 1 and under 5. | 5 and under 15. | 15 and under 25. | 25 and under 65. | 65 and upwards. |
| 104 | 97 | 201 | 60 | 41 | 101 | 24 | 13 | 3 | 4 | 32 | 25 |

MORTALITY FROM SUBJOINED CAUSES.

| Smallpox. | Measles. | Scarlatina. | Diphtheria. | Croup ("not Spasmodic"). | Whooping Cough. | Typhus. | Enteric or Typhoid. | Other or Doubtful. | CONTINUED FEVERS. | | Diarrhoea & Dysentery. | Cholera. | Rheumatic Fever. | Erysipelas. | Pyæmia. | Puerperal Fever. | Ague. | Cancer. | Phthisis. | Pneumonia. | Bronchitis & Pleurisy. | Heart Disease. | Injuries. | Other Diseases. |
|-----------|----------|-------------|-------------|--------------------------|-----------------|---------|---------------------|--------------------|-------------------|--|------------------------|----------|------------------|-------------|---------|------------------|-------|---------|-----------|------------|------------------------|----------------|-----------|-----------------|
| | | 1 | 3 | | 1 | | | | | | 3 | | | | | 1 | | 8 | 2 | 6 | 7 | 9 | 4 | 56 |

Birth Rate, 28·1.

Death Rate, 14·1.

(a) Zymotic Death Rate, 1·1.

(b) Inf. Mortal 119.

Phthisis Death Rate, '26.

Resp. Death Rate, 1·8.

Smallpox Death Rate, 0·0.

Measles Death Rate, 0·0.

Scarlatina Death Rate, '13.

Diphtheria Death Rate, '4.

Whooping Cough Death Rate, '13.

(c) Fever Death Rate, 0·0.

Diarrhoea Death Rate, '4.

Cancer Death Rate, 1·1.

(a) Includes Smallpox, Measles, Scarlatina, Diphtheria, Whooping Cough, Fever, and Diarrhoea.

(b) Estimated by measuring the proportion of deaths of infants under 1 year per 1,000 of the births registered during the same period.

(c) Including Typhus, Enteric Fever, and indefinite forms of Continued Fevers.

Evesham Urban District.

VITAL STATISTICS.

| | Average for the Years 1884 to 1898 in- clusive. | 1898 | 1897 | 1896 | 1895 | 1894 | 1893 | 1892 | 1891 | 1890 | 1889 | 1888 | 1887 | 1886 | 1885 | 1884 |
|---|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Birth Rate per 1,000 of the population. — | 32.6 | 28.1 | 28.7 | 36.3 | 34.7 | 31.5 | 32.3 | 30.3 | 31.0 | 31.2 | 35.3 | 39.6 | 31.2 | 31.7 | 33.3 | 32.2 |
| Total death rate per 1,000 of the population — | 15.2 | 14.1 | 13.0 | 13.7 | 16.7 | 13.5 | 12.6 | 18.1 | 16.2 | 14.1 | 14.7 | 16.5 | 17.9 | 12.8 | 14.7 | 15.4 |
| Death Rate from the Seven Princi- pal Zymotic Diseases per 1,000 of the population — | 1.5 | 1.1 | 1.2 | .6 | 1.1 | 1.3 | .5 | 3.5 | 1.1 | .5 | 2.6 | .7 | 3.0 | 2.6 | 0.0 | 1.3 |
| Rate of Infant Mor- tality estimated by measuring the proportion of Children who Died before Attaining 1 Year per 1,000 of the Births Regis- tered during the same period — | 105 | 119 | 116 | 89 | 128 | 97 | 95 | 163 | 80 | 144 | 80 | 81 | 164 | 108 | 57 | 78 |

CASES OF INFECTIOUS DISEASES.

| | Smallpox. | Measles. | Scarlatina. | Diphtheria. | Membran- eous Croup. | Fever. | Erysipelas. | Puerperal Fever. |
|----------------|-----------|----------|-------------|-------------|-------------------------|--------|-------------|---------------------|
| Cases .. | | 4 | 5 | 5 | | 6 | 14 | 1 |
| Deaths ... | | | 1 | 3 | | | | 1 |
| Hospital Cases | | | 5 | 5 | | | | |
| „ Deaths | | | 1 | 3 | | | | |

Diseases prevalent :—

Period :—

Schools Closed :—

Evesham Urban District.

The low Death-rate of 14.1 is recorded, and is even lower than the average for the years 1889-98 inclusive (15.2).

The Zymotic-rate (1.1) includes one death from Scarlet Fever and three from Diphtheria.

The death from Scarlet Fever, and another from Diphtheria, occurred at the Sanatorium among patients brought there from outside the Borough.

The District was very free from Zymotic disease.

Six cases of Typhoid Fever were notified on premises where no insanitary condition was to be found; but probably they were due to soil contamination, as the sewerage of the locality is not entirely satisfactory; since then, however, the Corporation have retained an Engineer to prepare a scheme for improving the Borough sewerage.

Building is being rapidly carried on, and the Corporation have dealt with several houses under the Housing of the Working Classes Act, 1890.

Very few middens are in existence, and the sanitary arrangements of the town are generally satisfactory.

Systematic inspection is regularly carried on.

Kidderminster Urban District.

Synopsis of Annual Report.

| | | | |
|---------------------------|---------|-----|---------|
| Area in acres, 1,213. | | | |
| Population 1881 | ... | ... | 24,270. |
| " 1891 | ... | ... | 24,803. |
| <hr/> | | | |
| Increase 1881-91 | ... | ... | 533. |
| Estimated Population 1898 | 25,000. | | |

Name of Medical Officer of Health, DAVID CORBET.

| REGISTERED BIRTHS. | | | REGISTERED DEATHS. | | | MORTALITY FROM ALL CAUSES AT SUBJOINED AGES. | | | | | |
|--------------------|----------|--------|--------------------|----------|--------|--|----------------|-----------------|------------------|------------------|-----------------|
| Males. | Females. | Total. | Males. | Females. | Total. | Under 1 year. | 1 and under 5. | 5 and under 15. | 15 and under 25. | 25 and under 65. | 65 and upwards. |
| 228 | 280 | 568 | 198 | 196 | 394 | 89 | 20 | 17 | 17 | 121 | 130 |

MORTALITY FROM SUBJOINED CAUSES.

| Smallpox. | Measles. | Scarlatina. | Diphtheria. | Croup (not "spasmodic") | Whooping Cough. | CONTINUED FEVERS. | | | Diarrhoea & Dysentery. | Cholera. | Rheumatic Fever. | Erysipelas. | Pyæmia. | Puerperal Fever. | Ague. | Cancer. | Phthisis. | Pneumonia. | Bronchitis & Pleurisy. | Heart Disease. | Injuries. | Other Diseases. |
|-----------|----------|-------------|-------------|-------------------------|-----------------|-------------------|---------------------|--------------------|------------------------|----------|------------------|-------------|---------|------------------|-------|---------|-----------|------------|------------------------|----------------|-----------|-----------------|
| 1 | 7 | 3 | 1 | | | Typhus. | Enteric or Typhoid. | Other or Doubtful. | 10 | | | 1 | | | | | 22 | 56 | 32 | 8 | 25 | 1 |

Birth Rate, 22·7.

Death Rate, 15·7*.

(a) Zymotic Death Rate, ·8.

(b) Inf. Mortal, 156.

Phthisis Death Rate, ·8.

Resp. Death Rate, 2·2.

Smallpox Death Rate, 0·0.

Measles Death Rate, ·04.

Scarlatina Death Rate, 0·0.

Diphtheria Death Rate, ·2.

Whooping Cough Death Rate, ·04.

Diarrhoea Death Rate, ·4.

(c) Fever Death Rate, ·08.

Cancer Death Rate, 0·0.

(a) Includes Smallpox, Measles, Scarlatina, Diphtheria, Whooping Cough, Fever, and Diarrhoea.

(b) Estimated by measuring the proportion of deaths of infants under 1 year per 1,000 of the births registered during the same period.

(c) Including Typhus, Enteric Fever, and indefinite forms of continued Fevers.

* Excluding deaths of persons in public Institutions from other localities, the death-rate would be 14·8.

Kidderminster Urban District.

VITAL STATISTICS.

| | Average for the Years 1884 to 1898 in- clusive. | 1898 | 1897 | 1896 | 1895 | 1894 | 1893 | 1892 | 1891 | 1890 | 1889 | 1888 | 1887 | 1886 | 1885 | 1884 |
|---|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Birth Rate per 1,000 of the population - | 26.6 | 22.7 | 24.6 | 24.5 | 25.4 | 25.6 | 26.7 | 26.9 | 25.1 | 26.5 | 26.0 | 28.3 | 30.4 | 26.1 | 29.7 | 31.1 |
| Total Death Rate per 1,000 of the population - | 15.7 | 15.7 | 17.0 | 15.9 | 18.8 | 15.6 | 17.2 | 19.1 | 18.1 | 17.2 | 16.8 | 17.0 | 16.9 | 17.6 | 19.8 | 19.7 |
| Death Rate from the Seven Princi- pal Zymotic Diseases per 1,000 of the population - | 1.3 | .8 | 1.8 | .7 | .7 | 1.0 | 1.5 | 1.9 | 1.4 | 1.1 | .9 | .5 | 1.1 | 1.2 | 1.4 | 3.5 |
| Rate of Infant Mor- tality estimated by measuring the proportion of Children who Died before Attaining 1 Year per 1,000 of the Births Regis- tered during the same period - | 155 | 156 | 179 | 175 | 163 | 121 | 145 | 160 | 131 | 184 | 146 | 140 | 160 | 143 | 136 | 190 |

CASES OF INFECTIOUS DISEASES.

| | Smallpox. | Measles. | Scarlatina. | Diphtheria. | Membran- ous Croup. | Fever. | Erysipelas. | Puerperal Fever. |
|----------------|-----------|----------|-------------|-------------|------------------------|--------|-------------|---------------------|
| Cases ... | | 1 | 30 | 50 | | 12 | | |
| Deaths ... | | | | 7 | | 2 | | |
| Hospital Cases | | | 10 | | | | | |
| „ Deaths | | | | | | | | |

Diseases prevalent :—

Period :—

Schools Closed :—

Kidderminster Urban District.

Mr. Corbet states that, excluding deaths of persons in public institutions who did not belong to the Borough of Kidderminster, the death-rate is 14.8.

When referring to the Isolation Hospital, he mentions that 26 cases were treated during the year; 10 of whom came from the Borough, 12 from Stourport Urban District, 1 from Martley Rural District, and 3 cases from the Kidderminster Rural District.

He expresses satisfaction at the recent decision of the Corporation to admit cases of Typhoid Fever to the Hospital, and states that the administrative accommodation urgently needs improvement.

The Slaughter-houses, Bake-houses, and Dairies and Cowsheds are regularly inspected, and, with the exception of a few Bake-houses, are all kept fairly clean.

Considerable improvement seems to have been effected under the Housing of the Working Classes Act 1890; 58 houses have been rendered habitable, 12 pulled down, and 27 closed.

King's Norton and Northfield Urban District.

Synopsis of Annual Report.

Area in acres, 22,454.

Population 1881 ... 19,376
 „ 1891 ... 28,300

Increase 1881-91 ... 8,924

Estimated Population, 1898 48,500

Name of Medical Officer of Health, FRANCIS HOLLINSHEAD, M.D.

| REGISTERED BIRTHS. | | | REGISTERED DEATHS. | | | MORTALITY FROM ALL CAUSES AT SUBJOINED AGES. | | | | | |
|--------------------|----------|--------|--------------------|----------|--------|--|----------------|-----------------|------------------|------------------|-----------------|
| Males. | Females. | Total. | Males. | Females. | Total. | Under 1 year. | 1 and under 5. | 5 and under 15. | 15 and under 25. | 25 and under 65. | 65 and upwards. |
| 699 | 633 | 1332 | 342 | 310 | 652 | 171 | 58 | 19 | 32 | 197 | 175 |

MORTALITY FROM SUBJOINED CAUSES.

| Smallpox. | Measles. | Scarlatina. | Diphtheria. | Croup (not "spasmodic"). | Whooping Cough. | CONTINUED FEVERS. | | | Diarrhoea & Dysentery. | Cholera. | Rheumatic Fever. | Erysipelas. | Pyæmia. | Puerperal Fever. | Ague. | Cancer. | Phthisis. | Pneumonia. | Bronchitis & Pleurisy. | Heart Disease. | Injuries. | Other Diseases. |
|-----------|----------|-------------|-------------|--------------------------|-----------------|---------------------|--------------------|--|------------------------|----------|------------------|-------------|---------|------------------|-------|---------|-----------|------------|------------------------|----------------|-----------|-----------------|
| 16 | 5 | 6 | | 4 | | Enteric or Typhoid. | Other or Doubtful. | | 19 | | 1 | | 1 | 1 | | 25 | 52 | 30 | 54 | 66 | 18 | 352 |

Birth Rate, 27·4.

Death Rate, 11·3 (d).

(a) Zymotic Death Rate, 0·9.

(b) Inf. Mortal, 128.

Phthisis Death Rate, 1·0.

Resp. Death Rate, 1·7.

Smallpox Death Rate, 0·0.

Measles Death Rate, '3.

Scarlatina Death Rate, '10.

Diphtheria Death Rate, '12.

Whooping Cough Death Rate, '08.

(c) Fever Death Rate, '02.

Diarrhoea Death Rate, '39.

Cancer Death Rate, '5.

(a) Includes Smallpox, Measles, Scarlatina, Diphtheria, Whooping Cough, Fever and Diarrhoea.

(b) Estimated by measuring the proportion of deaths of infants under 1 year per 1,000 of the births registered during the same period.

(c) Including Typhus, Enteric Fever, and indefinite forms of Continued Fevers.

(d) Excluding deaths among persons in public institutions not belonging to District.

King's Norton and Northfield Urban District.

VITAL STATISTICS.

| | Average for the Years 1884 to 1898 in- clusive. | 1898 | 1897 | 1896 | 1895 | 1894 | 1893 | 1892 | 1891 | 1890 | 1889 | 1888 | 1887 | 1886 | 1885 | 1884 |
|--|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Birth Rate per 1,000 of the population. - | 27.0 | 27.4 | 26.9 | 27.0 | 29.5 | 25.3 | 27.9 | 30.7 | 25.9 | 23.1 | 24.3 | 25.1 | 26.4 | 26.6 | 27.5 | 32.2 |
| Total death rate per 1,000 of the population. - | 12.8 | 11.3 | 12.1 | 11.5 | 14.6 | 14.2 | 17.9 | 12.3 | 12.3 | 12.0 | 10.6 | 10.2 | 12.7 | 13.6 | 12.9 | 14.0 |
| Death Rate from the Seven Principal Zymotic Diseases per 1,000 of the population. - | .8 | .9 | 1.4 | 1.1 | .8 | .6 | 1.0 | .7 | .7 | .7 | .7 | .5 | .9 | 1.3 | .4 | .7 |
| Rate of Infant Mor- tality estimated by measuring the proportion of Children who Died before Attaining 1 Year per 1,000 of the Births Registered during the same period. - | 111 | 128 | 147 | 118 | 105 | 114 | 136 | 103 | 110 | 120 | 88 | 107 | 101 | 116 | 105 | 79 |

CASES OF INFECTIOUS DISEASES.

| | Smallpox. | Measles. | Scarlatina. | Diphtheria. | Membran- eous Croup. | Fever. | Erysipelas. | Puerperal Fever. |
|----------------|-----------|----------|-------------|-------------|-------------------------|--------|-------------|---------------------|
| Cases ... | | | 151 | 38 | | 27 | 27 | 2 |
| Deaths ... | | 16 | 5 | 6 | | 2 | | 1 |
| Hospital Cases | | | 106* | | | | | |
| „ Deaths | | | 5 | | | | | |

Diseases prevalent :—Scarlet Fever and Diphtheria.

Period :—All the year.

Schools Closed :—In January, July and August.

(*) 21 cases admitted from outside District.

King's Norton and Northfield Urban District.

The King's Norton Rural District has, by order of the County Council, recently been urbanized.

Dr. Hollinshead calculates his Vital Statistics upon an estimated population of 48,500, which he says is a low one.

Included in the deaths from Zymotic disease are 2 from Scarlet Fever, 1 from Typhoid, and 1 from Diarrhoea among persons not belonging to the District.

151 cases of Scarlet Fever were notified. Only 38 cases of Diphtheria were reported, as compared with 92 in the previous year.

Dr. Hollinshead mentions that of the 127 cases admitted to the Hospital, 21 came from outside the District, and that the working of this Institution is as good as it can be. He says that the sanitary condition of the District is excellent, considering the rapidity of its growth; no less than 1,669 plans for new houses having been passed during the year.

He refers to the excellent model village which has been erected by Mr. George Cadbury.

He again urges his authority to abolish privies, which he deems to be "nothing less than abominations!"

He mentions that the sewers have been extended, as new houses have been built, and refers to the efforts now being made by his Council to acquire a provisional order to compel the Tame and Rea Drainage Board to receive the whole of the drainage from the Northfield District for treatment at their Saltley farm.

With reference to this matter, it should be mentioned that by request of the King's Norton Authority, the County Council supported the application for the Provisional Order, and as the outcome of negotiations with the Local Government Board, that Board informed the County Council (12 May, 1899), that "in view of the fact that the Drainage Board had conceded the principle of the inclusion of the area proposed to be added to their District, the Board do not propose to issue a Provisional Order this session."

There is no doubt that the delivery of the Kings Norton District sewage to the Tame and Rea Farm at Saltley will greatly improve the sanitary state of King's Norton District, and enable the local Authority to discard their sewerage works at Lifford, which are anything but satisfactory, in spite of the fact that they have only been in existence a few years.

The pollution of the River Rea still continues, and a joint representation from the Staffordshire County Council and the City of Birmingham, supported by the Worcestershire County Council, has been made to the Kings Norton Authority.

Details of the sanitary work carried out in this District are given in the Reports of the Sanitary Inspectors.

*Lye and Wollescote Urban District.**Synopsis of Annual Report.*

Area in acres, 784.

Population 1881 ... 9,382.

" 1891 ... 10,165.

Increase 1881-91 ... 783

Estimated Population 1898 10,779

Name of Medical Officer of Health, HENRY CHRISTOPHER DARBY.

| REGISTERED BIRTHS. | | | REGISTERED DEATHS. | | | MORTALITY FROM ALL CAUSES AT SUBJOINED AGES. | | | | | |
|--------------------|----------|--------|--------------------|----------|--------|--|----------------|-----------------|------------------|------------------|-----------------|
| Males. | Females. | Total. | Males. | Females. | Total. | Under 1 year. | 1 and under 5. | 5 and under 15. | 15 and under 25. | 25 and under 65. | 65 and upwards. |
| 200 | 182 | 382 | 114 | 86 | 200 | 65 | 42 | 8 | 9 | 44 | 32 |

MORTALITY FROM SUBJOINED CAUSES.

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Smallpox. | | | | | | | | | | | | | | | | | | | | | | | |
| Measles. | 25 | | | | | | | | | | | | | | | | | | | | | | |
| Scarlatina. | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Diphtheria. | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Croup (not "spasmodic"). | 2 | | | | | | | | | | | | | | | | | | | | | | |
| Whooping Cough. | 8 | | | | | | | | | | | | | | | | | | | | | | |
| Typhus. | | | | | | | | | | | | | | | | | | | | | | | |
| Enteric or Typhoid. | 3 | | | | | | | | | | | | | | | | | | | | | | |
| Other or Doubtful. | | | | | | | | | | | | | | | | | | | | | | | |
| Diarrhoea & Dysentery. | 24 | | | | | | | | | | | | | | | | | | | | | | |
| Cholera. | | | | | | | | | | | | | | | | | | | | | | | |
| Rheumatic Fever. | | | | | | | | | | | | | | | | | | | | | | | |
| Erysipelas. | | | | | | | | | | | | | | | | | | | | | | | |
| Pyæmia. | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Puerperal Fever. | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Ague. | | | | | | | | | | | | | | | | | | | | | | | |
| Cancer. | 4 | | | | | | | | | | | | | | | | | | | | | | |
| Phthisis. | 8 | | | | | | | | | | | | | | | | | | | | | | |
| Pneumonia. | 15 | | | | | | | | | | | | | | | | | | | | | | |
| Bronchitis & Pleurisy | 25 | | | | | | | | | | | | | | | | | | | | | | |
| Heart Disease. | 6 | | | | | | | | | | | | | | | | | | | | | | |
| Injuries. | 1 | | | | | | | | | | | | | | | | | | | | | | |
| Other Diseases. | 75 | | | | | | | | | | | | | | | | | | | | | | |

Birth Rate, 35·4.

Death Rate, 18·5.

(a) Zymotic Death Rate, 5·7.

(b) Inf. Mortal, 170.

Phthisis Death Rate, '74.

Resp. Death Rate, 3·7.

Smallpox Death Rate, 0·0.

Measles Death Rate, 2·4.

Scarlatina Death Rate, '09.

Diphtheria Death Rate, '09.

Whooping Cough Death Rate, '7.

(c) Fever Death Rate, '2.

Diarrhoea Death Rate, 2·2.

Cancer Death Rate, '3.

(a) Includes Smallpox, Measles, Scarlatina, Diphtheria, Whooping Cough, Fever, and Diarrhoea.

(b) Estimated by measuring the proportion of deaths of infants under 1 year per 1,000 of the births registered during the same period.

(c) Including Typhus, Enteric Fever, and indefinite forms of Continued Fevers.

Lye and Wollescote Urban District.

