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**Contributors**

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RAUNDS  
URBAN DISTRICT COUNCIL.

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**ANNUAL REPORT**

OF THE  
MEDICAL OFFICER OF HEALTH,

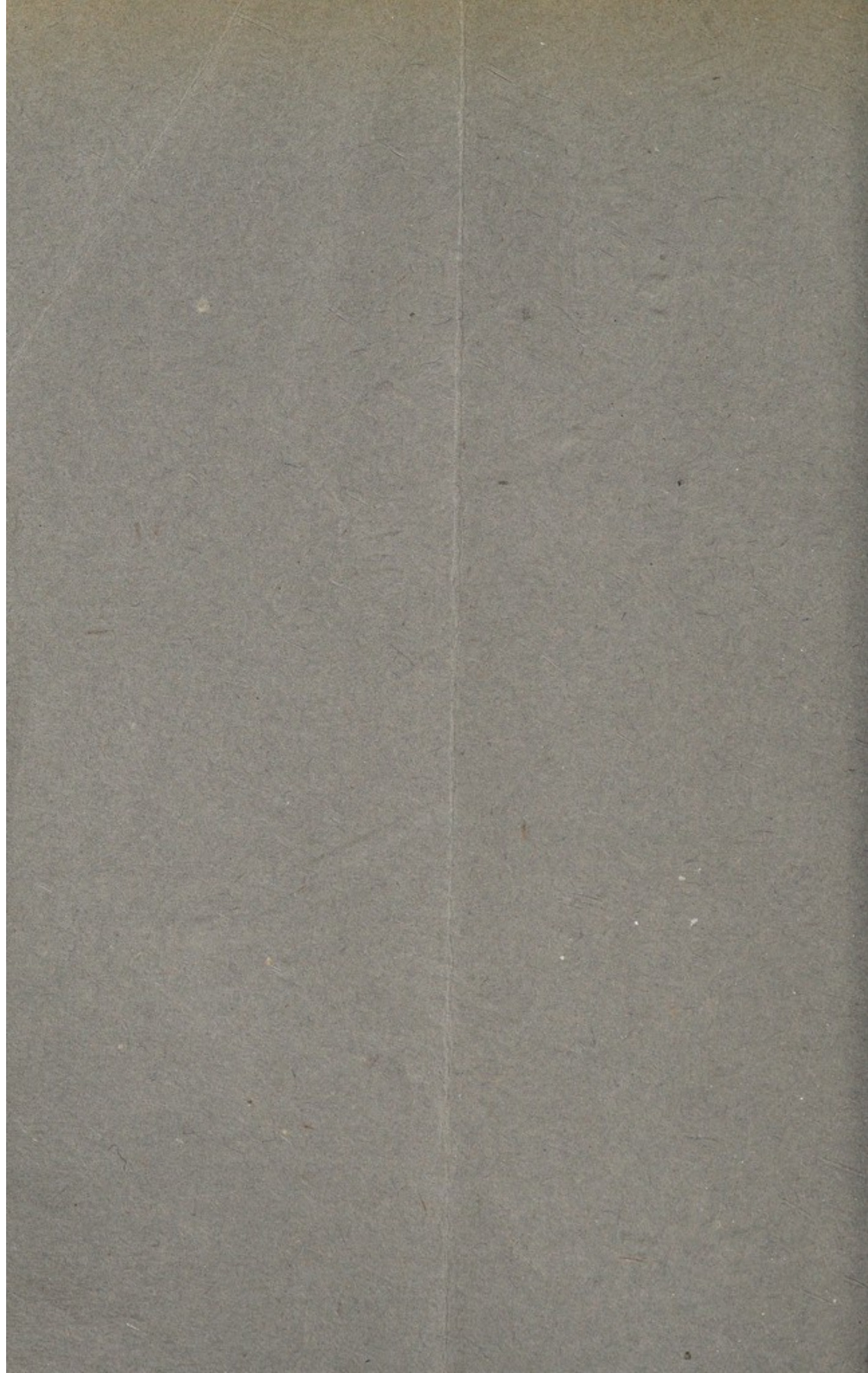
A. MCINNES,

M.B., CH.B., D.P.H. (Camb.), M.O.H.

1920.

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RAUNDS :  
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## To the Raunds Urban District Council.

GENTLEMEN,

I have the honour to submit to you my Report for the year 1920.

In the Report for 1919 I gave a general description of the geology of the district, so that I need not repeat it.

POPULATION.—The estimated population as given by the Registrar General is 4205.

INDUSTRIES.—Boot and shoe manufacture is by far the chief industry, a speciality in army boots being the chief feature. During 1920 there has been a good deal of unemployment consequent on the trade depression associated with the transition from war conditions to peace conditions.

