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THE  
**ANNUAL REPORT**

TO THE  
URBAN SANITARY  
AUTHORITY

OF THE  
**COUNTY BOROUGH OF HUDDERSFIELD**

FOR THE YEAR

**1928**

BY

**S. G. H. MOORE, M.D. VICT.,**  
M.R.C.P. LOND., D.P.H. LOND.

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PRINTED BY ORDER OF  
THE HEALTH COMMITTEE

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PUBLIC HEALTH DEPARTMENT,  
HUDDERSFIELD,

2nd August, 1929.

TO THE CHAIRMAN AND MEMBERS OF THE HEALTH COMMITTEE.

GENTLEMEN,

The residential provision for motherhood was transferred from the old pavilion at Mill Hill to the new Maternity Home in July.

The Home was opened by the Chairman of the Maternity and Child Welfare Committee—Alderman Law Taylor, J.P.—on the 2nd of that month, and the first patient was admitted on the same night, her baby being born on the following day.

From that period until the end of the year, 125 confinements took place without a maternal death or serious complication. There were three cases of twins.

There were four still-births; and six babies born alive died. This was at the rate of 48 per thousand.

The average duration of treatment was 15 days.

It will be re-called that the Ministry of Health objected to the provision of more than 15 beds. During eleven days in the six months under review, more than 15 patients were actually under treatment in the Home. The maximum number under treatment on any one day was 18.

---

During the year 1,341 tub closets were converted to the water carriage system.

I am,

Mr. Chairman and Gentlemen,

Faithfully yours,



M.D.,

Medical Officer of Health.



## ABSTRACT.

1. **Situation of the Borough.**—Latitude 53° 39' 7" N.; Longitude 1° 47' 30" W.
  2. **Elevation.**—Varies from 150 feet to 1200 feet above Sea Level.
  3. **Area of the Borough.**—11,875 acres.
  4. **Population.**—1921 Census, 110,102; estimated by the Registrar General at middle of 1928, 113,000, for calculating death, mortality, and birth rates.
  5. **Density of Population.**—For the Borough 9.5 persons per acre.
  6. **Number of Inhabited Houses.**—(1921)   ...   ...   ... 28,179  
       "       "       "   (1928)   ...   ...   ... 30,959
  7. **Number of Families or Separate Occupiers.**—(1921)   ... 27,846
  8. **Rateable Value.**—£894,226 15s. 0d.
  9. **Sum represented by 1d. Rate.**—£3,380
  10. **Marriages.**—Number during the year, 717; rate per 1,000 of the population, 6.3.
  11. **Live Births**

{	Legitimate	... 1,484	... 755	... 729	} Birth Rate ... 13.65
{	Illegitimate	... 53	... 34	... 19	
  12. **Deaths.**—
 

1,495	... 740	... 755	Death Rate ... 13.27
-------	---------	---------	----------------------

Annual rate of mortality, 13.27.  
 Mean rate during years 1919-1928, 13.60.  
 Total deaths from zymotic diseases, 24.  
 Annual rate of mortality   do.       0.21.  
 Mean rate of mortality     do.   years 1919-1928, 0.28.
  - 13.—Number of women dying in, or in consequence of, childbirth—
 

from sepsis	...	...	—
from other causes	...	... 12	
  - 14.—Deaths of Infants under one year of age per 1,000 live births—
 

Legitimate	... 65	Illegitimate	... 94	Total	... 66
------------	--------	--------------	--------	-------	--------
  - 15.—Deaths from Measles (all ages)   ...   ... 5   ... Rate 0.04
  - 16.—Deaths from Whooping Cough (all ages)   ... 4   ... Rate 0.03
  - 17.—Deaths from Diarrhoea (under two years of age) 2   ... Rate 0.02
- NOTE.—"Rate" = per 1,000 per annum. All rates are calculated on the Registrar General's figure.

## NATURAL AND SOCIAL CONDITION OF THE DISTRICT.

Population Census, 1921	...	...	...	...	...	110,102
Estimated 1928 Registrar General's figure	...	...	...	...	...	113,000

Physical Features and General Character of the District, see Annual Report, 1914.

Chief Occupation of Inhabitants—Woollen Manufacturing, and Synthetic Dyes and Engineering.

Poor Law Relief—Conducted by the Guardians of the Poor.