VITAL STATISTICS.

| | Average for the Years 1884 to 1898 in- clusive. | 1898 | 1897 | 1896 | 1895 | 1894 | 1893 | 1892 | 1891 | 1890 | 1889 | 1888 | 1887 | 1886 | 1885 | 1884 |
|--|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Birth Rate per 1,000 of the population - | 35.7 | 35.4 | 36.1 | | | | | | | | | | | | | |
| Total Death Rate per 1,000 of the population - | 18.1 | 18.5 | 16.1 | 16.7 | 16.2 | 17.0 | 14.2 | 21.3 | 16.7 | 19.2 | 19.3 | 16.2 | 18.9 | 19.9 | 19.8 | 21.7 |
| Death Rate from the Seven Princi- pal Zymotic Diseases per 1,000 of the population - | 2.4 | 5.7 | 2.2 | 2.7 | 3.5 | 4.0 | 2.2 | 1.1 | 1.4 | 1.8 | 2.7 | 1.2 | 1.6 | 2.3 | .9 | 4.1 |
| Rate of Infant Mor- tality estimated by measuring the proportion of Children who Died before Attaining 1 Year per 1,000 of the Births Regis- tered during the same period. - | 174 | 170 | 178 | | | | | | | | | | | | | |

CASES OF INFECTIOUS DISEASES.

| | Smallpox. | Measles. | Scarlatina. | Diphtheria. | Membran- eous Croup. | Fever. | Erysipelas. | Puerperal Fever. |
|----------------|-----------|----------|-------------|-------------|-------------------------|--------|-------------|---------------------|
| Cases ... | | | 34 | 4 | 2 | 37 | 20 | 1 |
| Deaths ... | | 25 | 1 | 1 | 2 | 3 | | 1 |
| Hospital Cases | | | 4 | | | 13 | | |
| „ Deaths | | | | | | | | |

Diseases prevalent :—Scarlet Fever, Measles, Enteric Fever.

Period :—Whole year.

Schools Closed :—Lye Board Schools, Wollescote Board Schools.

Lye and Wollescote Urban District.

Dr. Darby, in the 2nd Annual Report upon this newly-constituted District, again records unsatisfactory Vital Statistics; inasmuch as the Death-rate is 18.5, the Zymotic-rate 5.7, and the Infantile Mortality 170. The corresponding average rates for 1897 being 16.1, 2.2, and 178 respectively.

Dr. Darby explains that the high Zymotic-rate is mainly due to 25 deaths from Measles and 8 from Whooping Cough; but adds that Typhoid Fever was prevalent during the year.

His Annual Report also contains a special report on this outbreak of Typhoid Fever, to which I do not propose to allude, as I am, by your direction, at the present time investigating the local incidence of this disease. In connection with high infantile mortality, Dr. Darby explains that a course of lectures was arranged, but the class of persons for whom they were intended did not attend, consequently he advises his Council to apply to the County Council for the services of a Health Missioner, who could carry hygienic instruction into the homes of the poorer classes, as is now being done at Stourbridge and Redditch.

Of the 34 cases of Scarlet Fever, only 4 were removed to the Isolation Hospital.

A new system of sewerage has just been completed: 296 houses have been connected with the sewers, and 99 "slop closets" have been put in, which is said to be effecting improvement in the excrement disposal.

Dr. Darby strongly and justifiably complains of the prevalence of privy middens. Although 66 new houses have been erected during the year, there still seems to be a demand for houses at a low rental. 68 houses were supplied with water from the water works mains; but Dr. Darby urges that stringent measures should be taken to close polluted wells.

Malvern Urban District.

Synopsis of Annual Report.

Area in acres, 5,146.

Population 1881 ... 10,001.

" 1891 ... 14,420.

Increase 1881-91 ... 4,419.

Estimated Population 1898 14,838.

Name of Medical Officer of Health, G. H. FOSBROKE, D.P.H., Camb.

| REGISTERED BIRTHS. | | | REGISTERED DEATHS. | | | MORTALITY FROM ALL CAUSES AT SUBJOINED AGES. | | | | | |
|--------------------|----------|--------|--------------------|----------|--------|--|----------------|-----------------|------------------|------------------|-----------------|
| Males. | Females. | Total. | Males. | Females. | Total. | Under 1 year. | 1 and under 5. | 5 and under 15. | 15 and under 25. | 25 and under 65. | 65 and upwards. |
| 172 | 175 | 347 | 102 | 94 | 196 | 28 | 9 | 2 | 10 | 75 | 72 |

MORTALITY FROM SUBJOINED CAUSES.

| Smallpox. | Measles. | Scarlatina. | Diphtheria. | Croup ("not Spasmodic"). | Whooping Cough. | Typhus. | Enteric or Typhoid. | Other or Doubtful. | Diarrhoea & Dysentery. | Cholera. | Rheumatic Fever. | Erysipelas. | Pyæmia. | Puerperal Fever. | Ague. | Cancer. | Phthisis. | Pneumonia. | Bronchitis & Pleurisy. | Heart Disease. | Injuries. | Other Diseases. |
|-----------|----------|-------------|-------------|--------------------------|-----------------|---------|---------------------|--------------------|------------------------|----------|------------------|-------------|---------|------------------|-------|---------|-----------|------------|------------------------|----------------|-----------|-----------------|
| | | | | | 3 | | 1 | | 1 | | | | | | | 19 | 16 | 11 | 11 | 26 | 4 | 104 |

Birth Rate, 23·4.

Death Rate, 13·2.

(a) Zymotic Death Rate, 0·3.

(b) Inf. Mortal 79.

Phthisis Death Rate, 1·0.

Resp. Death Rate, 1·3.

Smallpox Death Rate, 0·0.

Measles Death Rate, 0·0.

Scarlatina Death Rate, 0·0.

Diphtheria Death Rate, 0·0.

Whooping Cough Death Rate, 0·2.

(c) Fever Death Rate, 0·6.

Diarrhoea Death Rate, 0·6.

Cancer Death Rate, 1·3.

(a) Includes Smallpox, Measles, Scarlatina, Diphtheria, Whooping Cough, Fever, and Diarrhoea.

(b) Estimated by measuring the proportion of deaths of infants under 1 year per 1,000 of the births registered during the same period.

(c) Including Typhus, Enteric Fever, and indefinite forms of Continued Fevers.

Malvern Urban District.

VITAL STATISTICS.

| | Average for the Years 1886 to 1898 in- clusive. | 1898 | 1897 | 1896 | 1895 | 1894 | 1893 | 1892 | 1891 | 1890 | 1889 | 1888 | 1887 | 1886 | 1885 | 1884 |
|---|--|------|------|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| Birth Rate per 1,000 of the population. — | 15.8 | 23.4 | 16.5 | 17.4 | 16.4 | 14.7 | 15.3 | 15.6 | 14.4 | 14.4 | 10.4 | | | | | |
| Total death rate per 1,000 of the population — | 12.4 | 13.2 | 12.6 | 12.8* | 15.0 | 13.7 | 11.6 | 14.8 | 10.6 | 12.5 | 10.1 | 12.0 | 10.6 | 12.1 | | |
| Death Rate from the Seven Princi- pal Zymotic Diseases per 1,000 of the population — | 0.42 | .3 | .3 | .9 | .4 | .4 | .3 | .6 | .5 | .3 | .2 | | | | | |
| Rate of Infant Mor- tality estimated by measuring the proportion of Children who Died before Attaining 1 Year per 1,000 of the Births Regis- tered during the same period — | 121 | 79 | 89 | 123 | 148 | 175 | 84 | 115 | 79 | 200 | 123 | | | | | |

CASES OF INFECTIOUS DISEASES.

| | Smallpox. | Measles. | Scarlatina. | Diphtheria. | Membran- ous Croup. | Fever. | Erysipelas. | Whooping Cough. |
|----------------|-----------|----------|-------------|-------------|------------------------|--------|-------------|--------------------|
| Cases ... | | 151 | 104 | 5 | | 10 | 19 | 58 |
| Deaths ... | | | | | | 1 | | 3 |
| Hospital Cases | | | 95 | | | | | |
| „ Deaths | | | | | | | | |

Diseases prevalent :—

Period :—

Schools Closed :—

* Equivalent Death-rate for 1893-4 including Malvern Wells.

Malvern Urban District.

By "Orders" of the County Council, the whole of the Malvern Link Urban District was amalgamated with Malvern on the 1st April, and a part of Welland was similarly annexed in September of last year. The Vital Statistics apply to these extended areas, and are seen to be low.

Although Measles (a notifiable disease) and Scarlet Fever were somewhat prevalent, no deaths were due to such causes. No less than 95 of the 104 cases of Scarlatina reported, 91 per cent. were removed to the temporary Isolation Hospital, and thus the disease was kept in check.

The 10 cases of Typhoid Fever notified, occurred in the late Malvern Link District, and were associated with local insanitary conditions.

The prevention of Tuberculosis is discussed at considerable length, and the suggestion is thrown out that it might be desirable to establish a Hospital for the open-air treatment of Tuberculosis, at some eligible spot in the District.

Owing to local opposition, the site near the Gas Works, purchased for the erection of an isolation Hospital, was discarded, and a new one obtained on the confines of the District. As the plans have been sanctioned by the Local Government Board, there seems at last to be every probability of a suitable isolation Hospital being built.

The District is regularly inspected, and not only have numerous sewer extensions been made, but a sewerage scheme for Malvern Wells and the Wyche has been completed. Application has been made to the Local Government Board, for a loan of £15,000 to carry out similar much needed works in the Link District.

Important water main extensions are being made, and there is every probability that before long, wholesome water will be available for all parts of the District.

The Bake-houses, Slaughter-houses, and Workshops are regularly visited, and the thorough way in which the house drains are laid and tested before being passed is a marked feature in Malvern sanitation.

Oldbury Urban District.

Synopsis of Annual Report.

| | | | |
|---------------------------|---------|-----|---------|
| Area in acres, 3,525. | | | |
| Population 1881 | ... | ... | 19,283. |
| " 1891 | ... | ... | 22,697. |
| <hr/> | | | |
| Increase 1881-91 | ... | ... | 3,414. |
| Estimated Population 1898 | 25,000. | | |

Name of Medical Officer of Health, ANDREW CUNNINGHAM, M.D.

| REGISTERED BIRTHS. | | | REGISTERED DEATHS. | | | MORTALITY FROM ALL CAUSES AT SUBJOINED AGES. | | | | | |
|--------------------|---------|--------|--------------------|----------|--------|--|----------------|-----------------|------------------|------------------|-----------------|
| Males. | Females | Total. | Males. | Females. | Total. | Under 1 year. | 1 and under 5. | 5 and under 15. | 15 and under 25. | 25 and under 65. | 65 and upwards. |
| 479 | 494 | 973 | 295 | 312 | 607 | 227 | 130 | 24 | 22 | 118 | 86 |

MORTALITY FROM SUBJOINED CAUSES.

| Smallpox. | Measles. | Scarlatina. | Diphtheria. | Croup (not "spasmodic") | Whooping Cough. | CONTINUED FEVERS. | | | Diarrhoea & Dysentery. | Cholera. | Rheumatic Fever. | Erysipelas. | Pyæmia. | Puerperal Fever. | Ague. | Cancer. | Phthisis. | Pneumonia. | Bronchitis & Pleurisy. | Heart Disease. | Injuries. | Other Diseases. |
|-----------|----------|-------------|-------------|-------------------------|-----------------|---------------------|--------------------|--|------------------------|----------|------------------|-------------|---------|------------------|-------|---------|-----------|------------|------------------------|----------------|-----------|-----------------|
| 68 | 3 | | 4 | 7 | | Enteric or Typhoid. | Other or Doubtful. | | 17 | | | 2 | | | | 1 | 24 | | 129 | 22 | | 304 |

Birth Rate, 38.0.

Death Rate, 23.6.

(a) Zymotic Death Rate, 4.7.

(b) Inf. Mortal, 233.

Phthisis Death Rate, .9.

Resp. Death Rate, 5.0.

Smallpox Death Rate, 0.0.

Measles Death Rate, 2.6.

Scarlatina Death Rate, .11.

Diphtheria Death Rate, 0.0.

Whooping Cough Death Rate, .2.

(c) Fever Death Rate, 1.0.

Diarrhoea Death Rate, .6.

Cancer Death Rate, .03.

(a) Includes Smallpox, Measles, Scarlatina, Diphtheria, Whooping Cough, Fever, and Diarrhoea.

(b) Estimated by measuring the proportion of deaths of infants under 1 year per 1,000 of the births registered during the same period.

(c) Including Typhus, Enteric Fever, and indefinite forms of continued Fevers.

Oldbury Urban District.

VITAL STATISTICS.

| | Average for the Years 1885 to 1898 in- clusive. | 1898 | 1897 | 1896 | 1895 | 1894 | 1893 | 1892 | 1891 | 1890 | 1889 | 1888 | 1887 | 1886 | 1885 | 1884 |
|---|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Birth Rate per 1,000 of the population - | 39.0 | 38.0 | 37.1 | 37.9 | 36.9 | 39.6 | 40.4 | 43.3 | 44.1 | 35.3 | 37.5 | 38.2 | 40.9 | 43.8 | 43.1 | |
| Total Death Rate per 1,000 of the population - | 20.8 | 23.6 | 16.8 | 22.9 | 19.0 | 16.6 | 22.8 | 24.6 | 23.5 | 20.8 | 18.4 | 22.3 | 20.5 | 19.6 | 2 | |
| Death Rate from the Seven Princi- pal Zymotic Diseases per 1,000 of the population - | 2.49 | 4.7 | 1.3 | 4.1 | 1.5 | 1.1 | 3.1 | 1.9 | 2.2 | 2.4 | 2.8 | 2.4 | 2.5 | 2.2 | 2.7 | |
| Rate of Infant Mor- tality estimated by measuring the proportion of Children who Died before Attaining 1 Year per 1,000 of the Births Regis- tered during the same period - | 200 | 233 | 184 | 214 | 202 | 172 | 217 | 215 | 199 | 226 | 166 | 208 | 200 | 190 | 174 | |

CASES OF INFECTIOUS DISEASES.

| | Smallpox. | Measles. | Scarlatina. | Diphtheria. | Membran- ous Group. | Fever. | Erysipelas. | Puerperal Fever. |
|----------------|-----------|----------|-------------|-------------|------------------------|--------|-------------|---------------------|
| Cases ... | | | 101 | 3 | 6 | 194 | 36 | 1 |
| Deaths ... | | 68 | 3 | | 4 | 26 | 2 | |
| Hospital Cases | | | | | | 10 | | |
| „ Deaths | | | | | | 3 | | |

Diseases prevalent :— Scarlet Fever, Typhoid Fever.

Period :—Whole year.

Schools Closed :—

Oldbury Urban District.

Dr. Cunningham, in submitting his Annual Report for 1898 (which is the last he will present, inasmuch as I regret to say he has resigned his position as Medical Officer of Health), shows that the Vital Statistics of Oldbury were very high, the Death-rate being 23.6, the Zymotic-rate 4.7, and the Infantile Mortality 233. This unsatisfactory state of things is not exceptional, for the corresponding average mortalities for the years 1885-1898 were 20.8, 2.9, and 200 respectively. It is obvious, therefore, that sanitary matters in Oldbury are in need of the grave consideration, which the following statement of the Urban District Council shows it is now receiving.

Dr. Cunningham gives, as an appendix to his Report, a print of the Special Report I presented to the County Council on the 21st January, 1899, and adds that he "most heartily endorses all the recommendations contained therein."

This Report deals with the sanitary defects of Oldbury at considerable length, and the following statement of the District Council shows the action being taken with respect to the "recommendations." I then made, viz.:

Recommendations of County Medical Officer.

1. "To render their present sewers thoroughly efficient, and provide suitable sewerage for those parts of the district without such provision."

Statement of Urban District Council.

The Council have appointed an Assistant to the Surveyor for the purpose of examining and taking levels of all the sewers in the district, and to mark all such sewers upon a plan, showing the levels, gradients, etc. When this work has been completed the Surveyor will make a full report to the Council. This will take from two to three months.

The Council have received the sanction of the Local Government Board to borrow £2,100 for the purpose of sewerage part of the district not now sewered, known as Rood End Road, Vicarage Road, Tat Bank Road, Stone Street, Cemetery Road, and the Gate Inn. Now the sanction has been obtained to borrow the money this work will be carried out immediately.

Application has been made to the Local Government Board for sanction to borrow £650 to sewer another part of their district known as Newbury Lane.

Application has also been made to the Local Government Board for sanction to borrow

Oldbury Urban District.

Recommendations of County
Medical Officer.

Statement of Urban District
Council.

1.—*Continued.*

£1,550 to enable the Council to sewer a part of the Warley District, known as Titford Road, Ashes Road, Pool Lane, and Causeway Green Road, which can be taken into the existing sewers and dealt with at the present Sewage Outfall Works at Oldbury.

To enable the Council to deal with the increased quantity of sewage at the Outfall Works, it has been decided to improve 5,615 square yards of land for filtration purposes, and to construct 2,527 square yards of fine filters, which, when added to the 800 square yards already in existence, will make a total area of 3,327 square yards of fine filters. The Local Government Board have sanctioned the expenditure of £7,149 for carrying out the above works. A Tender has been accepted for executing the same, which will be proceeded with at once and completed as expeditiously as possible. The Contractor is allowed six months to complete the work.

It will thus be seen the Council propose to expend upwards of £11,449 in this direction.

With reference to the sewage of Warley, which cannot be brought to Oldbury, the Council made application to the Birmingham Tame and Rea Drainage Board to take a portion of it from the Beech Lanes side of the district, but that Board refused to do so, giving as a reason that they had more sewage than they could deal with in the drainage area, and they could not take any sewage from any Authority outside the area.

Oldbury Urban District.

Recommendations of County
Medical Officer.

1.—*Continued.*

Statement of Urban District
Council.

The Council then employed Mr. J. T. Eayrs, M.I.C.E., of Birmingham, to prepare a scheme for sewerage Warley and providing Outfall Works, and he suggested that the Outfall Works should be constructed upon land belonging to Mr. Boycott, situate in Thimble Mill Lane, but upon Mr. Boycott being approached he declined to sell when he knew the purpose for which it was required.

This resulted in the scheme being altered. Mr. Eayrs has now suggested two other sites, the first of which part is situate in the Warley District and part in the District of the Smethwick Council, and is situate at the side and back of the land proposed to be purchased from Mr. Boycott, and is owned by the Smethwick Old Chapel Trustees. Mr. Eayrs is endeavouring to negotiate the purchase of this site. Even if terms can be arranged some difficulties must arise before the Outfall Works can be constructed, as the sanction of the Smethwick Council would have to be obtained, and objection will no doubt be made by the owners and occupiers of the houses abutting on or near the proposed works.

The second suggested site is at the back of Messrs. Nettlefold's Recreation Ground, situate in Thimble Mill Lane. This consists of about 12 acres. Mr. Eayrs has obtained an option of purchase.

The Council, in conjunction with Mr. Eayrs, are considering the best means of dealing with the matter.

Oldbury Urban District.

Recommendations of County
Medical Officer.

1.—*Continued.*

2. "To give orders for all new house drains, as well as defective old ones to be laid on the principle laid down in the Model Bye-laws of the Local Government Board."

3. "To devote special attention to the generally defective excrement disposal, with a view of gradually replacing the injurious privy middens, either with suitable w.c.'s, such as approved 'Flush-down Closets,' or 'Trough Closets,' according as circumstances require, and to cause such alterations to be made at the Schools without delay. If this were done the sanitary state of the district would be vastly improved, and the cost of scavenging materially reduced."

Statement of Urban District
Council.

Mr. Eayrs estimates the cost of sewerage Warley as follows:—

| | £ | s. | d. |
|------------------------|---------|----|----|
| Works, Buildings, and | | | |
| Contingencies ... | 13,301 | 18 | 0 |
| Machinery ... | 682 | 12 | 1 |
| Engineering, Legal Ex- | | | |
| penses and Sundries... | 1,498 | 18 | 3 |
| Purchase of Land ... | 1,286 | 14 | 4 |
| Estimated Total Cost | £16,771 | 2 | 7 |

This recommendation is being carried out.

In the construction of old and defective drains the Council have had them relaid to a sufficient gradient and properly trapped and ventilation shafts erected. The Council have not allowed "D" nor "Bell" traps to be put in

During the year 22 old drains have been reconstructed and ventilated, and the overflows from cisterns cut off.

Special attention has been given to the condition of privies and ashpits, with a view of gradually diminishing the number, and, as far as possible, to improve the sanitary condition of the respective premises and the surroundings of dwellings.

During this year the Council have caused 52 water closets to be put in where privy middens existed, and the ashpits reconstructed for the reception of dry ashes and rubbish only.

Six new privies and ashpits have been erected and 12 reconstructed or repaired.

SCHOOLS.

Messrs. Chance & Hunt, Ltd., have caused trough closets to be constructed at their Schools,

*Oldbury Urban District.*Recommendations of County
Medical Officer.3.—*Continued.*Statement of Urban District
Council.

situate in Park Lane, Oldbury, and the premises are now in proper sanitary condition.

British Schools, Langley.—Plans have been prepared for the construction of trough closets at these Schools, and the Management Committee are considering the most suitable place to erect them, so that the work can be done during the holidays.

National Schools, Broadwell Road, and St. John's Schools, Tat Bank.—The Management Committee of these Schools have appointed a Sub-Committee to carry out the work necessary to comply with the requirements of the Council, to put the closets and urinals at these Schools in efficient sanitary condition.

Free Schools, Birmingham Road.—The School Committee are considering the best means to be adopted to put the closets and urinals in proper order, and promise to have the work done as soon as possible.

Methodist Schools, Rounds Green.—The Council are informed that the Committee of these Schools have met for the purpose of devising means to carry out the recommendation of Dr. Fosbroke and the requirements of the Council.

Wesleyan Schools, Wesley Street.—The Inspector is informed by the Chairman of the Education Committee of these Schools that the matter is under consideration, and promises to have the work carried out as expeditiously as possible.

Tabernacle Schools, Talbot Street.—The Chairman of the School Committee informed the

*Oldbury Urban District.*Recommendations of County
Medical Officer.3.—*Continued.*

4. "To cause the Courts of Yards to be wholly paved with impervious material, so that cleansing may be easily accomplished and fouling of the soil adjacent to dwellings as far as possible prevented."

5. "To proceed with the closure of shallow wells used for drinking purposes."

Statement of Urban District
Council.

Sanitary Inspector that they were desirous of complying with the requirements of the Council, and would do so immediately they could.

