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Contributors

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1895

AYLESBURY URBAN SANITARY AUTHORITY.

THE FIFTEENTH ANNUAL REPORT OF THE MEDICAL OFFICER OF HEALTH.

Estimated population, 9,420.

During the year there have been registered—

	M.	F.	Total.	Annual Rate per 1,000 living.
Births	96	114	210	22.2929
Deaths	65	75	140	14.8619
Excess of Births	31	39	70	7.4310

Twenty deaths were extra-parochial; deducting these makes the deaths 120, or 12.739 per 1,000 living.

There were—

14 deaths in Infirmary,	12 extra-parochial.
11 " „ Union House,	6 " „
Sudden deaths 2	Of strangers 2 " „
27	20

The births are 4 less than last year, 37.9 less than average of previous ten years, and the lowest return since 1881, notwithstanding the increase of population. The deaths are one less than last year, and 24.2 less than average of previous ten years, and also the lowest record since 1881 (when 116 were registered), and lower than that year, when the increase of population is considered. A low birth-rate tends to make a low death-rate, as infant mortality exceeds that of any other period of life. I append tables of births and deaths for this and previous ten years. In this table the extra-parochial deaths are deducted, thus showing the corrected death-rate; all those that follow are calculated from the gross death-rate, as returned by the registrar:—

	Per 1,000.		Per 1,000.
1885 Births, 276 or 34.328	...	Deaths, 149 or 18.427	
1886 " 257 " 31.456	...	" 200 " 24.479	
1887 " 275 " 33.321	...	" 140 " 16.987	
1888 " 252 " 30.230	...	" 149 " 17.874	
1889 " 251 " 29.813	...	" 122 " 14.847	
1890 " 217 " 25.523	...	" 138 " 16.231	
1891 " 253 " 28.375	...	" 151 " 17.823	
1892 " 252 " 27.885	...	" 143 " 15.823	
1893 " 232 " 25.2283	...	" 129 " 14.0278	
1894 " 214 " 22.9909	...	" 121 " 13.0004	
1895 " 210 " 22.2929	...	" 120 " 12.739	

As regards sex the births and deaths for this and previous ten years are:—

BIRTHS.											
	1895.	1894.	1893.	1892.	1891.	1890.	1889.	1888.	1887.	1886.	1885.
M.	96	114	118	139	124	112	122	126	156	127	136
F.	114	100	114	113	129	105	129	126	118	130	140
Total	210	214	232	252	253	217	251	252	274	257	276
DEATHS.											
	1895.	1894.	1893.	1892.	1891.	1890.	1889.	1888.	1887.	1886.	1885.
M.	65	79	90	86	85	78	74	98	72	107	93
F.	75	62	70	74	90	83	61	75	79	117	71
Total	140	141	160	160	175	161	135	173	151	224	164

	1895.	1894.	1893.	1892.
Excess of female births...	18;	of male births...	14	4 26
" " " deaths...	10;	" " deaths..	17	20 12

Average of previous ten years shows an excess of male births over female of 7 per annum; and of male deaths over female of 8 per annum.

This year is remarkable for the reversing the order, giving the excess of births and deaths to the female sex.

The deaths from zymotic diseases 10, or 1·0615 per 1,000, attributed to puerperal fever 1, erysipelas 5, diarrhoea (infantile) 3, rheumatic fever 1.

Thirty-six cases notified under Infectious Diseases Act, viz.,—

Modified Small Pox	3
Scarlet Fever	16
Diphtheria	1
Enteric Fever	4
Puerperal Fever	4 ... 1 fatal.
Erysipelas	8 ... 5 ..

Four cases of typhoid removed into the Union House from district were not notified afresh; one case of pyrexia, not of a definite character, occurring in Union House, does not appear in the register.

Table of deaths from zymotic diseases for this and previous ten years:—

1885	26 or 3·216 per 1,000 living.
1886	61 „ 7·588 „
1887	33 „ 3·997 „
1888	22 „ 2·639 „
1889	19 „ 2·256 „
1890	19 „ 2·230 „
1891	16 „ 1·794 „
1892	18 „ 1·9918 „
1893	18 „ 1·9573 „
1894	22 „ 2·3628 „
1895	10 „ 1·0615 „
Average of ten years.....	25·4 „ 2·696 „

This year is 13·4 below average of ten years previous. During the first three years of the decade diphtheria, whooping, and measles were epidemic; this is quite free from mortality in these affections, and scarlet fever also.