## SANITARY ACCOMMODATION IN HUDDERSFIELD.

	1924	1925	1926	1927	1928
Number of clean water closets, including trough closets ...	14,859*	16,551*	19,128*	21,559*	23,444*
Number of waste water (slop) closets ...	196	191	179	177	171
Number of tub closets ...	12,762†	10,904†	8,418†	6,904†	5,596†
Number of tubs in use ...	13,193†	11,149†	8,666†	7,064†	5,632†
Number of ashpits in use ...	63‡	28‡	74‡	70‡	41‡
Number of ashbins in use ...	22,726†	23,940†	25,449†	26,463†	29,972†
Number of existing privy middens ...	195†	184†	191‡	186†	173†

\* These figures are supplied by the Waterworks Manager.

† This information was supplied by the Cleansing Superintendent.

‡ Increase due to Census of privies being taken, and a number found to be emptied by farmers, and not previously emptied by Corporation.

### Closet conversions during the period 1915–1928 carried out under Sanitary Notices.

Privies with fixed receptacles converted to clean water closets	152
Privies with movable receptacles converted to clean water closets	935
Slop water closets converted to clean water closets ...	10

During the year the Corporation have proceeded with the scheme for converting Tub Closets to the Water Carriage System, viz :—

Where the conversion is done voluntarily by the owner a grant of £10 is made.

When advantage is not taken of the above system, conversions are being carried out by the Corporation, the owners bearing the cost of structural alterations and re-laying of defective drains.

The number of conversions carried out during the year, under the Scheme, are as follows:—

Privies with movable receptacles converted under Corporation Scheme :

By Owners, under £10 scheme	...	...	...	...	383*
„ Conversions Officer	...	...	...	...	958†

Slop water closets converted :

By Owners, under £10 scheme	...	...	...	...	6*
-----------------------------	-----	-----	-----	-----	----

\* These figures are supplied by the Cleansing Superintendent.

† These figures are supplied by the Conversions Officer.

NOTE.—In every case where a sufficient sewer and water supply is available, all new closets erected must be on the water carriage system, and be flushed with clean water.

### REMOVAL OF NUISANCES.

Drains requiring Re-construction	...	...	...	...	99
„ „ connecting with main sewer	...	...	...	...	21
„ not efficiently trapped	...	...	...	...	1
„ requiring Ventilation Shafts	...	...	...	...	17
Defective Sink Pipes and Drains	...	...	...	...	215
„ Yard Drains	...	...	...	...	116
„ Cellar Drains	...	...	...	...	21
„ Eave and Fall Pipes	...	...	...	...	47
„ Roofing	...	...	...	...	71
„ Walls	...	...	...	...	1
„ Water Closets	...	...	...	...	74
„ Woodwork or Plaster round Sink	...	...	...	...	12
„ Plaster	...	...	...	...	74
„ Floors	...	...	...	...	38
„ Stairs	...	...	...	...	1
Waste Pipes requiring Disconnecting	...	...	...	...	2
Fall Pipes requiring Disconnecting	...	...	...	...	15
To provide Eave and Fall Pipes	...	...	...	...	1
„ Sinkstones in Houses	...	...	...	...	20
Nuisances from want of drains	...	..	...	...	2
„ „ Water in Cellar	...	...	...	...	6
„ Cesspools	...	...	...	...	6



Nuisances from Street Gullies ... ..	5
„ Stagnant water ... ..	2
„ Defective Surface of Yard ... ..	8
„ Smoke ... ..	11
„ Poultry, Pigeons, and Animals ... ..	14
Offensive Accumulations ... ..	14
„ Ashpits and Privies ... ..	1
Urine Guards required ... ..	1
Closets requiring Lime-washing ... ..	1
Ashpits requiring Re-construction ... ..	1
„ requiring proper doors and covering ... ..	1
Closets „ „ „ „ ... ..	1
Old Privies requiring alteration to w.c. system ... ..	7
Tub Closets requiring conversion to w.c. system ... ..	400
Tippler Closets „ „ „ „ ... ..	6
Insufficient Closet Accommodation ... ..	46
Houses Overcrowded ... ..	3
„ Unfit for Habitation ... ..	6
„ Requiring Cleansing ... ..	17
„ Requiring Ventilation ... ..	93
„ Damp ... ..	55
„ Requiring Water Supply ... ..	3
Workshops requiring Ventilation ... ..	3
„ „ Lime washing ... ..	6
„ „ Cleansing ... ..	1
Bakehouses requiring Lime-washing or Cleansing ... ..	3
Factories and Workshops requiring Fire Escape ... ..	6
Total ... ..	<u>1575</u>