With regard to this recommendation the Council have no Bye-laws to enforce it, but six yards have been wholly paved as required by the Council. The Council have caused a Bye-law to be made with regard to the paving of yards, and the same has been provisionally approved by the Local Government Board. When the same has been finally approved by the Board the Council will at once enforce it.

This has always been closely watched by the Officers of the Council. There are but very few in the District, and these are receiving constant attention. Samples have been taken and analysed by the County Analyst, and, if found unfit for drinking purposes, steps are at once taken to close them, and the South Staffordshire Water Works water put on the premises.

During the year ended December 31st, 1898, nine wells were closed by order of the Council, seven samples of water were taken and analysed, and 243 houses were supplied with water from the South Staffordshire Water Works Company's mains in consequence of notices served by the Council.

Since Warley was annexed to Oldbury the Council arranged with the South Staffordshire Water Works Company to lay mains in Warley upon payment of 10 per cent. per annum upon

*Oldbury Urban District.*Recommendations of County
Medical Officer.Statement of Urban District
Council.5.—*Continued.*

6. "To rigidly enforce the regulations with respect to Dairies and Cowsheds."

7. "To speedily adopt and enforce a series of Bye-laws with respect to Nuisances, New Streets, and Buildings, Slaughter-houses, and Lodging-houses."

the outlay. The mains have been laid at a cost to Oldbury of upwards of £230 per annum, which will be annually reduced as the revenue from the water rates increase.

The Council are compelling the owners of houses to provide their premises with a proper supply of water from the mains where no such provision is made.

The Council are rigidly enforcing their regulations.

Six Cowsheds have been reconstructed and made to conform with the regulations.

Two new Cowsheds are in course of erection.

Twenty Cowsheds are being reconstructed.

Three have been closed as unfit for the housing of Cattle.

The Council have issued a code of instructions to Cow-keepers and Dairymen for their guidance, with particulars relative to the feeding and tending of cattle, and especially with regard to Tuberculosis, a copy of which is sent herewith.

Bye-laws with regard to New Streets and Buildings have been prepared and submitted to the Local Government Board for preliminary approval, who have made many alterations and suggestions, and the same are now being printed, as altered by the Board, for the purpose of being brought before the Council for consideration.

This will be done as soon as possible, and no time lost in getting the Bye-laws into operation.

Bye-laws with respect to Nui-

Oldbury Urban District.

Recommendations of County
Medical Officer.

Statement of Urban District
Council.

7.—*Continued.*

8. "To cause all defective and dirty dwellings to be repaired and cleansed, and to close or reconstruct back-to-back cottages."

sances, Slaughter - houses, and Lodging - houses have been compiled, and preliminary approval of the Local Government Board obtained. The same are being printed. The requirements of Section 184 of the Public Health Act, 1875, with regard to publishing Bye-laws have been complied with. When they are printed they will be approved and adopted by the Council and forwarded to the Local Government Board for confirmation, and when confirmed will be immediately put into force and acted upon.

The Council have at all times paid strict attention to all defective and dirty dwellings, and have from time to time compelled the owners to have them repaired, cleansed, and put into sanitary order and condition, and in cases where the owners neglected or refused to carry out the notices of the Council steps have at once been taken to close the houses as unfit for human habitation. During the year ended 31st December, 1898, 20 houses were closed, 82 repaired, and 61 cleansed and limewashed.

With regard to back-to-back cottages, the Council are doing all they can in this matter, and in cases where there is not sufficient ventilation the Council take steps to have the same properly ventilated and the houses put in a proper, healthy and sanitary condition.

At the present time there are 23 houses being altered or reconstructed in order to comply with the requirements of the Council.

*Oldbury Urban District.*Recommendations of County
Medical Officer.

9. "To undertake the Scavenging of the Town by engaging a sufficient staff of their own men, and to carry out the work in the early morning when light is available for efficiently cleansing of the ashpits."

Statement of Urban District
Council.

The Council respectfully submit that the emptying and cleansing of privies and ashpits, &c., is being carried out under their present system as well and efficiently as is possible.

The work is being performed by two contractors. By Thomas Harvey for the Oldbury District, at a cost of £890 per annum, and by Joseph Smith for Warley, at a cost of £400 per annum. The contractors have to provide all men, carts, tools, &c., approved by the Council, and to remove and take away outside the District of the Council all ashes, refuse, excreta, &c., and are not allowed to tip or deposit anything within the District. Harvey is not to allow more than 40, and Smith not more than 10 closets and ashpits to accumulate upon the books at any one time requiring attention.

For each and every breach of the terms and conditions of the contract the contractors are liable to a penalty of £200, and 10s. per day so long as the breach continues.

The Sanitary Committee of the Council carefully considered the advisability of erecting a Destructor, and obtained particulars and information from other authorities who have Destructors at work, and came to the conclusion that the cost of erecting and maintenance of a Destructor would not justify them in recommending the Council to construct one.

*Oldbury Urban District.*Recommendations of County
Medical Officer.

10. "To provide suitable Hospital accommodation for cases of Scarlatina, Diphtheria, and Typhoid Fever."

Statement of Urban District
Council.

The Council cannot at present see their way to create the expenditure of providing an Isolation Hospital.

The Newbury Lane Hospital, which was originally used for Small-pox cases, has been converted into an Isolation Hospital for Infectious Diseases, and consists of an area of 6 acres and 2 roods, with one large house, containing four bedrooms, in which provision is made (I am informed by Dr. Buttery, Medical Officer of Health) for ten beds. There are also five Cottages, containing three rooms each, and in each Cottage accommodation is provided for two beds, and provision is also made for two small beds for children up to eight years of age, so that there is ample room for 20 beds and two small ones.

The Council have entered into an arrangement with the Smethwick District Council to allot 10 beds for the use of Oldbury, at their Hospital, for Small-pox cases.

The District Council therefore respectfully submit that there is sufficient accommodation for isolating and treating Typhoid Fever cases occurring in the District.

The Medical Officer states that 20 Typhoid Fever cases have been treated at the Hospital from the 1st September, 1898, to the 21st June, 1899.

In every case that Medical Practitioners recommend the

Oldbury Urban District.

Recommendations of County
Medical Officer.

10.—*Continued.*

Statement of Urban District
Council.

removal of Typhoid Fever Patients to the Hospital, steps are at once taken to remove the patient or patients to the Hospital.

In the event of an epidemic, and it becomes necessary to make further provision, the District Council would immediately erect Hospital Tents and deal with the whole of patients requiring removal from their own homes.

WALTER G. PODBURY,

Deputy Clerk.

PUBLIC BUILDINGS, OLDBURY,
17 *July* 1899.

Redditch Urban District.

Synopsis of Annual Report.

Area in acres, 1,032.

Population 1881 ... 9,961
 " 1891 ... 11,428

Increase 1881-91 ... 1,467

Estimated Population, 1898 14,000

Name of Medical Officer of Health, NEWTON WADE, M.B.

| REGISTERED BIRTHS. | | | REGISTERED DEATHS. | | | MORTALITY FROM ALL CAUSES AT SUBJOINED AGES. | | | | | |
|--------------------|----------|--------|--------------------|----------|--------|--|----------------|-----------------|------------------|------------------|-----------------|
| Males. | Females. | Total. | Males. | Females. | Total. | Under 1 year. | 1 and under 5. | 5 and under 15. | 15 and under 25. | 25 and under 65. | 65 and upwards. |
| 200 | 188 | 388 | 116 | 93 | 209 | 73 | 21 | 17 | 14 | 47 | 37 |

MORTALITY FROM SUBJOINED CAUSES.

| Smallpox. | Measles. | Scarlatina. | Diphtheria. | Croup (not "pseudomembranous"). | Whooping Cough. | Typhus. | Enteric or Typhoid. | Other or Doubtful. | Diarrhoea & Dysentery. | Cholera. | Rheumatic Fever. | Erysipelas. | Pyæmia. | Puerperal Fever. | Ague. | Cancer. | Phthisis. | Pneumonia. | Bronchitis & Pleurisy. | Heart Disease. | Injuries. | Other Diseases. |
|-----------|----------|-------------|-------------|---------------------------------|-----------------|---------|---------------------|--------------------|------------------------|----------|------------------|-------------|---------|------------------|-------|---------|-----------|------------|------------------------|----------------|-----------|-----------------|
| | | 9 | 2 | 20 | | | 3 | | 7 | | | 2 | | | | 5 | 21 | 5 | 27 | 12 | 3 | 93 |

Birth Rate, 27·7.

Death Rate, 14·9.

(a) Zymotic Death Rate, 2·9.

(b) Inf. Mortal, 188.

Phthisis Death Rate, 1·5.

Resp. Death Rate, 2·2.

Smallpox Death Rate, 0·0.

Measles Death Rate, 0·0.

Scarlatina Death Rate, ·5.

Diphtheria Death Rate, ·15.

Whooping Cough Death Rate, 1·4.

(c) Fever Death Rate, ·2.

Diarrhoea Death Rate, ·5.

Cancer Death Rate, ·4.

(a) Includes Smallpox, Measles, Scarlatina, Diphtheria, Whooping Cough, Fever and Diarrhoea.

(b) Estimated by measuring the proportion of deaths of infants under 1 year per 1,000 of the births registered during the same period.

(c) Including Typhus, Enteric Fever, and indefinite forms of Continued Fevers.

Redditch Urban District.

VITAL STATISTICS.

| | Average for the Years 1884 to 1898 in- clusive. | 1898 | 1897 | 1896 | 1895 | 1894 | 1893 | 1892 | 1891 | 1890 | 1889 | 1888 | 1887 | 1886 | 1885 | 1884 |
|--|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Birth Rate per 1,000 of the population. - | 30.4 | 27.7 | 25.9 | 28.3 | 29.4 | 28.3 | 33.7 | 33.8 | 33.7 | 31.2 | 35.0 | 34.1 | 31.3 | 34.2 | 33.5 | 37.3 |
| Total death rate per 1,000 of the population. - | 16.4 | 14.9 | 17.1 | 17.1 | 18.8 | 11.0 | 17.8 | 17.7 | 17.6 | 15.0 | 18.9 | 19.4 | 19.1 | 16.8 | 18.7 | 16.0 |
| Death Rate from the Seven Princi- pal Zymotic Diseases per 1,000 of the population. - | 2.0 | 2.9 | 3.2 | 1.8 | .9 | .9 | 2.2 | 1.7 | 2.2 | 1.1 | 2.4 | 2.7 | 3.1 | 1.1 | 2.9 | 1.7 |
| Rate of Infant Mor- tality estimated by measuring the proportion of Children who Died before Attaining 1 Year per 1,000 of the Births Regis- tered during the same period. - | 164 | 188 | 200 | 228 | 161 | 78 | 172 | 203 | 169 | 120 | 159 | 203 | 189 | 126 | 164 | 148 |

CASES OF INFECTIOUS DISEASES.

| | Smallpox. | Measles. | Scarlatina. | Diphtheria. | Membran- eous Croup. | Fever. | Erysipelas. | Puerperal Fever. |
|----------------|-----------|----------|-------------|-------------|-------------------------|--------|-------------|---------------------|
| Cases ... | | | 212 | 13 | | 39 | 26 | |
| Deaths ... | | | 98 | 2 | | 3 | 2 | |
| Hospital Cases | | | 13 | | | | | |
| " Deaths | | | 2 | | | | | |

Diseases prevalent :—Scarlatina and Typhoid Fever.

Period :—All the year.

Schools Closed :—

Redditch Urban District.

Dr. Newton Wade mentions that the Death-rate (14.9) is below the average for the years 1884-98 (16.4). The Infantile Mortality for 1898 was, however, still high (188), although less than that of 1897.

Scarlet Fever was prevalent; no less than 212 cases having been notified. Only 98 of these were treated in Hospital. Last year 32 cases of Enteric Fever were notified between January and October, but since the latter date and the end of 1898 no other was reported. The common Lodging-houses, Dairies, Cowsheds, and Milkshops and Bake-houses are reported to have been duly inspected. The house accommodation is said to be improved, the old houses in the centre of the town being gradually replaced by modern ones. The water supply of the locality is also said to be more satisfactory, no less than 53 wells having been closed.

Attention was specially called in 1897 to the defective excrement disposal; so it is very satisfactory to observe that Dr. Wade states that this is being rapidly improved, there being only about seven middens in existence.

*Stourbridge Urban District.**Synopsis of Annual Report.*

Area in acres, 1,023.

Population 1881 ... 15,380.

,, 1891 ... 14,891.

Decrease 1881-91... 489

Estimated Population 1898 16,522

Name of Medical Officer of Health, ROBERT EAGAR, M.D.

| REGISTERED BIRTHS. | | | REGISTERED DEATHS. | | | MORTALITY FROM ALL CAUSES AT SUBJOINED AGES. | | | | | |
|--------------------|----------|--------|--------------------|----------|--------|--|----------------|-----------------|------------------|------------------|-----------------|
| Males. | Females. | Total. | Males. | Females. | Total. | Under 1 year. | 1 and under 5. | 5 and under 15. | 15 and under 25. | 25 and under 65. | 65 and upwards. |
| 230 | 226 | 456 | 128 | 118 | 246 | 74 | 24 | 14 | 11 | 68 | 55 |

MORTALITY FROM SUBJOINED CAUSES.

| Smallpox. | Measles. | Scarlatina. | Diphtheria. | Croup (not "spasmodic"). | Whooping Cough. | CONTINUED FEVERS. | | | Diarrhoea & Dysentery. | Cholera. | Rheumatic Fever. | Erysipelas. | Pyæmia. | Puerperal Fever. | Ague. | Cancer. | Phthisis. | Pneumonia. | Bronchitis & Pleurisy. | Heart Disease. | Injuries. | Other Diseases. |
|-----------|----------|-------------|-------------|--------------------------|-----------------|-------------------|--|--|------------------------|----------|------------------|-------------|---------|------------------|-------|---------|-----------|------------|------------------------|----------------|-----------|-----------------|
| 12 | | | 2 | | | | | | 9 | | 2 | | | | | 1 | 8 | 9 | 40 | 20 | 5 | 138 |

Birth Rate, 27·5.

Death Rate, 14·8.

(a) Zymotic Death Rate, 1·3.

(b) Inf. Mortal, 162.

Phthisis Death Rate, ·4.

Resp. Death Rate, 2·9.

Smallpox Death Rate, 0·0.

Measles Death Rate, ·7.

Scarlatina Death Rate, 0·0.

Diphtheria Death Rate, ·12.

Whooping Cough Death Rate, 0·0.

(c) Fever Death Rate, 0·0.

Diarrhoea Death Rate, ·5.

Cancer Death Rate, ·06.

(a) Includes Smallpox, Measles, Scarlatina, Diphtheria, Whooping Cough, Fever, and Diarrhoea.

(b) Estimated by measuring the proportion of deaths of infants under 1 year per 1,000 of the births registered during the same period.

(c) Including Typhus, Enteric Fever, and indefinite forms of Continued Fevers.

Stourbridge Urban District.

VITAL STATISTICS.

| | Average for the Years 1884 to 1898 in- clusive. | 1898 | 1897 | 1896 | 1895 | 1894 | 1893 | 1892 | 1891 | 1890 | 1889 | 1888 | 1887 | 1886 | 1885 | 1884 |
|--|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Birth Rate per 1,000 of the population - | 30.1 | 27.5 | 28.1 | 27.8 | 29.5 | 28.1 | 31.8 | 31.1 | 34.3 | 29.9 | 28.7 | 26.1 | 3.19 | 34.2 | 30.2 | 32.6 |
| Total Death Rate per 1,000 of the population - | 16.4 | 14.8 | 16.6 | 14.8 | 16.2 | 13.1 | 19.7 | 17.3 | 18.4 | 15.3 | 15.3 | 15.6 | 18.5 | 17.1 | 18.7 | 15.1 |
| Death Rate from the Seven Princi- pal Zymotic Diseases per 1,000 of the population - | 1.4 | 1.3 | 1.7 | 1.3 | .8 | .6 | 1.3 | .1 | .04 | 1.9 | 1.5 | .5 | 1.8 | 2.5 | 1.8 | 2.8 |
| Rate of Infant Mor- tality estimated by measuring the proportion of Children who Died before Attaining 1 Year per 1,000 of the Births Regis- tered during the same period. - | 164 | 162 | 177 | 138 | 153 | 132 | 257 | 180 | 96 | 195 | 156 | | | | | |

CASES OF INFECTIOUS DISEASES.

| | Smallpox. | Measles. | Scarlatina. | Diphtheria. | Membran- ous Croup | Fever. | Erysipelas. | Puerperal Fever. |
|----------------|-----------|----------|-------------|-------------|-----------------------|--------|-------------|---------------------|
| Cases ... | 1 | | 46 | 6 | | 6 | 10 | |
| Deaths ... | | 12 | | 2 | | | | |
| Hospital Cases | | | 2 | | | 2 | | |
| „ Deaths | | | | | | | | |

Diseases prevalent :—Scarlatina.

Period :—All the year.

Schools Closed :—Wollaston Infant School.

Stourbridge Urban District.

Dr. Eagar again reports a satisfactory Death-rate (14·8), and states that the Zymotic-rate (1·3) was due to 12 deaths from Measles. The Infantile Mortality is again high (162); but as a "Health Missioner" has been appointed for Stourbridge, it is hoped it may be reduced in course of time.

From the systematic interviews I have had with the Health Missioner, I am convinced that good work is being carried on; the education of the labouring classes in hygienic matters is however difficult and slow.

Dr. Eagar refers to a want of artisans dwellings, and advises his Council to put the Housing of the Working Classes Act into operation; adding that he is convinced "that if the Council were to build 3-roomed artisans' dwellings they would not lose by the transaction."

Middens are said to be numerous, but w.c.'s are being gradually substituted.

The Bake-houses, Slaughter-houses, Dairies, Cowsheds, Milk-shops are reported to be duly inspected.

Stourport Urban District.

Synopsis of Annual Report.

Area in acres, 1,340.
 Population 1881 ... 3,358.
 „ 1891 ... 4,865.
 Increase 1881-91 ... 1,507.
 Estimated Population 1898 5,336.

Name of Medical Officer of Health, E. STANLEY ROBINSON.

| REGISTERED BIRTHS. | | | REGISTERED DEATHS. | | | MORTALITY FROM ALL CAUSES AT SUBJOINED AGES. | | | | | |
|--------------------|----------|--------|--------------------|----------|--------|--|----------------|-----------------|------------------|------------------|-----------------|
| Males. | Females. | Total. | Males. | Females. | Total. | Under 1 year. | 1 and under 5. | 5 and under 15. | 15 and under 25. | 25 and under 65. | 65 and upwards. |
| 61 | 64 | 125 | 23 | 29 | 52 | 13 | 2 | 2 | 3 | 12 | 20 |

MORTALITY FROM SUBJOINED CAUSES.

| Smallpox. | Measles. | Scarlatina. | Diphtheria. | Croup ("not Spasmodic"). | Whooping Cough. | Typhus. | Enteric or Typhoid. | Other or Doubtful. | CONTINUED FEVERS. | Diarrhoea & Dysentery. | Cholera. | Rheumatic Fever. | Erysipelas. | Pyæmia. | Puerperal Fever. | Ague. | Cancer. | Phthisis. | Pneumonia. | Bronchitis & Pleurisy. | Heart Disease. | Injuries. | Other Diseases. |
|-----------|----------|-------------|-------------|--------------------------|-----------------|---------|---------------------|--------------------|-------------------|------------------------|----------|------------------|-------------|---------|------------------|-------|---------|-----------|------------|------------------------|----------------|-----------|-----------------|
| | | | | | | | | | | | | | | | | | 4 | 5 | 1 | 3 | 6 | | 33 |

- Birth Rate, 23·4.
 (a) Zymotic Death Rate, 0·0.
 Phthisis Death Rate, ·9.
 Smallpox Death Rate, 0·0.
 Scarletina Death Rate, 0·0.
 Whooping Cough Death Rate, 0·0.
 Diarrhoea Death Rate, 0·0.
 Death Rate, 9·7.
 (b) Inf. Mortal 104.
 Resp. Death Rate, ·7.
 Measles Death Rate, 0·0.
 Diphtheria Death Rate, 0·0.
 (c) Fever Death Rate, 0·0.
 Cancer Death Rate, ·7.
- (a) Includes Smallpox, Measles, Scarletina, Diphtheria, Whooping Cough, Fever, and Diarrhoea.
 (b) Estimated by measuring the proportion of deaths of infants under 1 year per 1,000 of the births registered during the same period.
 (c) Including Typhus, Enteric Fever, and indefinite forms of Continued Fevers.

Stourport Urban District.

VITAL STATISTICS.

| | Average for the Years 1889 to 1898 in- clusive. | 1898 | 1897 | 1896 | 1895 | 1894 | 1893 | 1892 | 1891 | 1890 | 1889 | 1888 | 1887 | 1886 | 1885 | 1884 |
|---|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Birth Rate per 1,000 of the population. - | 27.3 | 23.4 | 23.5 | 27.7 | 28.3 | 26.2 | 24.3 | 27.5 | 33.1 | 30.5 | 28.5 | | | | | |
| Total death rate per 1,000 of the population - | 15.6 | 9.7 | 10.6 | 18.1 | 14.3 | 15.7 | 17.5 | 17.7 | 20.1 | 18.4 | 14.4 | | | | | |
| Death Rate from the Seven Princi- pal Zymotic Diseases per 1,000 of the population - | .9 | 0.0 | .2 | 2.8 | .8 | 1.1 | 1.1 | .8 | 1.9 | .8 | .3 | | | | | |
| Rate of Infant Mor- tality estimated by measuring the proportion of Children who Died before Attaining 1 Year per 1,000 of the Births Regis- tered during the same period - | 145 | 104 | 182 | 142 | 118 | 86 | 192 | 183 | 145 | 183 | 120 | | | | | |

CASES OF INFECTIOUS DISEASES.

| | Smallpox. | Measles. | Scarlatina. | Diphtheria. | Membran- ous Croup. | Fever. | Erysipelas. | Whooping Cough. |
|----------------|-----------|----------|-------------|-------------|------------------------|--------|-------------|--------------------|
| Cases ... | | | 18 | 5 | | 6 | 3 | |
| Deaths ... | | | | | | * 1 | | |
| Hospital Cases | | | 12 | | | | | |
| „ Deaths | | | | | | | | |

Diseases prevalent :—Influenza, Whooping Cough.