Table of causes of death from principal zymotic diseases for this and previous ten years:—

	1895.	1894.	1893.	1892.	1891.	1890.	1889.	1888.	1887.	1886.	1885.	Average of 10 years.
Measles.....	0	0	1	11	0	0	4	0	0	17	0	3·3
Diphtheria	0	1	5	0	0	0	0	6	27	16	14	1·9
Whooping Cough..	0	14	0	0	4	5	1	5	1	16	1	4·7
Croup	0	0	0	0	1	2	2	3	2	0	1	1·1
Diarrhoea&Dysentery	3	2	7	2	2	3	7	3	0	8	1	3·5
Rheumatic Fever...	1	1	1	0	0	0	0	0	0	1	1	·4
Erysipelas	5	0	0	1	0	1	3	0	3	1	1	1·0
Enteric Fever	0	0	0	0	0	6	1	2	0	0	1	1·0
Puerperal Fever ...	1	0	1	0	0	2	0	1	0	0	4	·8
Scarlet Fever	0	1	1	0	2	0	1	2	0	0	1	·8
Pyæmia	0	0	0	0	0	0	0	0	0	2	1	·3
Influenza	0	3	2	4	7	0	0	0	0	0	0	1·6
	10	22	18	18	16	19	19	22	33	61	26	



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Table of deaths from pneumonia, pleurisy, and bronchitis for this and previous ten years:—

1885	26, or	3.215	per 1,000 living.
1886	33, „	4.029	„ „ „
1887	22, „	2.665	„ „ „
1888	28, „	3.359	„ „ „
1889	19, „	2.216	„ „ „
1890	26, „	3.058	„ „ „
1891	30, „	3.363	„ „ „
1892	31, „	3.430	„ „ „
1893	25, „	2.7185	„ „ „
1894	35, „	3.7623	„ „ „
1895	25, „	2.759	„ „ „

Average of ten years, 27.5; and 10 less than last year.

The deaths occurred principally in first quarter of year; 4 were under 5 years old.

Deaths at different ages for this and previous ten years:—

	1895.	1894.	1893.	1892.	1891.	1890.	1889.	1888.	1887.	1886.	1885.
Under 1 year	19	39	26	32	34	29	23	40	31	57	28
1 & under 5	5	14	16	15	11	14	11	17	25	39	12
5 „	15	1	5	12	6	5	7	7	14	18	17
15 „	25	8	7	4	10	11	8	4	8	5	11
25 „	65	50	38	49	39	37	36	38	36	32	40
65 & upwards	57	38	53	58	77	65	52	65	44	65	66

140 141 160 160 175 161 135 173 151 224 164

Of those born (210) 14 died within the year, 7 males and 7 females, or 6.66 per cent. of births, a very much lower rate than last year and average of ten years, as shown by table:—

1895	14, or	6.66 per cent. of births.
1894	24, „	11.30 „ „
1893	21, „	9.515 „ „
1892	25, „	9.92 „ „
1891	28, „	11.067 „ „
1890	20, „	10.85 „ „
1889	12, „	4.78 „ „
1888	30, „	11.9 „ „
1887	21, „	7.636 „ „
1886	33, „	12.84 „ „
1885	22, „	7.97 „ „

10 years' average 23.6 9.777

The death-rate under 1 year is .20 less than last year, and 14.9 below average of previous ten years. 7 died within the first week, against 9 and 14 for 1894 and 1893. Deaths are attributed to—Premature birth and deficient vitality at birth, 8; diarrhoea, 3; malnutrition, 1; aphthous stom., 1; murder, 1; burn, 1; convulsions, 2; bronchitis, 2.

1 to 5 death-rate.—5 against 14 last year, and average of ten years 17.4. This is the lowest death-rate recorded. Deaths due to bronchitis 3, diarrhoea 1, convulsions 2; an inquest on one of these.

5 to 15.—1 death due to meningitis from mastoid abscess. 4 less than last year; 8.8 less than average.

15 to 25.—Deaths 1 in excess of last year, exactly average rate of ten years. Inquest 2 (verdict manslaughter by neglect 1, natural causes 1), phthisis 2, erysipelas on chronic lupus 1, ulcer of stomach (perforation) 1, embolism and meningitis 1 each.

Table of the first four powers of the numbers 1 to 100

Number	1st Power	2nd Power	3rd Power	4th Power
1	1	1	1	1
2	2	4	8	16
3	3	9	27	81
4	4	16	64	256
5	5	25	125	625
6	6	36	216	1296
7	7	49	343	2401
8	8	64	512	4096
9	9	81	729	6561
10	10	100	1000	10000

The first four powers of the numbers 1 to 100 are given in the following table.