BIRTH RATE.—The number of births was 80, 41 males and 39 females. This gives a birth-rate of 19·02 per 1000 of the estimated population. England and Wales show an average of 25·4 births per 1000. The illegitimate births were 4, or 5 per cent of total births. Below is a table which shows the birth-rate per 1000 of population in Raunds, Northamptonshire, and England and Wales for the years 1916, 1917, 1918, 1919 and 1920.

		Raunds		Northants		England & Wales
1916	...	18·5	...	17·34	...	21·6
1917	...	15·4	...	15·07	...	17·8
1918	...	14·6	...	14·34	..	17·7
1919	...	13·29	...	14·52	...	18·5
1920	...	19·02	...		...	25·4

DEATH RATE.—The total number of deaths was 45, and this includes 8 transferable deaths. The recorded death rate is 10·7 and the crude death rate 8·8 per 1000 of population. The death rate for England and Wales for the same period is 12·4 per 1000. Below is a table of death rates for 5 years :—

		Raunds		Northants		England & Wales
1916	...	11·7	...	13·33	...	14
1917	...	11·4	...	14·01	...	14·4
1918	...	14·3	...	15·25	...	17·6
1919	...	9·89	...	13·84	...	13·8
1920	...	10·7	...		...	12·4

About half the deaths were over 65 years. Below is a list showing the causes of death :—

	Male	Female
Whooping Cough ... ..	0	1
Influenza ... ..	1	0
Phthisis (Pulmonary Tuberculosis) ... ..	2	2
Tuberculous Meningitis ... ..	1	0
Cancer, Malignant Disease ... ..	2	3
Organic Heart Disease ... ..	1	1
Bronchitis ... ..	2	1
Pneumonia (all forms) ... ..	3	0
Congenital Debility and Malformation, including Premature Birth ... ..	1	3
Parturition ... ..	0	2
Violence ... ..	0	1
Other defined diseases... ..	12	5
Diseases ill-defined or unknown ... ..	1	0
	—	—
Totals	26	19
	—	—

INFANTILE MORTALITY.—The number of deaths under 1 year was 5, and gives an infantile mortality rate of 62·5 per 1000 of births. Four of the deaths were due to prematurity and congenital defects. The other death was due to whooping cough.

Below is the infantile mortality rate from 1916 to 1920 inclusive :

	Raunds	Northants	England & Wales
1916 ...	61·7	66	91
1917 ...	32·2	81	97
1918 ...	64·5	74	97
1919 ...	35·08	80	89
1920 ...	62·5	...	80

DIARRHŒA AND ENTERITIS OF CHILDREN UNDER 2 YEARS.  
—No death was thus registered.

TUBERCULOSIS DEATH RATE.—Five death were due to tuberculosis, four of them pulmonary. This is equivalent to a death rate of 1·17 per 1000 of population. Of the deaths only one was notified during 1920, three being notified in previous years, while the fifth case was a transferable death of tuberculosis meningitis from an institution outside of Raunds. After death the houses were thoroughly disinfected, and where necessary the bedding and other contaminated

material burned. The ages at death were 17, 18, 29, 30, 40. Four were shoe factory workers. The tuberculosis death rates for previous years are :—

		Raunds		Northants
1916	...	1'74	...	1'49
1917	...	2'5	...	1'49
1918	...	2'65	...	1'5
1919	...	'49	...	1'13

**TUBERCULOSIS NOTIFICATIONS.**—The total number of notifications of tuberculosis disease was 11, 10 pulmonary and 1 other. Five of the notifications were given sanatorium treatment, and all of them have done very well.

The standardised mortality from Tuberculosis in England and Wales (1910-12) for shoemakers, bricklayers, coal miners, was in the proportion of 4'56, 2'73, 1'63. Printers and book-binders show a somewhat similar death rate to shoemakers. Probably the chief factors causing tuberculosis are (1) Occupation, (2) Hygienic conditions of labour, (3) Opportunity for massive infection. There may be some hereditary disposition to the disease, but in many cases this can be explained by opportunity for massive infection.

As regards home conditions and wages there is scarcely likely to be much difference in the trades enumerated. Evidently then there are grounds for the belief that shoe manufacturing has some quality tending to a fairly high tuberculosis death rate.

**INFECTIOUS DISEASE.**—Below is a list of notifiable diseases reported during 1920. There was no epidemic.

NOTIFIABLE DISEASE	At all ages	AT AGES—YEARS						
		Under 1	1 to 5	5 to 15	15 to 25	25 to 45	45 to 65	65 and up- wards
Dysentery (Amœbic)	1	...	...	...	...	1	...	...
Diphtheria, including Membranous Croup	1	...	1	...	...	...	...	...
Pulmonary Tuberculosis	10	...	...	1	3	6	...	...
Other forms of Tuberculosis	1	...	...	...	...	1	...	...
Pneumonia	6	...	1	...	...	4	1	...