Period :—January, February, July, August.

Schools Closed —No.

* Occurred outside District.

Stourport Urban District.

Mr. Robinson records the very low Death-rate of 9·7, the average for the years 1889-1898 being 15·6.

The Zymotic-rate was nil.

Scarlet Fever (18 cases) is reported to have been kept in check by prompt removal of the majority of the cases to the Kidderminster Isolation Hospital. 6 cases of Typhoid Fever were reported, and one death occurred.

Mr. Robinson recommends the adoption of pails for the removal of Typhoidal excreta, which is advocated in my Digest of Annual Reports for 1897. He reports that the sewerage scheme is still under consideration, and states, with reference to the wet state of Brindley Street, that "many other sanitary defects await the decision of the Council as to the sewerage scheme." He also says that "the proposal to erect a filter in Bridge Meadow has been abandoned. The site of the filter has been under water for about six weeks lately."

In connection with the erection of this filter, I extract the following from a letter dated 4th August, 1898, addressed by the Clerk of the Stourport Urban District Council to the Clerk of the County Council, viz.:

"I am directed, on behalf of the Council, to state that they hereby undertake to erect a trial filter at the outfall in the Bridge Meadow."

Mr. Robinson mentions that the sewerage scheme for Upper Mitton is being prepared, and adds that "it is not likely such a partial scheme will be permitted by the Local Government Board or the County Council."

Speaking of the excrement disposal, he mentions that the midden system has been, if possible, more disgusting than ever, especially in the hot summer weather.

The Scavenging is reported to be well done, and the Bake-houses and Slaughter-houses are regularly inspected, but it would seem that at the time this Report was presented no regulations for Dairies and Cowsheds had been adopted.

River pollution is said to continue as in former years.

*Bromsgrove Rural District.**Synopsis of Annual Report.*

Area in acres, 38,083.

Population 1881 ... 11,177.
 „ 1891 ... 11,701.

Increase 1881-91 ... 524.

Estimated Population 1898 12,232.

Name of Medical Officer of Health, J. LORD HOBBS.

| REGISTERED BIRTHS. | | | REGISTERED DEATHS. | | | MORTALITY FROM ALL CAUSES AT SUBJOINED AGES. | | | | | |
|--------------------|---------|--------|--------------------|----------|--------|--|----------------|-----------------|------------------|------------------|-----------------|
| Males. | Females | Total. | Males. | Females. | Total. | Under 1 year. | 1 and under 5. | 5 and under 15. | 15 and under 25. | 25 and under 65. | 65 and upwards. |
| 144 | 159 | 303 | 90 | 68 | 158 | 27 | 6 | 5 | 6 | 43 | 71 |

MORTALITY FROM SUBJOINED CAUSES.

| Smallpox. | Measles. | Scarlatina. | Diphtheria. | Croup (not "spasmodic") | Whooping Cough. | CONTINUED FEVERS. | | | Diarrhoea & Dysentery. | Cholera. | Rheumatic Fever. | Erysipelas. | Pyæmia. | Puerperal Fever. | Ague. | Cancer. | Phthisis. | Pneumonia. | Bronchitis & Pleurisy. | Heart Disease. | Injuries. | Other Diseases. |
|-----------|----------|-------------|-------------|-------------------------|-----------------|-------------------|---------------------|--------------------|------------------------|----------|------------------|-------------|---------|------------------|-------|---------|-----------|------------|------------------------|----------------|-----------|-----------------|
| | | | | | | Typhus. | Enteric or Typhoid. | Other or Doubtful. | | | | | | | | | | | | | | |
| | | 1 | 1 | | 2 | | 1 | | 5 | | | 3 | | | | 9 | 16 | 5 | 19 | 16 | 7 | 73 |

Birth Rate, 24·7.

Death Rate 12·9.

(a) Zymotic Death Rate, '7.

(b) Inf. Mortal, 89.

Phthisis Death Rate, 1·3.

Resp. Death Rate, 1·9.

Smallpox Death Rate, 0·0.

Measles Death Rate, 0·0.

Scarlatina Death Rate, '08.

Diphtheria Death Rate, '08.

Whooping Cough Death Rate, '16.

(c) Fever Death Rate, '08.

Diarrhoea Death Rate, '4.

Cancer Death Rate, '7.

(a) Includes Smallpox, Measles, Scarlatina, Diphtheria, Whooping Cough, Fever, and Diarrhoea.

(b) Estimated by measuring the proportion of deaths of infants under 1 year per 1,000 of the births registered during the same period.

(c) Including Typhus, Enteric Fever, and indefinite forms of continued Fevers.

Bromsgrove Rural District.

VITAL STATISTICS.

| | Average for the Years 1884 to 1898 in- clusive. | 1898 | 1897 | 1896 | 1895 | 1894 | 1893 | 1892 | 1891 | 1890 | 1889 | 1888 | 1887 | 1886 | 1885 | 1884 |
|---|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Birth Rate per 1,000 of the population - | 23.9 | 24.7 | 23.3 | 21.8 | 22.1 | 23.6 | 24.5 | 22.8 | 27.0 | 25.5 | 23.8 | | | | | |
| Total Death Rate per 1,000 of the population - | 13.8 | 12.9 | 13.2 | 12.3 | 12.5 | 10.4 | 12.5 | 13.9 | 15.9 | 16.7 | 13.7 | 17.7 | 14.3 | 14.2 | 14.2 | 14.9 |
| Death Rate from the Seven Princi- pal Zymotic Diseases per 1,000 of the population - | 1.0 | .7 | 1.3 | .8 | .4 | .49 | 1.2 | .8 | 1.0 | 1.2 | 1.0 | 2.1 | .8 | 1.6 | .8 | 2.1 |
| Rate of Infant Mor- tality estimated by measuring the proportion of Children who Died before attaining 1 Year per 1,000 of the Births Regis- tered during the same period - | 111 | 89 | 118 | 156 | 114 | 70 | 99 | 99 | 102 | 157 | 114 | | | | | |

CASES OF INFECTIOUS DISEASES.

| | Smallpox. | Measles. | Scarlatina. | Diphtheria. | Membran- ous Croup. | Fever. | Erysipelas. | Puerperal Fever. |
|----------------|-----------|----------|-------------|-------------|------------------------|--------|-------------|---------------------|
| Cases ... | | | 108 | 5 | | 5 | 7 | |
| Deaths ... | | | 1 | 1 | | 1 | 3 | |
| Hospital Cases | | | 25 | | | 1 | | |
| „ Deaths | | | 1 | | | 1 | | |

Diseases prevalent :—Scarlatina.

Period :—Whole year.

Schools Closed :—Cofton, Romsley, Tardebigge, Hagley.

Bromsgrove Rural District.

Mr. Hobbes says that Scarlet Fever has been prevalent during the last three years, and that 70 of the 108 cases occurred in the sub-districts of Alvechurch, Webheath, and Tardebigge.

He mentions that a sewerage scheme for Pedmore is in course of construction, and that the drainage requirements of Blakedown, which was the subject of a Local Government Board inquiry, are still under consideration. The sanitary state of Alvechurch is to be the subject of further investigation.

Mr. Hobbes expresses the hope that before long a considerable part of Clent will be supplied with water from the East Worcestershire Waterworks Company's mains.

The Dairies and Cowsheds in the District are said to be duly inspected.

*Droitwich Rural District.**Synopsis of Annual Report.*

Area in acres, 53,230.

Population 1881 ... 13,737

" 1891 ... 12,949

Decrease 1881-91 ... 788

Estimated Population, 1898 14,300

Name of Medical Officer of Health, HORACE SWETE, M.D., D.P.H.

| REGISTERED BIRTHS. | | | REGISTERED DEATHS. | | | MORTALITY FROM ALL CAUSES AT SUBJOINED AGES. | | | | | |
|--------------------|----------|--------|--------------------|----------|--------|--|----------------|-----------------|------------------|------------------|-----------------|
| Males. | Females. | Total. | Males. | Females. | Total. | Under 1 year. | 1 and under 5. | 5 and under 15. | 15 and under 25. | 25 and under 65. | 65 and upwards. |
| 156 | 171 | 327 | 83 | 96 | 179 | 33 | 19 | 6 | 8 | 45 | 68 |

MORTALITY FROM SUBJOINED CAUSES.

| Smallpox. | Measles. | Scarlatina. | Diphtheria. | Croup (not "spasmodic"). | Whooping Cough. | Typhus. | Enteric or Typhoid. | Other or Doubtful. | Diarrhoea & Dysentery. | Cholera. | Rheumatic Fever. | Erysipelas. | Pyæmia. | Puerperal Fever. | Ague. | Cancer. | Phthisis. | Pneumonia. | Bronchitis & Pleurisy. | Heart Disease. | Injuries. | Other Diseases. |
|-----------|----------|-------------|-------------|--------------------------|-----------------|---------|---------------------|--------------------|------------------------|----------|------------------|-------------|---------|------------------|-------|---------|-----------|------------|------------------------|----------------|-----------|-----------------|
| 4 | 2 | 1 | 7 | | | | | | 1 | | | | | | | 10 | 15 | 2 | 13 | 15 | 8 | 101 |

Birth Rate, 24·2.

Death Rate, 13·3.

(a) Zymotic Death Rate, 1·1.

(b) Inf. Mortal, 100.

Phthisis Death Rate, 1·1.

Resp. Death Rate, 1·1.

Smallpox Death Rate, 0·0.

Measles Death Rate, ·2.

Scarlatina Death Rate, ·14.

Diphtheria Death Rate, ·07.

Whooping Cough Death Rate, ·5.

(c) Fever Death Rate, 0·0.

Diarrhoea Death Rate, ·07.

Cancer Death Rate, ·7.

- (a) Includes Smallpox, Measles, Scarlatina, Diphtheria, Whooping Cough, Fever and Diarrhoea.
- (b) Estimated by measuring the proportion of deaths of infants under 1 year per 1,000 of the births registered during the same period.
- (c) Including Typhus, Enteric Fever, and indefinite forms of Continued Fevers.

Droitwich Rural District.

VITAL STATISTICS.

| | Average for the Years 1884 to 1898 in- clusive. | 1898 | 1897 | 1896 | 1895 | 1894 | 1893 | 1892 | 1891 | 1890 | 1889 | 1888 | 1887 | 1886 | 1885 | 1884 |
|--|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Birth Rate per 1,000 of the population. — | 27.5 | 24.2 | 24.3 | 26.3 | 29.0 | 28.0 | 26.9 | 26.7 | 26.7 | 27.4 | 34.9 | 23.5 | 28.9 | 29.2 | 30.9 | 28.2 |
| Total death rate per 1,000 of the population. — | 14.2 | 13.3 | 14.0 | 13.4 | 15.4 | 10.2 | 13.9 | 14.4 | 17.0 | 14.6 | 13.2 | 13.9 | 15.8 | 14.8 | 13.5 | 11.1 |
| Death Rate from the Seven Princi- pal Zymotic Diseases per 1,000 of the population. — | .9 | 1.1 | 1.0 | 1.0 | 1.6 | .4 | .9 | .4 | .2 | .7 | 1.5 | .5 | 1.0 | 1.2 | .7 | .1 |
| Rate of Infant Mor- tality estimated by measuring the proportion of Children who Died before Attaining 1 Year per 1,000 of the Births Regis- tered during the same period. — | 114 | 100 | 118 | 116 | 95 | 120 | 98 | 78 | 118 | 117 | 81 | 91 | 135 | 102 | 108 | 111 |

CASES OF INFECTIOUS DISEASES.

| | Smallpox. | Measles. | Scarlatina. | Diphtheria. | Membran- ous Croup. | Fever. | Erysipelas. | Puerperal Fever. |
|----------------|-----------|----------|-------------|-------------|------------------------|--------|-------------|---------------------|
| Cases ... | ... | ... | 86 | 13 | ... | 1 | 3 | ... |
| Deaths ... | ... | 4 | 2 | 1 | ... | ... | ... | ... |
| Hospital Cases | ... | ... | 12 | ... | ... | ... | ... | ... |
| „ Deaths | ... | ... | ... | ... | ... | ... | ... | ... |

Diseases prevalent :—Scarlet Fever, Diphtheria, Measles.

Period :—Whole year.

Schools Closed :—Tibberton, Rashwood, Himbleton, Hindlip, Salwarpe, Cutnall Green—Measles; Stock and Bradley, and Broughton—Scarlet Fever,

Droitwich Rural District.

Dr. Swete mentions that the Zymotic-rate (1.1) was due to 4 deaths from Measles, 2 from Scarlet Fever, 1 Diphtheria, 7 Whooping Cough, and 1 Diarrhoea, and that Scarlet Fever was prevalent.

He alludes to the contemplated erection of a permanent Hospital, for which a loan has been asked of the Local Government Board, and states that the Sanitary Bye-laws are now in force.

The question of the drainage of Ombersley is being taken in hand. I have on several occasions conferred with the District Council and Dr. Swete as to the defective drainage of Ombersley, and a Sanitary Engineer is now advising thereon.

The house accommodation of the District generally is reported to be sufficient. The excrement disposal, Bake-houses, Slaughter-houses, Dairies, Cowsheds, and Milkshops all receive due attention.

Of the 21 samples of water submitted to analysis, 12 were reported to be good, and 9 more or less polluted.

Dr. Swete mentions, with regard to Vans and Tents, that "nothing has been done to clear Hartlebury Common from this nuisance, and 10 to 15 tents are generally found on the Common."

The Factories and Workshops are said to be regularly inspected.

*Evesham Rural District.**Synopsis of Annual Report.*

Area in acres, 28,088.

Population 1881 ... 7,091.

,, 1891 ... 7,142.

Increase 1881-91 ... 51

Estimated Population 1898 7,142

Name of Medical Officer of Health, G. H. FOSBROKE, D.P.H., Camb.

| REGISTERED BIRTHS. | | | REGISTERED DEATHS. | | | MORTALITY FROM ALL CAUSES AT SUBJOINED AGES. | | | | | |
|--------------------|----------|--------|--------------------|----------|--------|--|----------------|-----------------|------------------|------------------|-----------------|
| Males. | Females. | Total. | Males. | Females. | Total. | Under 1 year. | 1 and under 5. | 5 and under 15. | 15 and under 25. | 25 and under 65. | 65 and upwards. |
| 100 | 98 | 198 | 64 | 46 | 110 | 20 | 7 | 1 | 4 | 25 | 53 |

MORTALITY FROM SUBJOINED CAUSES.

| Smallpox. | Measles. | Scarlatina. | Diphtheria. | Croup (not "spasmodic"). | Whooping Cough. | CONTINUED FEVERS. | | | Diarrhoea & Dysentery. | Cholera. | Rheumatic Fever. | Erysipelas. | Pyæmia. | Puerperal Fever. | Ague. | Cancer. | Phthisis. | Pneumonia. | Bronchitis & Pleurisy. | Heart Disease. | Injuries. | Other Diseases. |
|-----------|----------|-------------|-------------|--------------------------|-----------------|-------------------|---------------------|--------------------|------------------------|----------|------------------|-------------|---------|------------------|-------|---------|-----------|------------|------------------------|----------------|-----------|-----------------|
| | | | | | | Typhus. | Enteric or Typhoid. | Other or Doubtful. | | | | | | | | | | | | | | |
| | | | | | 4 | | | | 1 | | | | | | | 4 | 3 | 3 | 8 | 17 | 4 | 66 |

Birth Rate, 27·7.

Death Rate, 15·4.

(a) Zymotic Death Rate, ·7.

(b) Inf. Mortal, 101.

Phthisis Death Rate, ·4.

Resp. Death Rate, 1·5.

Smallpox Death Rate, 0·0.

Measles Death Rate, 0·0.

Scarlatina Death Rate, 0·0.

Diphtheria Death Rate, 0·0.

Whooping Cough Death Rate, 0·5.

(c) Fever Death Rate, 0·0.

Diarrhoea Death Rate, ·14.

Cancer Death Rate, ·5.

(a) Includes Smallpox, Measles, Scarlatina, Diphtheria, Whooping Cough, Fever, and Diarrhoea.

(b) Estimated by measuring the proportion of deaths of infants under 1 year per 1,000 of the births registered during the same period.

(c) Including Typhus, Enteric Fever, and indefinite forms of Continued Fevers.

Evesham Rural District.

VITAL STATISTICS.

| | Average for the Years 1889 to 1898 in- clusive. | 1898 | 1897 | 1896 | 1895 | 1894 | 1893 | 1892 | 1891 | 1890 | 1889 | 1888 | 1887 | 1886 | 1885 | 1884 |
|--|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Birth Rate per 1,000 of the population - | 28.7 | 27.7 | 31.7 | 29.1 | 28.9 | 30.5 | 27.7 | 28.7 | 29.2 | 24.6 | 27.2 | | | | | |
| Total Death Rate per 1,000 of the population - | 14.9 | 15.4 | 14.9 | 10.9 | 14.2 | 12.6 | 14.7 | 19.3 | 16.9 | 15.6 | 15.1 | | | | | |
| Death Rate from the Seven Princi- pal Zymotic Diseases per 1,000 of the population - | .6 | .7 | .5 | .8 | .7 | .2 | .1 | 1.9 | .7 | .5 | .4 | | | | | |
| Rate of Infant Mor- tality estimated by measuring the proportion of Children who Died before Attaining 1 Year per 1,000 of the Births Regis- tered during the same period. - | 75 | 101 | 57 | 43 | 82 | 73 | 70 | 113 | 72 | 63 | 83 | | | | | |

CASES OF INFECTIOUS DISEASES.

| | Smallpox. | Measles. | Scarlatina. | Diphtheria. | Membran- ous Croup | Fever. | Erysipelas. | Puerperal Fever. |
|----------------|-----------|----------|-------------|-------------|-----------------------|--------|-------------|---------------------|
| Cases | | | 11 | 7 | | | 8 | |
| Deaths | | | | | | | | |
| Hospital Cases | | | 11 | 7 | | | | |
| „ Deaths | | | 1(a) | 1(a) | | | | |

Diseases prevalent :—

Period :—

Schools Closed :—

(a) These deaths occurred at the Sanatorium and consequently do not appear in your death returns.

Evesham Rural District.

Favourable mortality statistics are recorded. 11 cases of Scarlet Fever and 7 of Diphtheria were notified: all were treated at the Isolation Hospital.

One death was due to each of these diseases, but they are not included in the Vital Statistics, as they occurred at the Sanatorium, which is in the Borough of Evesham.

The question of the origin and treatment of Tuberculosis is dealt with at considerable length.

Drainage improvements have been carried out at South Littleton; but the scheme for sewerage Badsey appears to be hung up, in spite of the fact that the Local Government Board have held an inquiry as to a loan for carrying out the work.

The large expenditure which under present circumstances must necessarily be incurred in connection with the outfall works, has led to the postponement of the work, in the hope that when the Royal Commission on Sewage disposal issue their report, the land requirements of the Local Government Board may be relaxed.

Steps are now being taken to close polluted wells within the area of the Evesham Villages Water scheme, and the Report shows that numbers of house-owners having access to these mains, have voluntarily and readily made use of the facilities offered them. The District is regularly inspected; the Bake-houses, Slaughter-houses and Factories and Workshops are well looked after.

New sanitary bye-laws have facilitated efficient sanitary administration without in any way impeding building operations.

*Feckenham Rural District.**Synopsis of Annual Report.*

| | | | |
|---------------------------|-----|-----|--------|
| Area in acres, 15,193. | | | |
| Population 1881 | ... | ... | 4,580. |
| " 1891 | ... | ... | 5,671. |
| <hr/> | | | |
| Increase 1881-91 | ... | ... | 1,091. |
| Estimated Population 1898 | | | 5,744. |

Name of Medical Officer of Health, G. H. FOSBROKE, D.P.H. CAMB.

| REGISTERED BIRTHS. | | | REGISTERED DEATHS. | | | MORTALITY FROM ALL CAUSES AT SUBJOINED AGES. | | | | | |
|--------------------|----------|--------|--------------------|----------|--------|--|----------------|-----------------|------------------|------------------|-----------------|
| Males. | Females. | Total. | Males. | Females. | Total. | Under 1 year. | 1 and under 5. | 5 and under 15. | 15 and under 25. | 25 and under 65. | 65 and upwards. |
| 56 | 74 | 130 | 33 | 36 | 69 | 10 | 4 | 3 | 2 | 21 | 29 |

MORTALITY FROM SUBJOINED CAUSES.

| Smallpox. | Measles. | Scarlatina. | Diphtheria. | Croup ("not Spasmodic"). | Whooping Cough. | Typhus. | Enteric or Typhoid. | Other or Doubtful. | CONTINUED FEVERS. | Diarrhœa & Dysentery. | Cholera. | Rheumatic Fever. | Erysipelas. | Pyæmia. | Puerperal Fever. | Ague. | Cancer. | Phthisis. | Pneumonia. | Bronchitis & Pleurisy. | Heart Disease. | Injuries. | Other Diseases. |
|-----------|----------|-------------|-------------|--------------------------|-----------------|---------|---------------------|--------------------|-------------------|-----------------------|----------|------------------|-------------|---------|------------------|-------|---------|-----------|------------|------------------------|----------------|-----------|-----------------|
| | | 1 | 1 | | | | | | | 1 | | | | | | | 2 | 4 | 1 | 5 | 7 | 2 | 45 |

- Birth Rate, 22·6. Death Rate, 12·0.
- (a) Zymotic Death Rate, ·5. (b) Inf. Mortal 76.
- Phthisis Death Rate, ·6. Resp. Death Rate, 1·0.
- Smallpox Death Rate, 0·0. Measles Death Rate, 0·0.
- Scarlatina Death Rate, ·17. Diphtheria Death Rate, ·17.
- Whooping Cough Death Rate, 0·0. (c) Fever Death Rate, 0·0.
- Diarrhœa Death Rate, ·17. Cancer Death Rate, ·3.
- (a) Includes Smallpox, Measles, Scarlatina, Diphtheria, Whooping Cough, Fever and Diarrhœa.
- (b) Estimated by measuring the proportion of deaths of infants under 1 year per 1,000 of the births registered during the same period.
- (c) Including Typhus, Enteric Fever, and indefinite forms of Continued Fevers.