Number	1st Power	2nd Power	3rd Power	4th Power
11	11	121	1331	14641
12	12	144	1728	20736
13	13	169	2197	28561
14	14	196	2744	37344
15	15	225	3375	50625
16	16	256	4096	65536
17	17	289	4913	83521
18	18	324	5832	104976
19	19	361	6859	130321
20	20	400	8000	160000

The first four powers of the numbers 1 to 100 are given in the following table.

Number	1st Power	2nd Power	3rd Power	4th Power
21	21	441	9261	14641
22	22	484	10648	23216
23	23	529	12167	32112
24	24	576	13824	41776
25	25	625	15625	52081
26	26	676	17576	63760
27	27	729	19683	77041
28	28	784	21952	91840
29	29	841	24389	10881
30	30	900	27000	129600

The first four powers of the numbers 1 to 100 are given in the following table.

Number	1st Power	2nd Power	3rd Power	4th Power
31	31	961	29791	13816
32	32	1024	32768	16777
33	33	1089	35937	20513
34	34	1156	39304	24784
35	35	1225	42875	29925
36	36	1296	46656	35904
37	37	1369	50653	42851
38	38	1444	54872	50800
39	39	1521	59319	59801
40	40	1600	64000	69120

25 to 65.—There are 12 more deaths in this period than last year, and 12.6 in excess of average. With the exception of last year, this period has been calculated to 60, instead of 65, so that the average is not positively correct. Deaths due to phthisis 7, inquest (accidental) 4, lung affection and bronchitis 9, kidney 3, heart 5, puerperal 2, influenza 4, cerebral 4, cancer 7, erysipelas 1, hernia and appendicitis each 1, pernicious anæmia 1, chronic alcoholism 1.

65 and upwards.—19 more deaths than last year, but 1.3 below average of ten years. Attributed to senile decay 23, bronchitis 10, cancer 4, influenza 3, paralysis 7, inquest 2, jaundice nephritis and necrosis 1 each.

The following table gives the deaths for this and previous ten years at the ages of:—

	1895.	'94.	'93.	'92.	'91.	'90.	'89.	'88.	'87.	'86.	'85.
60 to 70	19	18	17	18	15	24	20	25	10	16	25
70 to 80	31	16	23	26	40	30	18	32	22	32	28
80 upwards...	20	9	13	14	22	11	14	8	12	17	13
	70	43	53	58	77	65	52	65	44	65	66

The first decade is 0.2 over average and 1 more than last year; the second is 4.3 over average and 15 more than last year; the third is 6.7 over average and 11 more than last year.

The increase in the deaths of the last two periods is considerable, and was due to the severe cold of the first quarter of the year and the prevalence of influenza, to which 7 deaths are attributed and more indirectly due.

Two were 90 and 99.

The low death-rate in the three first periods from birth to 15 are remarkable. I submit Table showing the average death-rate at different ages for the last ten years compared with this:—

	1895.	Average of 10 years.	Difference.
Under 1 year.....	19	33.9	— 14.9
1 & under 5.....	5	17.4	— 12.4
5 „ 15.....	1	9.8	— 8.8
15 „ 25.....	8	8.1	— 1
25 „ 60.....	50	37.4	+ 12.6
60 & upwards	57	58.3	— 1.3

The births and deaths for several quarters of year.

	BIRTHS.				DEATHS.		
	M.	F.	Total per 1,000 living.		M.	F.	Total per 1,000 living.
1st Quarter	28	29	57 or 24.2036		23	28	51 or 21.6560
2nd „	25	27	52 „ 22.0806		14	13	27 „ 11.4648
3rd „	15	34	49 „ 20.8068		16	14	30 „ 12.7388
4th „	28	24	52 „ 22.0804		12	20	32 „ 13.588
4 quarters...	96	114	210 „ 22.2929		65	75	140 „ 14.6819

Deducting 20 deaths for Union and Infirmary, not belonging to Aylesbury, makes corrected rate 12.739.

The first quarter's rate, owing to influenza and deaths of 7 extra-parochials, is high; the increase is, however, confined to old people, the severe weather prevailing then affecting them especially.

UNION WORKHOUSE.

The total number of Inmates in the House, January 1st, 1895 ...	99
„ „ „ „ „ „ December 31st, 1895	107
Weekly average	103
Number admitted	167
„ discharged	144
„ deaths	11
„ births.....	5