## ANNUAL REPORT OF SANITARY INSPECTOR, 1920.

Number of Inspections, 276

Number of Nuisances found, 98

Number of Nuisances abated, 90

Food unfit for human consumption seized,  
94 lbs. mutton, 1 ton, 8 cwt. potatoes.

BAKEHOUSES.—The whole of the Bakehouses are well kept. In several instances limewashing has been required, this has been done in all cases.

SLAUGHTER-HOUSES.—The whole of the slaughter-houses are well kept.

COWSHEDS AND DAIRIES.—There is room for considerable improvement in some of the cowsheds. These are having my attention.

FREDERIC H. ELLIS, Cert. R.S.I.,

*Surveyor and Inspector of Nuisances.*

April, 1921.

## HOMEWORK.—Boot and Shoe Making.

12 twice in the year Lists were received showing a total of  
92 outworkers.

### INSPECTION.

Premises.	Number of		
	Inspections	Written Notices	Prosecutions
Factories and Tanneries, &c. ... ..	30	0	0
Workshops ... ..	20	0	0
Workplaces ... ..	14	0	0
Bakehouses ... ..	20	0	0
Total ... ..	84	0	0

### DEFECTS FOUND.

Particulars.	Number of defects			Number of Prosecutions
	Found	Remedied	Referred to H.M. Inspector	
<i>Nuisances under the Public Health Acts :—</i>				
Want of cleanliness ... ..	2	2	0	0
Want of ventilation ... ..	0	0	0	0
Overcrowding ... ..	0	0	0	0
Want of drainage of floors ... ..	0	0	0	0
Other Nuisances ... ..	1	1	0	0
Sanitary accomodat'on {	insufficient ... ..	0	0	0
	unsuitable or defective	3	3	0
	not separate for sexes	0	0	0
<i>Offences under the Factory &amp; Workshop Act :—</i>				
Illegal occupation of underground bakehouses ...	0	0	0	0
Breach of special sanitary sequirements for bakehouses ... ..	4	4	0	0
Other offences ... ..	0	0	0	0
Total ... ..	10	10	0	0

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bakehouses ... ..	4	4	0	0
Other offences ... ..	0	0	0	0
Total ... ..	10	10	0	0

## Meteorology of Raunds.—Inspected Station under the Air Ministry.

### RAINFALL.

The mean annual rainfall is  
23·79 inches divided as follows :

January ...	1·53
February ...	1·43
March ...	1·67
April ...	1·36
May ...	2·32
June ...	1·85
July ...	2·50
August ...	2·70
September ...	1·49
October ...	2·50
November ...	2·07
December ...	2·37

The rainfall for 1920 was  
21·41 inches divided as follows :

January ...	2·04
February ...	0·79
March ...	1·82
April ...	3·79
May ...	1·09
June ...	1·39
July ...	3·19
August ...	1·04
September ...	2·06
October ...	1·18
November ...	1·10
December ...	1·92

The rainfall since 1903 has been as follows :

1903 ... 30·31	1908 ... 22·15	1913 ... 19·25	1918 ... 24·60
1904 ... 19·22	1909 ... 24·63	1914 ... 21·71	1919 ... 26·33
1905 ... 18·31	1910 ... 24·80	1915 ... 23·50	1920 ... 21·41
1906 ... 26·55	1911 ... 19·25	1916 ... 29·16	
1907 ... 25·47	1912 ... 32·25	1917 ... 24·24	

TEMPERATURE.—Maximum : 82 on 25th May and 17th June.  
Minimum : minus 1 on December 13. Mean Temperature for year : 48·1 (a deficiency of 1·5 degrees).

SUNSHINE.—The Sunshine records have not been taken in Raunds for a sufficient number of years to establish a trustworthy average. The following are the figures up to the present :

1909 ... 1650 hrs.	1913 not recorded	1917 not recorded
1910 ... 1365 „	1914 ... 1618 hrs.	1918 ... 1546 „
1911 ... 1138 „	1915 ... 1547 „	1919 ... 1514 „
1912 ... 1303 „	1916 ... 1321 „	1920 ... 1401 „

GENERAL NOTES.—While not absolutely the driest station in England, Raunds is situated in the driest area of the country. This deficiency of rainfall is characteristic of each season of the year, and is not dependent on the dryness of any particular period of the year. (Contrast Raunds 23·79 inches, Clacton 19·19, Eastbourne 30·74, Falmouth 49·69, Dartmoor 81·46, Seathwaite, Cumberland 129·48). The temperature here is subject to the greatest extremes in England, that is, the highest summer and the lowest winter temperatures may be expected in this area. This is due mainly to our distance from the sea. The sunshine records are good for the midland counties, but of course much less than those of the southern seaside resorts.

LEON G. HAROLD LEE, F.R.Met.S., etc.  
Late Meteorological Observer B.E.F.