Feckenham Rural District.

VITAL STATISTICS.

| | Average for the Years 1889 to 1898 in- clusive. | 1898 | 1897 | 1896 | 1895 | 1894 | 1893 | 1892 | 1891 | 1890 | 1889 | 1888 | 1887 | 1886 | 1885 | 1884 |
|---|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Birth Rate per 1,000 of the population. - | 26.4 | 22.6 | 27.3 | 27.3 | 24.7 | 24.7 | 27.1 | 21.4 | 25.3 | 32.2 | 31.7 | | | | | |
| Total death rate per 1,000 of the population - | 13.5 | 12.0 | 12.1 | 13.2 | 13.4 | 15.1 | 14.4 | 12.8 | 10.7 | 14.7 | 17.5 | | | | | |
| Death Rate from the Seven Princi- pal Zymotic Diseases per 1,000 of the population - | .6 | .5 | .3 | .6 | 0.0 | .3 | 1.2 | .4 | .6 | 1.6 | 1.2 | | | | | |
| Rate of Infant Mor- tality estimated by measuring the proportion of Children who Died before Attaining 1 Year per 1,000 of the Births Regis- tered during the same period - | 112 | 76 | 95 | 95 | 112 | 161 | 115 | 140 | 131 | 141 | 73 | | | | | |

CASES OF INFECTIOUS DISEASES.

| | Smallpox. | Measles. | Scarlatina. | Diphtheria. | Membran- ous Croup. | Fever. | Erysipelas. | Whooping Cough. |
|----------------|-----------|----------|-------------|-------------|------------------------|--------|-------------|--------------------|
| Cases ... | | | 65 | 12 | | | 6 | |
| Deaths ... | | | 1 | 1 | | | | |
| Hospital Cases | | | 60 | | | | | |
| „ Deaths | | | | | | | | |

Diseases prevalent :—

Period :—

Schools Closed : 1

Feckenham Rural District.

Satisfactorily low Vital Statistics are recorded. Scarlet Fever (65 cases, one death) was prevalent in the parish of Feckenham. The local incidence of the disease was entirely due to personal infection. 92 per cent. of the cases were removed to the Sanatorium.

The question of the origin and treatment of Tuberculosis is dealt with at considerable length. It is again shown that the method of disinfection at the Alcester Sanatorium is unsatisfactory, as there is no efficient disinfectant.

The drainage of Crabbs Cross, Hunt End, and Feckenham is shown to be extremely unsatisfactory, but that the matter is "under the consideration of the Council." As this has been the case for a long time past, I would suggest that if the Feckenham Council do not effectively deal with the matter without further delay, you should communicate with them thereon, as there seems to be no doubt that if these villages are to be placed in a satisfactory condition (as indeed they ought to be), it will be necessary to lay down a system of sewers.

I may mention that the Feckenham Parish Council have lately made a representation to the District Council, urging that the matter should be dealt with. The Report of the Surveyor, who has examined the street drains in Feckenham village, proves that they are in a leaking and most insanitary state.

The Slaughter-houses, Common Lodging-houses, Dairies, Cow-sheds and Milkshops, Factories and Workshops are regularly inspected. The much-needed revision in the model bye-laws has just been made.

*Halesowen Rural District.**Synopsis of Annual Report.*

Area in acres, 6,114.

Population 1881 ... 16,264.

" 1891 ... 18,481.

Increase 1881-91 ... 2,217.

Estimated Population 1898 22,551.

Name of Medical Officer of Health, T. BRETT YOUNG.

| REGISTERED BIRTHS. | | | REGISTERED DEATHS. | | | MORTALITY FROM ALL CAUSES AT SUBJOINED AGES. | | | | | |
|--------------------|----------|--------|--------------------|----------|--------|--|----------------|-----------------|------------------|------------------|-----------------|
| Males. | Females. | Total. | Males. | Females. | Total. | Under 1 year. | 1 and under 5. | 5 and under 15. | 15 and under 25. | 25 and under 65. | 65 and upwards. |
| 408 | 419 | 827 | 190 | 171 | 361 | 136 | 72 | 11 | 15 | 73 | 54 |

MORTALITY FROM SUBJOINED CAUSES.

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|---|---|---|---|---|--|------------------------|-----------------------|----|------------------------|----------|------------------|-------------|---------|------------------|-------|---------|-----------|------------|-----------------------|----------------|-----------|-----------------|
| Smallpox. | | | | | | | CONTINUED FEVERS. | | | Diarrhoea & Dysentery. | Cholera. | Rheumatic Fever. | Erysipelas. | Pyæmia. | Puerperal Fever. | Ague. | Cancer. | Phthisis. | Pneumonia. | Bronchitis & Pleurisy | Heart Disease. | Injuries. | Other Diseases. |
| 25 | 9 | 1 | 1 | 1 | 1 | | Enteric or Typhoid. | Other or Doubtful. | 20 | | | | | | 4 | 11 | 12 | 35 | 48 | 19 | 4 | 155 | |

Birth Rate. 36·6.

Death Rate 16·0.

(a) Zymotic Death Rate, 3·4.

(b) Inf. Mortal, 164.

Phthisis Death Rate, ·5.

Resp. Death Rate, 3·6.

Smallpox Death Rate, 0·0.

Measles Death Rate, 1·1.

Scarlatina Death Rate, ·3.

Diphtheria Death Rate, ·04.

Whooping Cough Death Rate, ·48.

(c) Fever Death Rate, ·44.

Diarrhoea Death Rate, ·8.

Cancer Death Rate, ·4.

(a) Includes Smallpox, Measles, Scarlatina, Diphtheria, Whooping Cough, Fever, and Diarrhoea.

(b) Estimated by measuring the proportion of deaths of infants under 1 year per 1,000 of the births registered during the same period.

(c) Including Typhus, Enteric Fever, and indefinite forms of continued Fevers.

Halesowen Rural District.

VITAL STATISTICS.

| | Average for the Years 1884 to 1898 in- clusive. | 1898 | 1897 | 1896 | 1895 | 1894 | 1893 | 1892 | 1891 | 1890 | 1889 | 1888 | 1887 | 1886 | 1885 | 1884 |
|---|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Birth Rate per 1,000 of the population - | 38.9 | 36.6 | 37.5 | 41.2 | 38.7 | 39.0 | 38.3 | 38.9 | 38.7 | 40.9 | 39.9 | | | | | |
| Total Death Rate per 1,000 of the population - | 17.9 | 16.0 | 14.3 | 18.3 | 18.5 | 16.1 | 15.9 | 19.5 | 15.6 | 21.1 | 19.1 | 16.2 | 17.8 | 17.0 | 21.1 | 22.3 |
| Death Rate from the Seven Princi- pal Zymotic Diseases per 1,000 of the population - | 2.3 | 3.4 | 1.3 | 3.6 | 2.8 | 3.2 | 2.2 | 1.2 | 1.2 | 2.8 | 2.9 | 1.8 | 1.3 | 2.3 | 1.0 | 4.4 |
| Rate of Infant Mor- tality estimated by measuring the proportion of Children who Died before Attaining 1 Year per 1,000 of the Births Regis- tered during the same period - | 158 | 164 | 134 | 151 | 164 | 150 | 158 | 172 | 136 | 179 | 176 | | | | | |

CASES OF INFECTIOUS DISEASES.

| | Smallpox. | Measles. | Scarlatina. | Diphtheria. | Membran- ous Croup. | Fever. | Erysipelas. | Puerperal Fever. |
|----------------|-----------|----------|-------------|-------------|------------------------|--------|-------------|---------------------|
| Cases ... | | | 157 | 10 | 1 | 91 | 14 | 5 |
| Deaths ... | | 25 | 9 | 1 | 1 | 6* | | 4 |
| Hospital Cases | | | 29 | | | 29 | | |
| „ Deaths | | | | | | 5 | | |

Diseases prevalent :—Measles, Scarlet Fever, and Enteric Fever.

Period :—Measles, July; Fever, more or less the whole year.

Schools Closed :—Cakemore and Cradley.

* 5 other deaths occurred in the Hospital at Kingswinford.

Halesowen Rural District.

Dr. Brett Young again records unsatisfactory Vital Statistics: the Death-rate for 1898 having amounted to 16.0, the Zymotic-rate to 3.4, and the Infantile Mortality to 164.

These high rates do not appear to be exceptional, inasmuch as the corresponding averages for the years 1884-1898 were 17.9, 2.3, and 158.

The high Zymotic rate of last year (3.4), was due to 25 deaths from Measles, 9 from Scarlet Fever, one from Diphtheria, 11 from Whooping Cough, 6 from Fever, and 20 from Diarrhœa. It does not include 5 other deaths from Typhoid Fever which took place among cases removed to the temporary Isolation Hospital at Kingswinford (Staffordshire).

Scarlet Fever (157 cases, 9 deaths) was prevalent during the whole year; and the type of the disease has latterly increased in severity. Only 29 of these cases were removed to the Hospital.

91 cases of Typhoid Fever were notified, and 11 deaths took place. Closely associated with each, Dr. Young met with filth pollution of the soil, due to the existence of privy middens, and the habit of throwing slop-water over unpaved or imperfectly paved yards in the vicinity of houses.

Dr. Young also particularly calls attention to the evil of allowing large masses of decomposing faecal matter to be stored near houses.

The houses in the populous localities of Halesowen, Hasbury, and Cradley have recently been connected with the sewerage schemes just completed.

The water supply of the District appears to be steadily improving. Long Lane, Hill, and Quinton are shortly to be supplied from the South Staffordshire Waterworks.

Inspection of the District is carried on, and although its sanitary state is as yet far from satisfactory, there is no doubt that it is slowly but surely improving.

The sewerage schemes for Halesowen, Hasbury, and Cradley are approaching completion.

Kidderminster Rural District.

Synopsis of Annual Report.

Area in acres, 32,935.

Population 1881 ... 10,429
 " 1891 ... 9,951

Decrease 1881-91 ... 478

Estimated Population, 1898 10,200

Name of Medical Officer of Health, E. H. ADDENBROOKE.

| REGISTERED BIRTHS. | | | REGISTERED DEATHS. | | | MORTALITY FROM ALL CAUSES AT SUBJOINED AGES. | | | | | |
|--------------------|----------|--------|--------------------|----------|--------|--|----------------|-----------------|------------------|------------------|-----------------|
| Males. | Females. | Total. | Males. | Females. | Total. | Under 1 year. | 1 and under 5. | 5 and under 15. | 15 and under 25. | 25 and under 65. | 65 and upwards. |
| 111 | 121 | 232 | 44 | 66 | 110 | 17 | 3 | 2 | 7 | 29 | 52 |

MORTALITY FROM SUBJOINED CAUSES.

| Smallpox. | Measles. | Scarlatina. | Diphtheria. | Croup (not "spasmodic"). | Whooping Cough. | Typhus. | Enteric or Typhoid. | Other or Doubtful. | Diarrhoea & Dysentery. | Cholera. | Rheumatic Fever. | Erysipelas. | Pyæmia. | Puerperal Fever. | Ague. | Cancer. | Phthisis. | Pneumonia. | Bronchitis & Pleurisy. | Heart Disease. | Injuries. | Other Diseases. |
|-----------|----------|-------------|-------------|--------------------------|-----------------|---------|---------------------|--------------------|------------------------|----------|------------------|-------------|---------|------------------|-------|---------|-----------|------------|------------------------|----------------|-----------|-----------------|
| | | | | | 1 | | 1 | | 3 | | 1 | | | | | 8 | 8 | 2 | 10 | 16 | 7 | 53 |

- Birth Rate, 22·7. Death Rate, 10·7.
 (a) Zymotic Death Rate, '4. (b) Inf. Mortal, 73.
 Phthisis Death Rate, '7. Resp. Death Rate, 1·9.
 Smallpox Death Rate, 0·0. Measles Death Rate, 0·0.
 Scarletina Death Rate, 0·0. Diphtheria Death Rate, 0·0.
 Whooping Cough Death Rate, '09. (c) Fever Death Rate, '09.
 Diarrhoea Death Rate, '29. Cancer Death Rate, '7.

- (a) Includes Smallpox, Measles, Scarletina, Diphtheria, Whooping Cough, Fever and Diarrhoea.
 (b) Estimated by measuring the proportion of deaths of infants under 1 year per 1,000 of the births registered during the same period.
 (c) Including Typhus, Enteric Fever, and indefinite forms of Continued Fevers.

Kidderminster Rural District.

VITAL STATISTICS.

| | Average for the Years 1889 to 1898 in- clusive. | 1898 | 1897 | 1896 | 1895 | 1894 | 1893 | 1892 | 1891 | 1890 | 1889 | 1888 | 1887 | 1886 | 1885 | 1884 |
|--|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Birth Rate per 1,000 of the population. - | 23.9 | 22.7 | 20.8 | 25.4 | 25.0 | 24.2 | 26.3 | 22.8 | 24.7 | 23.6 | 23.9 | | | | | |
| Total death rate per 1,000 of the population. - | 13.1 | 10.7 | 11.4 | 11.1 | 13.2 | 13.5 | 15.8 | 15.8 | 14.4 | 12.3 | 13.1 | | | | | |
| Death Rate from the Seven Princi- pal Zymotic Diseases per 1,000 of the population. - | .8 | .4 | .8 | .9 | 1.0 | 1.1 | 1.4 | .8 | .7 | .5 | .8 | | | | | |
| Rate of Infant Mor- tality estimated by measuring the proportion of Children who Died before Attaining 1 Year per 1,000 of the Births Regis- tered during the same period. - | 116 | 73 | 136 | 106 | 118 | 116 | 108 | 162 | 121 | 105 | 116 | | | | | |

CASES OF INFECTIOUS DISEASES.

| | Smallpox. | Measles. | Scarlatina. | Diphtheria. | Membran- ous Croup. | Fever. | Erysipelas. | Puerperal Fever. |
|----------------|-----------|----------|-------------|-------------|------------------------|--------|-------------|---------------------|
| Cases | | | 9 | 7 | | 6 | 21 | |
| Deaths | | | | | | 1 | | |
| Hospital Cases | | | 3 | | | | | |
| „ Deaths | | | | | | | | |

Diseases prevalent :—Measles.

Period :—January and April.

Schools Closed :—Stone and Harvington.

Kidderminster Rural District.

Dr. Addenbrooke records low Mortality Statistics, and shows that the District, with the exception of Stone and Harvington, has been comparatively free from infectious disease.

He refers to the Special Report he made on Somerleyton Avenue, and adds that—

“The Inspector keeps a vigilant eye upon the dumbwells and drains in this spot, and several dumbwells have been removed further from the dwellings or reconstructed; but the dangerous soakage from these dumbwells into the soil of the tiny gardens, close to the houses, still goes on, and I trust you will deal with the matter before the warm weather comes again. I hope also that the day is not far distant when the drainage of Sutton Common will be connected with the Borough mains, and a proper system provided at Wribbenhall for the disposal of sewage and house refuse.”

He also says, with regard to Wribbenhall, that he hopes the need of a water supply will not be lost sight of.

The Slaughter-houses, Bake-houses, and Dairies and Cowsheds have been systematically inspected.

Dr. Addenbrooke closes his Report with the following statement,

“Bearing in mind the exceptions to which I have specially referred, I consider the district is at the present time, and has been during the year, in a good sanitary condition, and the health of the inhabitants very satisfactory.”

*Martley Rural District.**Synopsis of Annual Report.*

Area in acres, 59,169.

Population 1881 ... 12,450.

" 1891 ... 13,133.

Increase 1881-91 ... 683

Estimated Population 1898 13,133

Name of Medical Officer of Health, G. E. HYDE.

| REGISTERED BIRTHS. | | | REGISTERED DEATHS. | | | MORTALITY FROM ALL CAUSES AT SUBJOINED AGES. | | | | | |
|--------------------|----------|--------|--------------------|----------|--------|--|----------------|-----------------|------------------|------------------|-----------------|
| Males. | Females. | Total. | Males. | Females. | Total. | Under 1 year. | 1 and under 5. | 5 and under 15. | 15 and under 25. | 25 and under 65. | 65 and upwards. |
| 182 | 163 | 345 | 101 | 87 | 188 | 31 | 12 | 8 | 10 | 53 | 74 |

MORTALITY FROM SUBJOINED CAUSES.

| Smallpox. | Measles. | Scarlatina. | Diphtheria. | Croup (not "spasmodic"). | Whooping Cough. | CONTINUED FEVERS. | | | Diarrhoea & Dysentery. | Cholera. | Rheumatic Fever. | Erysipelas. | Pyæmia. | Puerperal Fever. | Ague. | Cancer. | Phthisis. | Pneumonia. | Bronchitis & Pleurisy. | Heart Disease. | Injuries. | Other Diseases. |
|-----------|----------|-------------|-------------|--------------------------|-----------------|-------------------|---------------------|--------------------|------------------------|----------|------------------|-------------|---------|------------------|-------|---------|-----------|------------|------------------------|----------------|-----------|-----------------|
| | 3 | 3 | 2 | | | | Enteric or Typhoid. | Other or Doubtful. | | | | | | | | 6 | 16 | 5 | 16 | 19 | 10 | 105 |

Birth Rate, 26·2.

Death Rate, 14·3.

(a) Zymotic Death Rate, '8.

(b) Inf. Mortal, 89.

Phthisis Death Rate, 1'2.

Resp. Death Rate, 1'6.

Smallpox Death Rate, 0'0.

Measles Death Rate, '2.

Scarlatina Death Rate, '07.

Diphtheria Death Rate, '15.

Whooping Cough Death Rate, 0'0.

(c) Fever Death Rate, '07.

Diarrhoea Death Rate, '15.

Cancer Death Rate, '46.

(a) Includes Smallpox, Measles, Scarlatina, Diphtheria, Whooping Cough, Fever, and Diarrhoea.

(b) Estimated by measuring the proportion of deaths of infants under 1 year per 1,000 of the births registered during the same period.

(c) Including Typhus, Enteric Fever, and indefinite forms of Continued Fevers.

Martley Rural District.

VITAL STATISTICS.

| | Average for the Years 1884 to 1893 in- clusive. | 1898 | 1897 | 1896 | 1895 | 1894 | 1893 | 1892 | 1891 | 1890 | 1889 | 1888 | 1887 | 1886 | 1885 | 1884 |
|--|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Birth Rate per 1,000 of the population - | 27.3 | 26.2 | 27.2 | 26.3 | 26.0 | 27.9 | 25.8 | 26.5 | 26.6 | 25.6 | 28.1 | 29.4 | 27.4 | 29.7 | 28.3 | 28.9 |
| Total Death Rate per 1,000 of the population - | 15.5 | 14.3 | 14.3 | 13.3 | 14.5 | 16.8 | 11.5 | 18.4 | 17.1 | 15.8 | 12.5 | 15.7 | 15.1 | 17.5 | 18.9 | 17.6 |
| Death Rate from the Seven Princi- pal Zymotic Diseases per 1,000 of the population - | .7 | .8 | .4 | .6 | .9 | .6 | 1.0 | .7 | 1.0 | .5 | .5 | .1 | .4 | 1.0 | 1.4 | .9 |
| Rate of Infant Mor- tality estimated by measuring the proportion of Children who Died before Attaining 1 Year per 1,000 of the Births Regis- tered during the same period. - | 105 | 89 | 123 | 92 | 120 | 92 | 115 | 128 | 137 | 102 | 98 | 96 | 80 | 102 | 111 | 106 |

CASES OF INFECTIOUS DISEASES.

| | Smallpox. | Measles. | Scarlatina. | Diphtheria. | Membran- eous Croup | Fever. | Erysipelas. | Puerperal Fever. |
|----------------|-----------|----------|-------------|-------------|------------------------|--------|-------------|---------------------|
| Cases ... | ... | ... | 70 | 15 | ... | 2 | 7 | 1 |
| Deaths ... | ... | 3 | 3 | 2 | ... | 1 | ... | ... |
| Hospital Cases | ... | ... | 5 | 4 | ... | ... | ... | ... |
| „ Deaths | ... | ... | 2 | ... | ... | ... | ... | ... |

Diseases prevalent :—Measles and Scarlet Fever.

Period :—January to March.

Schools Closed :—Four (3 on account of Measles and 1 Scarlatina.

NOTE.—Two of the deaths from Scarlatina were cases in Malvern Isolation Hospital, which is in this District,

Martley Rural District.

Mr. Hyde states that "the sanitary state of the District continues, as for so many years past, to be satisfactory, and mentions that the Martley Council have made arrangements with the Worcester and Kidderminster Corporations for the treatment of those infectious disease cases arising in the Martley District, which much need isolating.

Measles was epidemic in several parishes. Of the 70 cases (3 deaths) of Scarlet Fever notified, 30 occurred in one parish, and it is noteworthy that only 5 of them were removed to Hospital.

The house accommodation is reported to be generally satisfactory.

Details of the Sanitary work carried out by the Sanitary Inspectors are given.

*Newent Rural District.**Synopsis of Annual Report.*

Area in acres, 5,305.

Population 1881 ... 1,413.

" 1891 ... 1,308.

Decrease 1881-91 ... 105.

Estimated Population 1898 1,308.

Name of Medical Officer of Health, WM. NORRIS MARSHALL.

| REGISTERED BIRTHS. | | | REGISTERED DEATHS. | | | MORTALITY FROM ALL CAUSES AT SUBJOINED AGES. | | | | | |
|--------------------|----------|--------|--------------------|----------|--------|--|----------------|-----------------|------------------|------------------|-----------------|
| Males. | Females. | Total. | Males. | Females. | Total. | Under 1 year. | 1 and under 5. | 5 and under 15. | 15 and under 25. | 25 and under 65. | 65 and upwards. |
| 18 | 11 | 29 | 6 | 13 | 19 | | 2 | | | 6 | 11 |

MORTALITY FROM SUBJOINED CAUSES.

| Smallpox. | Measles. | Scarlatina. | Diphtheria. | Croup ("not Spasmodic"). | Whooping Cough. | Typhus. | Enteric or Typhoid. | Other or Doubtful. | Diarrhoea & Dysentery. | Cholera. | Rheumatic Fever. | Erysipelas. | Pyæmia. | Puerperal Fever. | Ague. | Cancer. | Phthisis. | Pneumonia. | Bronchitis & Pleurisy. | Heart Disease. | Injuries. | Other Diseases. |
|-----------|----------|-------------|-------------|--------------------------|-----------------|---------|---------------------|--------------------|------------------------|----------|------------------|-------------|---------|------------------|-------|---------|-----------|------------|------------------------|----------------|-----------|-----------------|
| | | | | | | | | | | | | | | | | | 2 | 1 | 1 | 5 | | 10 |

Birth Rate, 22·1.

Death Rate, 14·5.

(a) Zymotic Death Rate, 0·0.

(b) Inf. Mortal 0·0.

Phthisis Death Rate, 1·5.

Resp. Death Rate, 1·5.

Smallpox Death Rate, 0·0.

Measles Death Rate, 0·0.

Scarlatina Death Rate, 0·0.

Diphtheria Death Rate, 0·0.

Whooping Cough Death Rate, 0·0. (c) Fever Death Rate, 0·0.

Diarrhoea Death Rate, 0·0.

Cancer Death Rate, 0·0.

(a) Includes Smallpox, Measles, Scarlatina, Diphtheria, Whooping Cough, Fever and Diarrhoea.

(b) Estimated by measuring the proportion of deaths of infants under 1 year per 1,000 of the births registered during the same period.

(c) Including Typhus, Enteric Fever, and indefinite forms of Continued Fevers.

Newent Rural District.

VITAL STATISTICS.

| | Average for the Years 1889 to 1898 in- clusive. | 1898 | 1897 | 1896 | 1895 | 1894 | 1893 | 1892 | 1891 | 1890 | 1889 | 1888 | 1887 | 1886 | 1885 | 1884 |
|---|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Birth Rate per 1,000 of the population. - | 27'9 | 22'1 | 19'9 | 33'5 | 35'7 | 15'2 | 33'7 | 37'4 | 28'2 | 25'0 | 29'0 | | | | | |
| Total death rate per 1,000 of the population - | 17'1 | 14'5 | 20'6 | 10'0 | 15'3 | 9'9 | 21'4 | 25'2 | 24'6 | 11'3 | 18'4 | | | | | |
| Death Rate from the Seven Princip- al Zymotic Diseases per 1,000 of the population - | '2 | 0'0 | 0'0 | 0'0 | '7 | 0'0 | 0'0 | '7 | 1'5 | 0'0 | 0'0 | | | | | |
| Rate of Infant Mor- tality estimated by measuring the proportion of Children who Died before Attaining 1 Year per 1,000 of the Births Regis- tered during the same period - | 118 | 0'0 | 346 | 77 | 66 | 100 | 45 | 143 | 162 | 100 | 150 | | | | | |

CASES OF INFECTIOUS DISEASES.

| | Smallpox. | Measles. | Scarlatina. | Diphtheria. | Membran- eous Croup. | Fever. | Erysipelas. | Whooping Cough. |
|----------------|-----------|----------|-------------|-------------|-------------------------|--------|-------------|--------------------|
| Cases ... | | | | | | 1 | | |
| Deaths ... | | | | | | | | |
| Hospital Cases | | | | | | | | |
| „ Deaths | | | | | | | | |

Diseases prevalent :—None.

Period :—

Schools Closed :—None.

Newent Rural District.

This District only includes the parishes of Redmarley D'Abitot, and Staunton.

Dr. Marshall reports favourable Mortality Statistics, and states that the general condition of the District has been "very satisfactory indeed."

*Pershore Rural District.**Synopsis of Annual Report.*

| | | | |
|---------------------------|---------|-----|---------|
| Area in acres, 53,728. | | | |
| Population 1881 | ... | ... | 13,560. |
| " 1891 | ... | ... | 13,086. |
| <hr/> | | | |
| Decrease 1881-91 | ... | ... | 474 |
| Estimated Population 1898 | 13,086. | | |

Name of Medical Officer of Health, G. H. FOSBROKE, D.P.H. CAMB.

| REGISTERED BIRTHS. | | | REGISTERED DEATHS. | | | MORTALITY FROM ALL CAUSES AT SUBJOINED AGES. | | | | | |
|--------------------|----------|--------|--------------------|----------|--------|--|----------------|-----------------|------------------|------------------|-----------------|
| Males. | Females. | Total. | Males. | Females. | Total. | Under 1 year. | 1 and under 5. | 5 and under 15. | 15 and under 25. | 25 and under 65. | 65 and upwards. |
| 182 | 176 | 358 | 97 | 108 | 205 | 32 | 8 | 9 | 9 | 58 | 89 |

MORTALITY FROM SUBJOINED CAUSES.

| | | | | | | | | | | | | | | | | | | | | | | |
|-----------|--|--|--|--|--|----------------------|--|--|------------------------|----------|------------------|-------------|---------|------------------|-------|---------|-----------|------------|---------------------|----------------|-----------|-----------------|
| Smallpox. | | | | | | CONTINUED FEVERS. | | | Diarrhoea & Dysentery. | Cholera. | Rheumatic Fever. | Erysipelas. | Pyæmia. | Puerperal Fever. | Ague. | Cancer. | Phthisis. | Pneumonia. | Bronchitis&Pleurisy | Heart Disease. | Injuries. | Other Diseases. |
| 1 | | | | | | | | | | | | 1 | | 1 | 16 | 10 | 6 | 25 | 38 | 13 | 93 | |
| 1 | | | | | | | | | | | | | | | | | | | | | | |
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Birth Rate. 27·3.

Death Rate 15·6.

(a) Zymotic Death Rate, '07.

(b) Inf. Mortal, 89.

Phthisis Death Rate, '7.

Resp. Death Rate, 2·3.

Smallpox Death Rate, 0·0.

Measles Death Rate, '07.

Scarlatina Death Rate, 0·0.

Diphtheria Death Rate, 0·0.

Whooping Cough Death Rate, 0·0.

(c) Fever Death Rate, 0·0.

Diarrhoea Death Rate, 0·0.

Cancer Death Rate, 1·2.

(a) Includes Smallpox, Measles, Scarlatina, Diphtheria, Whooping Cough, Fever, and Diarrhoea.

(b) Estimated by measuring the proportion of deaths of infants under 1 year per 1,000 of the births registered during the same period.

(c) Including Typhus, Enteric Fever, and indefinite forms of continued Fevers.

Pershore Rural District.

VITAL STATISTICS.

| | Average for the Years 1889 to 1898 in- clusive. | 1898 | 1897 | 1896 | 1895 | 1894 | 1893 | 1892 | 1891 | 1890 | 1889 | 1888 | 1887 | 1886 | 1885 | 1884 |
|---|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Birth Rate per 1,000 of the population - | 26.5 | 27.3 | 26.8 | 24.6 | 27.9 | 26.8 | 25.9 | 26.6 | 26.2 | 29.5 | 23.9 | | | | | |
| Total Death Rate per 1,000 of the population - | 15.8 | 15.6 | 16.4 | 13.6 | 18.4 | 14.2 | 14.2 | 20.4 | 17.7 | 16.4 | 11.5 | | | | | |
| Death Rate from the Seven Princi- pal Zymotic Diseases per 1,000 of the population - | .4 | .07 | .08 | .04 | .03 | .04 | .05 | .08 | .06 | .03 | .03 | | | | | |
| Rate of Infant Mor- tality estimated by measuring the proportion of Children who Died before Attaining 1 Year per 1,000 of the Births Regis- tered during the same period - | 105 | 89 | 105 | 121 | 114 | 113 | 118 | 124 | 117 | 72 | 80 | | | | | |

CASES OF INFECTIOUS DISEASES.

| | Smallpox. | Measles. | Scarlatina. | Diphtheria. | Membran- ous Croup. | Fever. | Erysipelas. | Puerperal Fever. |
|----------------|-----------|----------|-------------|-------------|------------------------|--------|-------------|---------------------|
| Cases ... | | | 137 | 3 | | 1 | 14 | 1 |
| Deaths ... | | 1 | | | 1 | | 1 | 1 |
| Hospital Cases | | | 134 | | | | | |
| „ Deaths | | | | | | | | |

Diseases prevalent :—

Period :—

Schools Closed :—

Pershore Rural District.

The Death-rate for 1898 (15.6) is slightly below the average (15.8), and the Zymotic-rate was very low, .07.

Measles was so prevalent in five parishes that closing of the local schools became necessary. Scarlet Fever was also prevalent (137 cases), and especially so during the months of July, September, October, and November, and consequently 4 schools were closed.

No less than 97.7 per cent. of the cases were removed for treatment at the Isolation Hospital tents.

Attention is specially called to the origin and prevention of Tuberculosis.

The Local Government Board Inquiry, with regard to the application for a loan made by the Upton-on-Severn and Pershore Joint Hospital Board, was held on 14th February, 1899, but at the present time (July, 1898), the Board have not, so far as I know, given their decision.

In consequence of the sewerage scheme for Pershore being still "under consideration," the County Council communicated with the District Council on 19th May, 1899, urging them to proceed with the matter.

The unsatisfactory water supply of Pinvin, Bricklehampton, and Pershore still continues, as the Authority have not yet decided whether they can obtain water from Elmley.

The Bake-houses, Slaughter-houses, Dairies, Cowsheds, and Milkshops and Workshops are regularly inspected. The bye-laws with respect to Nuisances, New Streets, and Buildings, Slaughter-houses, and Common Lodging-houses have just come into force.

Rock Rural District.

Synopsis of Annual Report.

Area in acres, 13,314.

Population 1881 2,163

" 1891 2,252

Increase 1881-91 89

Estimated Population, 1898 2,290

Name of Medical Officer of Health, E. T. WHITAKER.

| REGISTERED BIRTHS. | | | REGISTERED DEATHS. | | | MORTALITY FROM ALL CAUSES AT SUBJOINED AGES. | | | | | |
|--------------------|----------|--------|--------------------|----------|--------|--|----------------|-----------------|------------------|------------------|-----------------|
| Males. | Females. | Total. | Males. | Females. | Total. | Under 1 year. | 1 and under 5. | 5 and under 15. | 15 and under 25. | 25 and under 65. | 65 and upwards. |
| 30 | 27 | 57 | 14 | 13 | 27 | 5 | 4 | 1 | 1 | 4 | 12 |

MORTALITY FROM SUBJOINED CAUSES.

| Smallpox. | Measles. | Scarlatina. | Diphtheria. | Croup (not "spasmodic"). | Whooping Cough. | Typhus. | Enteric or Typhoid. | Other or Doubtful. | CONTINUED FEVERS. | Diarrhoea & Dysentery. | Cholera. | Rheumatic Fever. | Erysipelas. | Pyæmia. | Puerperal Fever. | Ague. | Cancer. | Phthisis. | Pneumonia. | Bronchitis & Pleurisy. | Heart Disease. | Injuries. | Other Diseases. |
|-----------|----------|-------------|-------------|--------------------------|-----------------|---------|---------------------|--------------------|-------------------|------------------------|----------|------------------|-------------|---------|------------------|-------|---------|-----------|------------|------------------------|----------------|-----------|-----------------|
| | | | | | | | | | | 2 | | | | | | | | | 4 | 4 | 5 | 1 | 11 |

Birth Rate, 20·4.

Death Rate, 12·6 (d).

(a) Zymotic Death Rate, 0·8.

(b) Inf. Mortal, 87.

Phthisis Death Rate, 0·0.

Resp. Death Rate, 3·4.

Smallpox Death Rate, 0·0.

Measles Death Rate, 0·0.

Scarlatina Death Rate, 0·0.

Diphtheria Death Rate, 0·0.

Whooping Cough Death Rate, 0·0.

Diarrhoea Death Rate, ·8.

(c) Fever Death Rate, 0·0.

Cancer Death Rate, 0·0.

(a) Includes Smallpox, Measles, Scarlatina, Diphtheria, Whooping Cough, Fever and Diarrhoea.

(b) Estimated by measuring the proportion of deaths of infants under 1 year per 1,000 of the births registered during the same period.

(c) Including Typhus, Enteric Fever, and indefinite forms of Continued Fevers.

(d) Excluding deaths in persons not belonging to the District.

Rock Rural District.
VITAL STATISTICS.

| | Average for the Years 1889 to 1898 in- clusive. | 1898 | 1897 | 1896 | 1895 | 1894 | 1893 | 1892 | 1891 | 1890 | 1889 | 1888 | 1887 | 1886 | 1885 | 1884 |
|--|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Birth Rate per 1,000 of the population. — | 26.6 | 20.4 | 21.4 | 26.4 | 27.5 | 31.9 | 27.9 | 29.0 | 28.3 | 26.3 | 27.3 | | | | | |
| Total death rate per 1,000 of the population. — | 15.5 | 12.6 | 16.6 | 15.8 | 7.5 | 14.5 | 15.9 | 12.9 | 25.8 | 18.1 | 15.8 | | | | | |
| Death Rate from the Seven Princi- pal Zymotic Diseases per 1,000 of the population. — | 1.2 | .8 | 1.3 | .4 | 0.0 | .4 | 2.6 | .9 | 3.7 | .9 | 1.2 | | | | | |
| Rate of Infant Mor- tality estimated by measuring the proportion of Children who Died before Attaining 1 Year per 1,000 of the Births Regis- tered during the same period. — | 96 | 87 | 183 | 83 | 0.0 | 69 | 80 | 178 | 100 | 90 | 98 | | | | | |

CASES OF INFECTIOUS DISEASES.

| | Smallpox. | Measles. | Scarlatina. | Diphtheria. | Membran- ous Croup. | Fever. | Erysipelas. | Puerperal Fever. |
|----------------|-----------|----------|-------------|-------------|------------------------|--------|-------------|---------------------|
| Cases | | | 5 | | | 1 | 2 | |
| Deaths | | | | | | | | |
| Hospital Cases | | | | | | | | |
| „ Deaths | | | | | | | | |

Diseases prevalent :—

Period :—

Schools Closed :—

Rock Rural District.

Dr. Whitaker mentions that the Vital Statistics do not call for any comment, and that there was little infectious disease in the District during the year. He also adds that the general sanitary condition of the District also calls for very little comment.

In his Annual Report for 1897, Dr. Whitaker mentioned that the village of Mable was said to suffer from want of effective drainage. The County Council consequently communicated with the Clerk of the Rural District Council upon the matter, who replied that the sewer in the village was in need of repair, and the Council hoped to remedy this without unnecessary delay.

*Shipston-on-Stour Rural District.**Synopsis of Annual Report.*

Area in acres, 18,466.

Population 1881 ... 4,988.

" 1891 ... 5,187.

Increase 1881-91 ... 199

Estimated Population 1898 5,016

Name of Medical Officer of Health, GEORGE FINDLAY, M.A., M.B.

| REGISTERED BIRTHS. | | | REGISTERED DEATHS. | | | MORTALITY FROM ALL CAUSES AT SUBJOINED AGES. | | | | | |
|--------------------|----------|--------|--------------------|----------|--------|--|----------------|-----------------|------------------|------------------|-----------------|
| Males. | Females. | Total. | Males. | Females. | Total. | Under 1 year. | 1 and under 5. | 5 and under 15. | 15 and under 25. | 25 and under 65. | 65 and upwards. |
| 56 | 48 | 104 | 43 | 48 | 91 | 19 | 5 | 2 | 1 | 23 | 41 |

MORTALITY FROM SUBJOINED CAUSES.

| | | | | | | | | | | | | | | | | | | | | | | | |
|----|---------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | Smallpox. | | | | | | | | | | | | | | | | | | | | | | |
| | Measles. | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Scarlatina. | | | | | | | | | | | | | | | | | | | | | | |
| | Diphtheria. | | | | | | | | | | | | | | | | | | | | | | |
| | Croup (not "spasmodic"). | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Whooping Cough. | | | | | | | | | | | | | | | | | | | | | | |
| | Typhus. | | | | | | | | | | | | | | | | | | | | | | |
| | Enteric or Typhoid. | | | | | | | | | | | | | | | | | | | | | | |
| | Other or Doubtful. | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Diarrhoea & Dysentery. | | | | | | | | | | | | | | | | | | | | | | |
| | Cholera. | | | | | | | | | | | | | | | | | | | | | | |
| | Rheumatic Fever. | | | | | | | | | | | | | | | | | | | | | | |
| | Erysipelas. | | | | | | | | | | | | | | | | | | | | | | |
| | Pyæmia. | | | | | | | | | | | | | | | | | | | | | | |
| | Puerperal Fever. | | | | | | | | | | | | | | | | | | | | | | |
| | Ague. | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Cancer. | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Phthisis. | | | | | | | | | | | | | | | | | | | | | | |
| 10 | { Pneumonia. Bronchitis & Pleurisy | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Heart Disease. | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Injuries. | | | | | | | | | | | | | | | | | | | | | | |
| 61 | Other Diseases. | | | | | | | | | | | | | | | | | | | | | | |

Birth Rate, 20·8.

Death Rate, 16·6 (*d*).

(a) Zymotic Death Rate, 1·0.

(b) Inf. Mortal, 182.

Phthisis Death Rate, ·9.

Resp. Death Rate, 2·0.

Smallpox Death Rate, 0·0.

Measles Death Rate, 0·0.

Scarlatina Death Rate, ·2.

Diphtheria Death Rate, 0·0.

Whooping Cough Death Rate, ·6.

(c) Fever Death Rate, 0·0.

Diarrhoea Death Rate, ·2.

Cancer Death Rate, ·9.

(a) Includes Smallpox, Measles, Scarlatina, Diphtheria, Whooping Cough, Fever, and Diarrhoea.

(b) Estimated by measuring the proportion of deaths of infants under 1 year per 1,000 of the births registered during the same period.

(c) Including Typhus, Enteric Fever, and indefinite forms of Continued Fevers.

(d) Does not include 8 deaths in Workhouse among persons not belonging to the District.

Shipston-on-Stour Rural District.

VITAL STATISTICS.

| | Average for the Years 1889 to 1898 in- clusive. | 1898 | 1897 | 1896 | 1895 | 1894 | 1893 | 1892 | 1891 | 1890 | 1889 | 1888 | 1887 | 1886 | 1885 | 1884 |
|--|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Birth Rate per 1,000 of the population - | 24.6 | 20.8 | 25.0 | 24.0 | 26.3 | 21.4 | 26.5 | 26.0 | 26.1 | 25.3 | 25.0 | | | | | |
| Total Death Rate per 1,000 of the population - | 15.0 | 16.6 | 16.9 | 18.0 | 15.7 | 13.1 | 12.5 | 17.2 | 15.8 | 12.2 | 12.8 | | | | | |
| Death Rate from the Seven Princi- pal Zymotic Diseases per 1,000 of the population - | .8 | 1.0 | 1.9 | .9 | .4 | .2 | .6 | 1.0 | 1.1 | .4 | 1.2 | | | | | |
| Rate of Infant Mor- tality estimated by measuring the proportion of Children who Died before Attaining 1 Year per 1,000 of the Births Regis- tered during the same period. - | 97 | 182 | 94 | 115 | 88 | 70 | 48 | 118 | 81 | 95 | 88 | | | | | |

CASES OF INFECTIOUS DISEASES.

| | Smallpox. | Measles. | Scarlatina. | Diphtheria. | Membran- eous Croup | Fever. | Erysipelas. | Puerperal Fever. |
|----------------|-----------|----------|-------------|-------------|------------------------|--------|-------------|---------------------|
| Cases ... | | | 90 | 3 | | | 2 | |
| Deaths ... | | | 1 | | | | | |
| Hospital Cases | | | 22 | | | | | |
| „ Deaths | | | | | | | | |

Diseases prevalent :—Scarlatina.

Period :—

Schools Closed :—Blockley (3 times).

Shipston-on-Stour Rural District.

Dr. Findlay shows that the Infantile Mortality for 1898 (182) was high, but this appears to be exceptional, as the average for the years 1889-98 is but 97.

A serious outbreak of Scarlet Fever occurred at Blockley (90 cases), and was evidently due to a lack of proper means for isolating the earlier cases. It was suppressed by fitting up a disused old silk mill as an emergency Hospital.

This outbreak is a striking illustration of the need for local Authorities to possess facilities for the treatment of infectious cases *immediately they arise*.

Schemes of sewerage and water supply for the town of Shipston-on-Stour have been submitted to the Local Government Board for approval; owing to local circumstances these are necessarily of a most expensive character, the total expenditure involved being almost double the rateable value of the District. It is not surprising, therefore, that the Board have not yet decided what action is to be taken.

Dr. Findlay mentions that the water supplies of Armscott, Blackwell, and Darlingscott are unsatisfactory, many of the wells being impregnated with saline matter, and subject to surface pollution.

Sewerage improvements have been carried out at Paxford, Tredington, Armscott, and Darlingscott.

Dr. Findlay again mentions that bye-laws are needed, and as he made a similar statement in his former Annual Report, I commend this to your consideration. Negotiations are said to be going on with a view to the extension of a house which the Council have leased for hospital purposes. It is hoped that these buildings may ultimately serve as a joint hospital for the Shipston-on-Stour (Worcestershire) and Brailes (Warwickshire) Districts.

*Stow-on-the-Wold Rural District.**Synopsis of Annual Report.*

Area in acres, 2,289.

Population 1881 ... 382.

" 1891 ... 337.

Decrease 1881-91 ... 45.

Estimated Population 1898 337.

Name of Medical Officer of Health, EDWIN DENING.

| REGISTERED BIRTHS. | | | REGISTERED DEATHS. | | | MORTALITY FROM ALL CAUSES-AT SUBJOINED AGES. | | | | | |
|--------------------|----------|--------|--------------------|----------|--------|--|----------------|-----------------|------------------|------------------|-----------------|
| Males. | Females. | Total. | Males. | Females. | Total. | Under 1 year. | 1 and under 5. | 5 and under 15. | 15 and under 25. | 25 and under 65. | 65 and upwards. |
| 2 | 3 | 5 | 3 | 4 | 7 | | | | | 2 | 5 |

MORTALITY FROM SUBJOINED CAUSES.

| Smallpox. | Measles. | Scarlatina. | Diphtheria. | Croup ("not Spasmodic"). | Whooping Cough. | Typhus. | Enteric or Typhoid. | Other or Doubtful. | Diarrhoea & Dysentery. | Cholera. | Rheumatic Fever. | Erysipelas. | Pyæmia. | Puerperal Fever. | Ague. | Cancer. | Phthisis. | Pneumonia. | Bronchitis & Pleurisy. | Heart Disease. | Injuries. | Other Diseases. |
|-----------|----------|-------------|-------------|--------------------------|-----------------|---------|---------------------|--------------------|------------------------|----------|------------------|-------------|---------|------------------|-------|---------|-----------|------------|------------------------|----------------|-----------|-----------------|
| | | | | | | | | | | | | | | | | 2 | | | | 1 | | 4 |

Birth Rate, 14·8.

Death Rate, 20·7.

(a) Zymotic Death Rate, 0·0.

(b) Inf. Mortal 0·0.

Phthisis Death Rate, 0·0.

Resp. Death Rate, 0·0.

Smallpox Death Rate, 0·0.

Measles Death Rate, 0·0.

Scarlatina Death Rate, 0·0.

Diphtheria Death Rate, 0·0.

Whooping Cough Death Rate, 0·0. (c) Fever Death Rate, 0·0.

Diarrhoea Death Rate, 0·0.

Cancer Death Rate, 5·9.

(a) Includes Smallpox, Measles, Scarlatina, Diphtheria, Whooping Cough, Fever and Diarrhoea.

(b) Estimated by measuring the proportion of deaths of infants under 1 year per 1,000 of the births registered during the same period.

(c) Including Typhus, Enteric Fever, and indefinite forms of Continued Fevers.

Stow-on-the-Wold Rural District.

VITAL STATISTICS.

| | Average for the Years 1889 to 1898 in- clusive. | 1898 | 1897 | 1896 | 1895 | 1894 | 1893 | 1892 | 1891 | 1890 | 1889 | 1888 | 1887 | 1886 | 1885 | 1884 |
|---|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Birth Rate per 1,000 of the population. - | 23.3 | 14.8 | 20.7 | 17.8 | 32.6 | 14.8 | 23.7 | 32.6 | 32.6 | 20.0 | 24.3 | | | | | |
| Total death rate per 1,000 of the population - | 14.7 | 20.7 | 20.7 | 14.8 | 0.0 | 11.8 | 8.9 | 17.8 | 26.7 | 14.2 | 11.4 | | | | | |
| Death Rate from the Seven Princi- pal Zymotic Diseases per 1,000 of the population - | .5 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 0.0 | 0.0 | 2.9 | 0.0 | 0.0 | | | | | |
| Rate of Infant Mor- tality estimated by measuring the proportion of Children who Died before Attaining 1 Year per 1,000 of the Births Regis- tered during the same period - | 68 | 0.0 | 28.5 | 0.0 | 0.0 | 0.0 | 12.5 | 18.1 | 9.0 | 0.0 | 0.0 | | | | | |

CASES OF INFECTIOUS DISEASES.

| | Smallpox. | Measles. | Scarlatina. | Diphtheria. | Membran- eous Croup. | Fever. | Erysipelas. | Whooping Cough. |
|----------------|-----------|----------|-------------|-------------|-------------------------|--------|-------------|--------------------|
| Cases .. | | | | | | | | |
| Deaths ... | | | | | | | | |
| Hospital Cases | | | | | | | | |
| „ Deaths | | | | | | | | |

Diseases prevalent :—None.

Period:—

Schools Closed :—

Stow-on-the-Wold Rural District.

Dr. Denning reports the unusual circumstance that the Death-rate (20·7) for 1898, is higher than the Birth-rate (14·8).

This is, however, purely accidental. The District only includes the parishes of Cutsdean and Evenlode, with a population of 337.

The sanitary condition of these parishes is said to be satisfactory.

*Tenbury Rural District.**Synopsis of Annual Report.*

| | | | |
|---------------------------|-----|-----|--------|
| Area in acres, 22,434. | | | |
| Population 1881 | ... | ... | 4,850. |
| " 1891 | ... | ... | 4,936. |
| Increase 1881-91 | ... | ... | 86. |
| Estimated Population 1898 | ... | ... | 4,900. |

Name of Medical Officer of Health, E. T. WHITAKER, M.D.

| REGISTERED BIRTHS. | | | REGISTERED DEATHS. | | | MORTALITY FROM ALL CAUSES AT SUBJOINED AGES. | | | | | |
|--------------------|----------|--------|--------------------|----------|--------|--|----------------|-----------------|------------------|------------------|-----------------|
| Males. | Females. | Total. | Males. | Females. | Total. | Under 1 year. | 1 and under 5. | 5 and under 15. | 15 and under 25. | 25 and under 65. | 65 and upwards. |
| 67 | 65 | 132 | 38 | 39 | 77 | 13 | 5 | 1 | 2 | 23 | 33 |

MORTALITY FROM SUBJOINED CAUSES.

| | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|--|--|--|--|--|------------------------|-----------------------|--|------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Smallpox. | | | | | | CONTINUED FEVERS. | | | Diarrhoea & Dysentery. | | | | | | | | | | | | | |
| Measles. | | | | | | Enteric or Typhoid. | Other or Doubtful. | | Cholera. | | | | | | | | | | | | | |
| Scarlatina. | | | | | | | | | Rheumatic Fever. | | | | | | | | | | | | | |
| Diphtheria. | | | | | | | | | Erysipelas. | | | | | | | | | | | | | |
| Croup (not "spasmodic") | | | | | | | | | Pyæmia. | | | | | | | | | | | | | |
| Whooping Cough. | | | | | | | | | Puerperal Fever. | | | | | | | | | | | | | |
| Typhus. | | | | | | | | | Ague. | | | | | | | | | | | | | |
| | | | | | | | | | Cancer. | | | | | | | | | | | | | |
| | | | | | | | | | Phthisis. | | | | | | | | | | | | | |
| | | | | | | | | | Pneumonia. | | | | | | | | | | | | | |
| | | | | | | | | | Bronchitis & Pleurisy | | | | | | | | | | | | | |
| | | | | | | | | | Heart Disease. | | | | | | | | | | | | | |
| | | | | | | | | | Injuries. | | | | | | | | | | | | | |
| | | | | | | | | | Other Diseases. | | | | | | | | | | | | | |

Birth Rate. 26.9.

Death Rate 15.7.

(a) Zymotic Death Rate, 1.2.

(b) Inf. Mortal., 98.

Phthisis Death Rate, .6.

Resp. Death Rate, 1.8.

Smallpox Death Rate, 0.0.

Measles Death Rate, 0.0.

Scarlatina Death Rate, 0.0.

Diphtheria Death Rate, 0.0.

Whooping Cough Death Rate, 0.0.

(c) Fever Death Rate, .2.

Diarrhoea Death Rate, 1.1.

Cancer Death Rate, 0.0.

(a) Includes Smallpox, Measles, Scarlatina, Diphtheria, Whooping Cough, Fever, and Diarrhoea.

(b) Estimated by measuring the proportion of deaths of infants under 1 year per 1,000 of the births registered during the same period.

(c) Including Typhus, Enteric Fever, and indefinite forms of continued Fevers.

Tenbury Rural District.

VITAL STATISTICS.

| | Average for the Years 1890 to 1898 in- clusive. | 1898 | 1897 | 1896 | 1895 | 1894 | 1893 | 1892 | 1891 | 1890 | 1889 | 1888 | 1887 | 1886 | 1885 | 1884 |
|---|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Birth Rate per 1,000 of the population - | 27.7 | 26.9 | 24.9 | 29.2 | 31.1 | 24.5 | 31.3 | 26.4 | 26.9 | 27.9 | | | | | | |
| Total Death Rate per 1,000 of the population - | 16.4 | 15.7 | 14.2 | 12.6 | 18.5 | 16.6 | 16.8 | 15.4 | 22.7 | 15.2 | | | | | | |
| Death Rate from the Seven Princi- pal Zymotic Diseases per 1,000 of the population - | 1.9 | 1.2 | 2.0 | 1.7 | 1.0 | 2.7 | 2.9 | 1.2 | 3.2 | 1.4 | | | | | | |
| Rate of Infant Mor- tality estimated by measuring the proportion of Children who Died before Attaining 1 Year per 1,000 of the Births Regis- tered during the same period - | 104 | 98 | 154 | 57 | 94 | 137 | 114 | 83 | 106 | 100 | | | | | | |

CASES OF INFECTIOUS DISEASES.

| | Smallpox. | Measles. | Scarlatina. | Diphtheria. | Membran- ous Croup. | Fever. | Erysipelas. | Puerperal Fever. |
|----------------|-----------|----------|-------------|-------------|------------------------|--------|-------------|---------------------|
| Cases ... | | | 27 | 2 | | 5 | 3 | |
| Deaths ... | | | | | | 1 | | |
| Hospital Cases | | | | | | | | |
| „ Deaths | | | | | | | | |

Diseases prevalent :—Scarlet Fever.

Period :—June.

Schools Closed :—Tenbury.

Tenbury Rural District.

Dr. Whitaker mentions that the past year was characterised by an outbreak of Scarlet Fever, chiefly in the town of Tenbury, which included 17 cases, and adds, "none of these cases went to the Hospital," and "this outbreak illustrates one of the great advantages which might be gained by an Isolation Hospital."

On the whole, he considers the general sanitation of the District to be fairly satisfactory, and with regard to the water supply of the town of Tenbury, he says that more householders have recourse to the waterworks every year.

He adds that the need for an adequate sewerage scheme for Tenbury greatly increases, but he does not at present feel justified in urging a system, owing to the unsettled state of the disposal sewage questions.

He advises that an improved method method of collecting and improving house refuse disposal is desirable.

The Slaughter-houses and Bake-houses are duly inspected.

*Tewkesbury Rural District.**Synopsis of Annual Report.*

Area in acres, 10,019.

Population 1881 ... 2,452

" 1891 ... 2,488

Increase 1881-91 ... 36

Estimated Population, 1898 2,488

Name of Medical Officer of Health, A. FOWELL TURNER.

| REGISTERED BIRTHS. | | | REGISTERED DEATHS. | | | MORTALITY FROM ALL CAUSES AT SUBJOINED AGES. | | | | | |
|--------------------|----------|--------|--------------------|----------|--------|--|----------------|-----------------|------------------|------------------|-----------------|
| Males. | Females. | Total. | Males. | Females. | Total. | Under 1 year. | 1 and under 5. | 5 and under 15. | 15 and under 25. | 25 and under 65. | 65 and upwards. |
| 38 | 22 | 60 | 15 | 14 | 29 | 7 | 1 | | 5 | 7 | 9 |

MORTALITY FROM SUBJOINED CAUSES.

| Smallpox. | Measles. | Scarlatina. | Diphtheria. | Croup (not "spasmodic"). | Whooping Cough. | Typhus. | Enteric or Typhoid. | Other or Doubtful. | Diarrhoea & Dysentery. | Cholera. | Rheumatic Fever. | Erysipelas. | Pyæmia. | Puerperal Fever. | Ague. | Cancer. | Phthisis. | Pneumonia. | Bronchitis & Pleurisy. | Heart Disease. | Injuries. | Other Diseases. |
|-----------|----------|-------------|-------------|--------------------------|-----------------|---------|---------------------|--------------------|------------------------|----------|------------------|-------------|---------|------------------|-------|---------|-----------|------------|------------------------|----------------|-----------|-----------------|
| | | | | | | | | | | | | | | 2 | | | 5 | 2 | 1 | 1 | 1 | 17 |

Birth Rate, 23·7.

Death Rate, 11·6.

(a) Zymotic Death Rate, 0·0.

(b) Inf. Mortal, 116.

Phthisis Death Rate, 2·0.

Resp. Death Rate, 1·2.

Smallpox Death Rate, 0·0.

Measles Death Rate, 0·0.

Scarlatina Death Rate, 0·0.

Diphtheria Death Rate, 0·0.

Whooping Cough Death Rate, 0·0.

Diarrhoea Death Rate, 0·0.

(c) Fever Death Rate, 0·0.

Cancer Death Rate, 0·0.

(a) Includes Smallpox, Measles, Scarlatina, Diphtheria, Whooping Cough, Fever and Diarrhoea.

(b) Estimated by measuring the proportion of deaths of infants under 1 year per 1,000 of the births registered during the same period.

(c) Including Typhus, Enteric Fever, and indefinite forms of Continued Fevers.

Tewkesbury Rural District.

VITAL STATISTICS.

| | Average for the Years 1889 to 1898 in- clusive. | 1898 | 1897 | 1896 | 1895 | 1894 | 1893 | 1892 | 1891 | 1890 | 1889 | 1888 | 1887 | 1886 | 1885 | 1884 |
|--|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Birth Rate per 1,000 of the population. - | 22.4 | 23.7 | 24.9 | 25.3 | 22.9 | 20.8 | 24.1 | 23.7 | 14.8 | 22.3 | 22.3 | | | | | |
| Total death rate per 1,000 of the population. - | 15.4 | 11.6 | 20.8 | 18.8 | 11.2 | 15.6 | 13.2 | 18.0 | 14.0 | 15.4 | 15.8 | | | | | |
| Death Rate from the Seven Princi- pal Zymotic Diseases per 1,000 of the population. - | .3 | 0.0 | .8 | 1.2 | 0.0 | 0.0 | .5 | 0.0 | .4 | .2 | .3 | | | | | |
| Rate of Infant Mor- tality estimated by measuring the proportion of Children who Died before Attaining 1 Year per 1,000 of the Births Regis- tered during the same period. - | 78 | 116 | 64 | 79 | 52 | 115 | 73 | 105 | 54 | 80 | 77 | | | | | |

CASES OF INFECTIOUS DISEASES.

| | Smallpox. | Measles. | Scarlatina. | Diphtheria. | Membran- ous Croup. | Fever. | Erysipelas. | Puerperal Fever. |
|----------------|-----------|----------|-------------|-------------|------------------------|--------|-------------|---------------------|
| Cases ... | | | 4 | | | 1 | 1 | 2 |
| Deaths ... | | | | | | | | 2 |
| Hospital Cases | | | 4 | | | | | |
| „ Deaths | | | | | | | | |

Diseases prevalent :—Scarlet Fever.

Period :—January and February.

Schools Closed :—Bredon,

Tewkesbury Rural District.

Mr. Turner reports favourable Mortality Statistics, and mentions that the Notification Act came into force in this District on the 25th March, 1898. Only 4 cases of Scarlet Fever were notified, and these were promptly removed to the new Isolation Hospital.

The drainage and water supply schemes at Bredon have been completed, and water is gradually being laid on to houses in the village.

Mr. Turner mentions that the Vaccination Act may be considered to be practically useless in the District, few, if any, children having been vaccinated during the past year.

*Upton-on-Severn Rural District.**Synopsis of Annual Report.*

Area in acres, 49,661.

Population 1881 ... 17,388.

" 1891 ... 17,359.

Decrease 1881-91... 29

Estimated Population 1898 13,657 (d)

Name of Medical Officer of Health, J. SELWYN COWLEY.

| REGISTERED BIRTHS. | | | REGISTERED DEATHS. | | | MORTALITY FROM ALL CAUSES AT SUBJOINED AGES. | | | | | |
|--------------------|----------|--------|--------------------|----------|--------|--|----------------|-----------------|------------------|------------------|-----------------|
| Males. | Females. | Total. | Males. | Females. | Total. | Under 1 year. | 1 and under 5. | 5 and under 15. | 15 and under 25. | 25 and under 65. | 65 and upwards. |
| 177 | 166 | 343 | 114 | 93 | 207 | 23 | 13 | 2 | 8 | 48 | 113 |

MORTALITY FROM SUBJOINED CAUSES.

| Smallpox. | Measles. | Scarlatina. | Diphtheria. | Croup (not "spasmodic"). | Whooping Cough. | Typhus. | Enteric or Typhoid. | Other or Doubtful. | CONTINUED FEVERS. | Diarrhoea & Dysentery. | Cholera. | Rheumatic Fever. | Erysipelas. | Pyæmia. | Puerperal Fever. | Ague. | Cancer. | Phthisis. | Pneumonia. | Bronchitis & Pleurisy. | Heart Disease. | Injuries. | Other Diseases. |
|-----------|----------|-------------|-------------|--------------------------|-----------------|---------|---------------------|--------------------|-------------------|------------------------|----------|------------------|-------------|---------|------------------|-------|---------|-----------|------------|------------------------|----------------|-----------|-----------------|
| | | | 2 | | | | | | | 1 | | 1 | | | | | 10 | 10 | 9 | 20 | 28 | 2 | 124 |

Birth Rate, 25·1.

Death Rate, 15·1. *

(a) Zymotic Death Rate, 0·2.

(b) Inf. Mortal, 67.

Phthisis Death Rate, ·7.

Resp. Death Rate, 2·1.

Smallpox Death Rate, 0·0.

Measles Death Rate, 0·0.

Scarlatina Death Rate, 0·0.

Diphtheria Death Rate, ·14.

Whooping Cough Death Rate, 0·0.

Diarrhoea Death Rate, ·07.

(c) Fever Death Rate, 0·0.

Cancer Death Rate ·73.

(a) Includes Smallpox, Measles, Scarlatina, Diphtheria, Whooping Cough, Fever, and Diarrhoea.

(b) Estimated by measuring the proportion of deaths of infants under 1 year per 1,000 of the births registered during the same period.

(c) Including Typhus, Enteric Fever, and indefinite forms of Continued Fevers.

(*) Does not include deaths occurring in Powick Lunatic Asylum.

(d) Excluding Powick Asylum and Districts annexed to Malvern Urban District.

Upton-on-Severn Rural District.

VITAL STATISTICS.

| | Average for the Years 1884 to 1896 in- clusive. | 1898 | 1897 | 1896 | 1895 | 1894 | 1893 | 1892 | 1891 | 1890 | 1889 | 1888 | 1887 | 1886 | 1885 | 1884 |
|--|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Birth Rate per 1,000 of the population - | 26.5 | 25.1 | 27.1 | 26.7 | 27.0 | 23.6 | 27.8 | 26.3 | 28.0 | 25.3 | 23.8 | 25.8 | 27.4 | 27.7 | 28.1 | 27.9 |
| Total Death Rate per 1,000 of the population - | 17.0 | 15.1 | 17.6 | 16.0 | 21.1 | 15.6 | 15.3 | 20.1 | 17.4 | 16.0 | 16.7 | 16.8 | 18.4 | 17.9 | 16.1 | 15.0 |
| Death Rate from the Seven Principal Zymotic Diseases per 1,000 of the population - | .6 | .2 | .3 | 1.3 | .2 | .2 | .6 | .5 | .7 | .4 | 1.1 | .4 | .8 | .8 | 1.4 | .6 |
| Rate of Infant Mor- tality estimated by measuring the proportion of Children who Died before Attaining 1 Year per 1,000 of the Births Regis- tered during the same period. - | 108 | 67 | 113 | 140 | 92 | 123 | 107 | 127 | 93 | 126 | 127 | 112 | 101 | 119 | 103 | 94 |

CASES OF INFECTIOUS DISEASES.

| | Smallpox. | Measles. | Scarlatina. | Diphtheria. | Membran- eous Croup | Fever. | Erysipelas. | Puerperal Fever. |
|----------------|-----------|----------|-------------|-------------|------------------------|--------|-------------|---------------------|
| Cases ... | | | 74 | 7 | | | 5 | 2 |
| Deaths ... | | | | 2 | | | | |
| Hospital Cases | | | 39 | 3 | | 1 | 1 | |
| „ Deaths | | | | | | 1 | | |

Diseases prevalent :—Scarlet Fever.

Period :—Spring and Summer.

Schools Closed :—Earl's Croome, Castlemorton, Birtsmorton,
Welland, and Bushley.

Upton-on-Severn Rural District.

Mr. Cowley reports favourable Vital Statistics for the year, and mentions that 74 cases of Scarlet Fever (no deaths) were notified.

Four cases of Infectious disease occurred in the County Asylum, viz., 1 Scarlet Fever, 1 Enteric Fever, and 2 Erysipelas.

The 106 deaths which occurred in the County Asylum are excluded from the Vital Statistics.

Mr. Cowley alludes to the drainage improvements at Severn Stoke, which he believes will remove the nuisance of which complaint was made. He also states that he reported on November 12th, 1898, that the sewer in Kempsey was "not fit to carry sewage," and that consequently Mr. Marten, C.E., has been retained to prepare a scheme for the village.

Reference is made to the Pole Elm and Callow End drainage question, and it is mentioned that, owing to unsatisfactory details of sewage disposal, the matter has been postponed. Since Mr. Cowley presented this Report, application has been made to the Local Government Board for a loan to carry out a scheme. In the meantime an "injunction" has been obtained against the Rural District Council by an owner of property to prevent the continuance of a serious sewage nuisance adjacent to Wheatfields, Powick, and other legal proceedings have been commenced against the Authority.

This defective drainage of these localities have been referred to in Mr. Cowley's Annual Reports for several years past.

The question of Ripple drainage is still unsettled, although the Surveyor was instructed to prepare plans 3 years ago. I commend this matter to your consideration.

Mr. Cowley mentions that many of the habitations in the poorer parts of the District are in a very bad state, and that he is not satisfied with the procedure when a certificate of condemnation has been given, as owners are permitted to relet or re-occupy such dwellings before adequate improvements has been made.

Special attention seems to be given to Dairies and Cowsheds, and Slaughter-houses.

Yardley Rural District.

Synopsis of Annual Report.

Area in acres, 7,590.
 Population 1881 ... 9,745.
 " 1891 ... 17,141.
 Increase 1881-91 ... 7,396.
 Estimated Population 1898 28,750.

Name of Medical Officer of Health, GEORGE WILSON, M.A., M.D.,
 D.P.H., CAMB.

| REGISTERED BIRTHS. | REGISTERED DEATHS. | MORTALITY FROM ALL CAUSES AT SUBJOINED AGES. | | | |
|--------------------|--------------------|--|-----------------|--------|------------------|
| | | Males. | Females. | Total. | Under 1 year. |
| 443 | 121 | 388 | 349 | 737 | 1 and under 5. |
| 388 | 35 | 353 | 1 and under 5. | 35 | 5 and under 15 |
| 833 | 11 | 175 | 14 | 189 | 15 and under 25. |
| 175 | 100 | 174 | 25 and under 65 | 100 | 65 and upwards. |
| 174 | 68 | 174 | | 68 | |

MORTALITY FROM SUBJOINED CAUSES.

| CONTINUED FEVERS. | | Other or Doubtful. | Typhus. | Whooping Cough. | Croup (not "spasmodic") | Diphtheria. | Scarlatina. | Measles. | Smallpox. |
|-------------------|-----|------------------------|------------------------|------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|
| | | | | | | | | | |
| 27 | 27 | Diarrhoea & Dysentery. | Diarrhoea & Dysentery. | Diarrhoea & Dysentery. | Diarrhoea & Dysentery. | Diarrhoea & Dysentery. | Diarrhoea & Dysentery. | Diarrhoea & Dysentery. | Diarrhoea & Dysentery. |
| 2 | 2 | Rheumatic Fever. | Rheumatic Fever. | Rheumatic Fever. | Rheumatic Fever. | Rheumatic Fever. | Rheumatic Fever. | Rheumatic Fever. | Rheumatic Fever. |
| 1 | 1 | Erysipelas. | Erysipelas. | Erysipelas. | Erysipelas. | Erysipelas. | Erysipelas. | Erysipelas. | Erysipelas. |
| 1 | 1 | Pyæmia. | Pyæmia. | Pyæmia. | Pyæmia. | Pyæmia. | Pyæmia. | Pyæmia. | Pyæmia. |
| 1 | 1 | Puerperal Fever. | Puerperal Fever. | Puerperal Fever. | Puerperal Fever. | Puerperal Fever. | Puerperal Fever. | Puerperal Fever. | Puerperal Fever. |
| 1 | 1 | Ague. | Ague. | Ague. | Ague. | Ague. | Ague. | Ague. | Ague. |
| 10 | 10 | Cancer. | Cancer. | Cancer. | Cancer. | Cancer. | Cancer. | Cancer. | Cancer. |
| 25 | 25 | Phthisis. | Phthisis. | Phthisis. | Phthisis. | Phthisis. | Phthisis. | Phthisis. | Phthisis. |
| 59 | 59 | Pneumonia. | Pneumonia. | Pneumonia. | Pneumonia. | Pneumonia. | Pneumonia. | Pneumonia. | Pneumonia. |
| 30 | 30 | Bronchitis & Pleurisy. | Bronchitis & Pleurisy. | Bronchitis & Pleurisy. | Bronchitis & Pleurisy. | Bronchitis & Pleurisy. | Bronchitis & Pleurisy. | Bronchitis & Pleurisy. | Bronchitis & Pleurisy. |
| 6 | 6 | Heart Disease. | Heart Disease. | Heart Disease. | Heart Disease. | Heart Disease. | Heart Disease. | Heart Disease. | Heart Disease. |
| 157 | 157 | Injuries. | Injuries. | Injuries. | Injuries. | Injuries. | Injuries. | Injuries. | Injuries. |
| 157 | 157 | Other Diseases. | Other Diseases. | Other Diseases. | Other Diseases. | Other Diseases. | Other Diseases. | Other Diseases. | Other Diseases. |

Birth Rate, 28.9.
 Zymotic Death Rate, 2.0.
 Phthisis Death Rate, .8.
 Smallpox Death Rate, 0.0.
 Scarlatina Death Rate, 0.0.
 Whooping Cough Death Rate, .3.
 Diarrhoea Death Rate, .9.
 (a) Includes Smallpox, Measles, Scarlatina, Diphtheria, Whooping Cough, Fever, and Diarrhoea.
 (b) Estimated by measuring the proportion of deaths of infants under 1 year per 1,000 of the births registered during the same period.
 (c) Including Typhus, Enteric Fever, and indefinite forms of continued Fevers.

Winchcombe Rural District.

VITAL STATISTICS.

| | Average for the Years 1889 to 1898 in- clusive. | 1898 | 1897 | 1896 | 1895 | 1894 | 1893 | 1892 | 1891 | 1890 | 1889 | 1888 | 1887 | 1886 | 1885 | 1884 |
|---|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Birth Rate per 1,000 of the population. — | 36.4 | 47.6 | 23.8 | 15.8 | 31.7 | 39.6 | 47.7 | 55.5 | 31.7 | 23.3 | 47.6 | | | | | |
| Total death rate per 1,000 of the population — | 18.1 | 15.8 | 23.8 | 31.7 | 7.9 | 23.8 | 7.9 | 31.7 | 7.9 | 23.3 | 7.9 | | | | | |
| Death Rate from the Seven Princi- pal Zymotic Diseases per 1,000 of the population — | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | |
| Rate of Infant Mor- tality estimated by measuring the proportion of Children who Died before Attaining 1 Year per 1,000 of the Births Regis- tered during the same period — | 159 | 156 | 0.0 | 500 | 0.0 | 400 | 0.0 | 286 | 0.0 | 250 | 0.0 | | | | | |

CASES OF INFECTIOUS DISEASES.

| | Smallpox. | Measles. | Scarlatina. | Diphtheria. | Membran- ous Croup. | Fever. | Erysipelas. | Whooping Cough. |
|----------------|-----------|----------|-------------|-------------|------------------------|--------|-------------|--------------------|
| Cases .. | | | | | | | | |
| Deaths ... | | | | | | | | |
| Hospital Cases | | | | | | | | |
| „ Deaths | | | | | | | | |

Diseases prevalent :—None.

Period :—

Schools Closed :—

Winchcombe Rural District.

Two deaths in the single parish of Cutsdean, which represents the Worcestershire Division of the Winchcombe Rural District accounts for the general Death-rate of 15·8.

No Infantile deaths were notified. Mr. Cox says that "the Isolation Hospital should prove of great use to the District"

Wincombe Rural District.

Synopsis of Annual Report.

Area in acres, 1,560.
 Population 1881 ... 171.
 " 1891 ... 126.
 Decrease 1881-91 ... 45.
 Estimated Population 1898 126.
 Name of Medical Officer of Health, Wm. Cox.

| REGISTERED BIRTHS. | REGISTERED DEATHS. | | MORTALITY FROM ALL CAUSES AT SUBJOINED AGES. | |
|--------------------|--------------------|----------|--|------------------|
| | Males. | Females. | Total. | Under 1 year. |
| 4 | 2 | 6 | 1 | 1 |
| | Males. | Females. | Total. | 1 and under 5. |
| | 1 | 1 | 2 | 5 and under 15. |
| | 1 | 1 | 2 | 15 and under 25. |
| | 1 | 1 | 2 | 25 and under 65. |
| | 1 | 1 | 2 | 65 and upwards. |

MORTALITY FROM SUBJOINED CAUSES.

| Smallpox. | Measles. | Scarlatina. | Diphtheria. | Croup ("not Spasmodic"). | Whooping Cough. | Typhus. | Enteric or Typhoid. | Other or Doubtful. | Diarrhoea & Dysentery. | Cholera. | Rheumatic Fever. | Erysipelas. | Pyæmia. | Puerperal Fever. | Ague. | Cancer. | Phthisis. | Pneumonia. | Bronchitis & Pleurisy. | Heart Disease. | Injuries. | Other Diseases. |
|-----------|----------|-------------|-------------|--------------------------|-----------------|---------|---------------------|--------------------|------------------------|----------|------------------|-------------|---------|------------------|-------|---------|-----------|------------|------------------------|----------------|-----------|-----------------|
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

- (a) Zymotic Death Rate, 0.0.
 Birth Rate, 47.6.
 Phthisis Death Rate, 0.0.
 Smallpox Death Rate, 0.0.
 Scarlatina Death Rate, 0.0.
 Whooping Cough Death Rate, 0.0.
 Diarrhoea Death Rate, 0.0.
 (b) Inf. Mortal 166.
 Death Rate, 15.8.
 Resp. Death Rate, 0.0.
 Measles Death Rate, 0.0.
 Diphtheria Death Rate, 0.0.
 Fever Death Rate, 0.0.
 Cancer Death Rate, 0.0.
 (c) Includes Smallpox, Measles, Scarlatina, Diphtheria, Whooping Cough, Fever and Diarrhoea.
 (b) Estimated by measuring the proportion of deaths of infants under 1 year per 1,000 of the births registered during the same period.
 (c) Including Typhus, Enteric Fever, and indefinite forms of Continued Fevers.

Yardley Rural District.

VITAL STATISTICS.

| | Average for the Years 1889 to 1898 in- clusive. | 1898 | 1897 | 1896 | 1895 | 1894 | 1893 | 1892 | 1891 | 1890 | 1889 | 1888 | 1887 | 1886 | 1885 | 1884 |
|--|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Birth Rate per 1,000 of the population. - | 27.5 | 28.9 | 25.8 | 24.8 | 26.2 | 26.8 | 27.5 | 30.5 | 30.5 | 26.6 | 27.4 | | | | | |
| Total death rate per 1,000 of the population. - | 13.1 | 12.2 | 12.1 | 13.1 | 12.7 | 11.8 | 14.9 | 14.3 | 13.1 | 13.5 | 13.6 | | | | | |
| Death Rate from the Seven Princi- pal Zymotic Diseases per 1,000 of the population. - | 1.0 | 2.0 | 1.2 | .8 | .8 | 1.2 | 1.0 | 1.2 | .5 | 1.2 | .9 | | | | | |
| Rate of Infant Mor- tality estimated by measuring the proportion of Children who Died before Attaining 1 Year per 1,000 of the Births Regis- tered during the same period. - | 117 | 145 | 135 | 105 | 123 | 125 | 114 | 119 | 90 | 107 | 114 | | | | | |

CASES OF INFECTIOUS DISEASES.

| | Smallpox. | Measles. | Scarlatina. | Diphtheria. | Membran- eous Croup. | Fever. | Erysipelas. | Puerperal Fever. |
|----------------|-----------|----------|-------------|-------------|-------------------------|--------|-------------|---------------------|
| Cases ... | | | 179 | 28 | | 17 | 29 | 2 |
| Deaths ... | | 8 | | 9 | | 5 | 1 | 1 |
| Hospital Cases | | | 124 | | | | | |
| „ Deaths | | | 1(d) | | | | | |

Diseases prevalent :—Measles and Whooping Cough.

Period :—First part of year.

Schools Closed :—Yardley Wood.

(d) In Solihull Rural District.

Yardley Rural District.

Dr. Wilson estimates that the population of the District has increased from 26,450 in 1897 to 28,750 in 1898.

He adds that the low Death-rate (12.2) is in a great way accounted for, by the constant influx of healthy, active lives, more especially of the artizan class.

The rate of Infantile Mortality (145) is considerably above the average, and was due to the excessive number of deaths from Diarrhoea among infants in the hot weather.

Dr. Wilson says that "both the Zymotic Death-rate (2.0) and the rate of Infant Mortality (145) are above the average, so that the health record of the District cannot be regarded with so much satisfaction as the excellent records of the past few years."

He mentions that in his opinion the time has arrived when the question of the extension of the Hospital site and the erection of at least another block must receive the consideration of the Joint Committee, and repeats the recommendation made in his last Annual Report, that the Committee should approach the Birmingham Corporation with a view of ascertaining whether they would be prepared to receive patients into their large new Hospital, which lies so convenient for the District.

Considerable difficulty seems to occur with regard to the disposal of refuse, and Dr. Wilson says he agrees with the Surveyor that the provision of a Destructor should receive full consideration.

He advises the extension of the sewers, especially to Bilsley, Tyseley, and Hall Green, and mentions that the outfall sewer for Sparkhill, Hay Mills, Stechford, and Yardley is so severely taxed that there is imminent risk of the pollution of the Cole. Detailed sanitary work carried out in this District will be found in the Report of the Sanitary Inspector.

Reports of Sanitary Inspectors.

139. 31 Sanitary Inspectors are employed by the 30 District Councils in the Administrative County, and their names and qualifications are given in Table C.

140. As you cannot legally require these Officers to send in Annual Reports, I am sure you will be glad to learn that everyone has done so, on the Forms issued by the County Council; and I wish once more to thank them not only for such co-operation, but also for the valuable assistance they invariably give me when my Official duties take me into their Districts.

141. Table C is a full record of the large number of insanitary conditions the Inspectors have dealt with.

142. The following District Councils have caused their Sanitary Inspector's report to be printed in conjunction with those of their Medical Officers, viz. :

URBAN.

| | |
|-------------------------------|-----------|
| Evesham. | Malvern. |
| Kidderminster. | Oldbury. |
| King's Norton and Northfield. | Redditch. |
| Lye and Wollescote. | |

RURAL.

| | |
|-------------|--------------------|
| Bromsgrove. | Pershore. |
| Droitwich. | Shipston-on-Stour. |
| Evesham. | Upton-on-Severn. |
| Feckenham. | Yardley. |
| Halesowen. | |

143. It is to be hoped that the 14 District Councils in the County, who have not hitherto printed the Reports of their Inspectors, will do so for the future, inasmuch as they would thereby be enabled to form a good idea of the work their officers undertake, and the officers themselves would be encouraged to persevere with their duties.

144. I mentioned in my last Report that 18 Inspectors made no returns of work done under the Factory and Workshops Act in 1897, as compared with 21 in 1896. 1898 witnessed some little improvement in this respect, only 16 Inspectors (5 Urban, 11 Rural, see Table C), being in that position.

145. Once more I would urge that it is most important that all the Inspectors should take action under the Factory and Workshops Acts. The term "Workshop" is so comprehensive, that unquestionably in all Urban Districts there are numbers of such places, and in but few Rural Districts can they be non-existent. The provision of adequate ventilation, cubic space, closet accommodation, and water supply, &c., are so essential to the health of the workers, that this side of public health administration should receive full attention.

146. I would ask the Inspectors to specially consider what I have said in paragraphs 111 and 112 of this Report with respect to "Excrement Disposal" and in paragraphs 113, 114, and 115 as to "Dairies and Cowsheds."

147. In addition to the tabular statements contained in Table C, the Inspectors for the undermentioned Districts sent written Reports.

BEWDLEY BOROUGH.

148. Mr. Humpherson mentions that a "tip" for ashes and refuse has been provided, and consequently the banks of the Severn are not so unsightly as formerly, and in his capacity as Borough Surveyor, adds that some of the brick sewers have been improved.

BROMSGROVE NORTH URBAN DISTRICT.

149. Mr. Milton states that the Lickey National, and Linthurst, Schools were cleansed and fumigated in consequence of infectious disease, and that the new houses in the District derive their water supply from the East Worcestershire Waterworks Company's mains. No public scavenging is done.

EVESHAM BOROUGH.

150. Mr. Harvey reports that 2 public urinals have been provided.

KIDDERMINSTER BOROUGH.

151. Mr. Cowderoy, C.S.I., submits a very full Report, dealing with the Bakehouses, Dairies, and Cowsheds, Slaughter-houses, Common Lodging-houses, Factories and Workshops, Disinfection. He also gives a Report prepared by a Special Committee, the Medical Officer of Health, and himself, with regard to the Bakehouses, from which it appears that 11 of such places "can be safely claimed as first class, 23 "as second class, 17 as third class." Various insanitary conditions met

with at these bakehouses have been dealt with. Proceedings with respect to adulterated flour—referred to in my Digest for 1897—are recorded.

152. Mr. Cowderoy gives scavenging details, and states that the "court sweeper" employed by the Corporation unstopped 253 drains and 288 w.c.'s "by means of a plunger (and) if this fails to remove the obstruction, the owner or agent is served with a notice." The action taken by the Kidderminster Corporation as to "court sweeping" and unstopping of drains and closets could be most advantageously followed by other Urban Authorities in the County. Records, of a large amount of work under the "Sale of Foods and Drugs Act," and of meteorological observations, are also to be found in Mr. Cowderoy's Report.

MALVERN URBAN DISTRICT.

153. Mr. Hillyard's C.S.I., Report shows that very much good work has been done, and particularly with respect to house-drainage and the improvement of defective methods of excrement disposal at several Schools. Drain-testing (smoke and water) has been strictly carried on, the drains of no less than 120 houses having been tested under Mr. Hillyard's supervision during the year.

OLDBURY URBAN DISTRICT.

154. Mr. Robbins describes very fully the work he has had in hand, and his report deals with work undertaken in connection with "old and dilapidated structures," "Sanitary Conveniences," "House-drains," "Infectious Disease," "Dairies and Cowsheds," "Water supply," "Factories and Workshops," "Food," "Removal of Animals," "Scavenging," and "Canal Boats Inspection." Mr Robbins inspected 240 Canal Boats in 1898, and says, "the past year has been one of progress in regard to the better condition of the Canal Boats, and . . . that the children would be much better out of the Boats."

BROMSGROVE RURAL DISTRICT.

155. Mr. Knight states that registration of the Dairies, Cowsheds, and Slaughter-houses is now nearly complete. He alludes to some drainage schemes referred to in the Medical Officer of Health's report.

DROITWICH RURAL DISTRICT.

156. Mr. Stevens mentions that raising the chimneys of the Hartlebury Brickworks removed a serious smoke nuisance. A new "work-

shop" was built, owing to the representations he made. He also says that the defective drainage of the village of Ombersley is engaging the attention of his Council, and hopes that the new Sanitary Bye-laws will shortly be in force. He also describes the action he took in connection with an outbreak of Anthrax in cattle.

EVESHAM RURAL DISTRICT.

157. Mr. Harvey, who is Sanitary Surveyor, as well as Inspector, mentions that he prepared Plans, Sections, Specifications, &c., for drainage at Great and Little Hampton, Harvington, South Littleton, Broadway, Offenham. He also prepared plans for a new Highway Bridge at Badsey, which have since been carried out.

FECKENHAM RURAL DISTRICT.

158. Mr. Perkins mentions a sewer extension at Astwood Bank, and that the drainage of Feckenham, Crabbs Cross, and Hunt End was examined and found defective.

KIDDERMINSTER RURAL DISTRICT.

159. Mr. Steadman says the District water supply has been "well maintained, but Arley parish suffered the most during the hot weather." Attention is given to the Dairies and Milkshops, and 2 persons were "registered last year." He reports upon the Bakehouses, Slaughter-houses, and Canal Boats.

PERSHORE RURAL DISTRICT.

160. Mr. Moulson, C.S.I., prepared plans for a sewer at Burlingham, but eventually the Parish Council dealt with the matter in an unsatisfactory way. Mr. Moulson presents a full report, the substance of which is embodied in that of the District Medical Officer of Health (p. 122).

ROCK RURAL DISTRICT.

161. Mr. Downes reports that since my Digest for 1897 was issued, the owners of property at Mamble have agreed to reimburse the District Council for the outlay involved in connection with defective drainage, and that the work is being done.

Reports of Sanitary Inspectors. The late 151
Sir Douglas Galton.

SHIPSTON-ON-STOUR RURAL DISTRICT.

162. Mr. H. Gander, C.S.I., reports repairs to, and cleansing of, sewers at Shipston, Tredington, Armscott, and Darlingscott, and laying of new sewers at Tredington and Paxford. Some ventilating shafts were substituted for offensive sewer ventilators at Blockley, at which village he adds the sewage "precipitation tanks and filters continue to "work well." Low water rents are said to be charged at Blockley, but the annual income, nevertheless, amounts to £60 per annum.

UPTON-ON-SEVERN RURAL DISTRICT.

163. Mr. Price mentions that he only took up the duties of his office on August 1st, 1898, when he at once commenced a "house-to-house inspection of the District."

YARDLEY RURAL DISTRICT.

164. Mr. Harris, C.S.I., reports somewhat in detail upon Infectious Diseases prevalent, the contagious Diseases (Animals) Acts, Slaughter-houses, Bakehouses, Workshops, Petroleum Licenses, and Canal Boats.

165. I regret that after so many year's service Mr. Harris has ceased to act as a Worcestershire Inspector: for the future he will devote his entire attention to the Solihull District (Warwickshire).

166. From the above it is obvious that the Sanitary Inspectors' reports become more complete from year to year.

167. It is with deepest regret that I have to record the death of Sir Douglas Galton, F.R.S., K.C.B., &c., who acted as your Chairman since the Sanitary Committee was first appointed in 1889. The following extract from your "Minutes" shows how highly he was esteemed, and how greatly his loss will be felt:—

"899. Death of Sir Douglas Galton, K.C.B., &c. . . The Chairman (J. W. Willis-Bund, Esq.) spoke in feeling terms with reference to "the recent death of Captain Sir Douglas Galton, K.C.B., &c., the "Chairman of the Sanitary Committee; and upon the motion of the "Chairman, seconded by Mr. Robert Woodward, the meeting unani- "mously Resolved to record their sense of the great loss sustained by "the Council, and the deep obligation the County are under to him "for his great labour in connection with the work of the Sanitary "Committee."

168. In addition to this, I beg leave to record here my own feel-

ings of profound regret at the calamity which has befallen Sanitary administration in Worcestershire. During the nine years it was my good fortune to be officially associated with Sir Douglas Galton, I invariably received the greatest kindness and consideration from him, and I feel that by his death I have lost, not only a guide, possessed of rare ability and vast experience, under whom it was a pleasure and an advantage to act, but also one whom it was my privilege to be allowed to regard as a genuinely true friend.

Your obedient Servant,

G. H. FOSBROKE, D.P.H., Camb.,

County Medical Officer,

Member of Sanitary Inspectors Examination Board,

Fellow and Examiner of the Sanitary Institute, &c., &c.

SHIREHALL, WORCESTER,

July 1899.

TABLE A

[illegible]

TABLE C. Shewing SANITARY WORK done in the SANITARY INSPECTORS' DEPARTMENT during the year 1898, in the COUNTY OF WORCESTER.

SUMMARY OF REPORTS.

[illegible]