## SUMMARY.

	1st Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.	TOTALS.
No. of Premises where Notifiable diseases have occurred ... ..	356	253	231	455	1295
Do. inspected do. do.	303	216	207	423	1149
Do. disinfected do. do.	206	138	138	319	801
Do. flushed do. do.	241	221	158	348	968
Do. visited searching for fever ... ..	4602	29214	5650	906	40372
Number of re-visits where cases are isolated at home	3	21	8	4	36
Do. houses visited for Zymotic or other particulars	82	60	135	114	391
Total number of visits to infected houses ... ..	4893	29433	5931	1343	41600
Cases removed to Hospital, &c. ... ..	245	167	159	363	934
Number of Articles disinfected by Lyon's Disinfecter	7842	6918	2062	4937	21759
Number of visits in deaths from Phthisis ... ..	21	20	21	8	70
Do. Under one ... ..	26	22	22	15	85
Number of premises flushed by request of owners (paid for) ... ..	177	206	190	152	725
Other premises, yards or courts flushed ... ..	320	294	199	466	1279
Drains found choked by Flushers ... ..	196	233	207	230	866
Drains made clear ... ..	172	219	195	212	798
Number of applications received to empty Ashpits and Privies ... ..	7	7	6	3	23
Do. do. do. Receptacles	2	2	6	—	10
Nuisances reported to Public Health Department ...	161	182	194	163	700
Do. inspected ... ..	161	182	194	163	700
Inspection of premises where nuisances are found ...	205	243	343	290	1081
Do. premises where no nuisances are found ...	420	223	480	583	1706
Do. premises where offensive trades are conducted ... ..	44	58	98	104	304
Do. Cellar Dwellings ... ..	1	5	3	7	16
Do. Houses let in lodgings ... ..	12	6	20	11	49
Do. Common Lodging Houses ... ..	118	57	110	163	448
Do. Workshops ... ..	27	35	19	99	180
Do. Factories ... ..	11	14	29	82	136
Do. Schools ... ..	71	22	—	29	122
Do. Slaughter Houses ... ..	128	106	162	193	589
Do. Canal Boats ... ..	1	3	11	16	31
Do. Dairies and Milkshops ... ..	13	9	9	8	39
Do. Cowsheds ... ..	315	265	201	253	1034
Do. Bakehouses ... ..	2	137	16	133	288
Do. Markets and Shops ... ..	486	468	471	585	2010
Do. Van Dwellings ... ..	5	206	122	14	347
Re-visits to work in progress ... ..	362	397	547	855	2161
Visits to property under notice ... ..	946	758	1250	934	3888
Total number of Inspections of Premises ... ..	3167	3012	3891	4359	14429
No. of Entries in Report Books ... ..	150	188	225	179	742
Preliminary Notices to Owners ... ..	63	64	108	70	305
Number of Legal Notices issued for abatement or abolition of nuisances ... ..	36	44	37	115	232
Owners seen personally ... ..	255	240	360	325	1180
Summonses taken out ... ..	7	—	—	2	9
Sections of New Drains tested ... ..	24	30	32	41	127
Do. and satisfactory at first test ... ..	24	30	32	40	126
Old Drains tested ... ..	50	34	33	43	160
Do. and found sound ... ..	31	16	11	29	87
Do. and found defective ... ..	19	18	22	14	73
Smoke observations taken ... ..	1	3	1	2	7
Number of visits under Food and Drugs Acts ... ..	39	20	90	141	290
Food and Drugs—samples purchased ... ..	37	22	108	175	342
Do. do. adulterated ... ..	2	—	—	5	7
Water Samples taken for Analysis ... ..	—	—	—	2	2
Do. polluted ... ..	—	—	—	1	1
No. of visits under Fertilizers and Feeding Stuffs Acts	—	—	—	41	41
No. of visits under Rag Flock Act ... ..	—	—	—	4	4
No. of Animals inspected by Vet. Inspector ... ..	2217	1733	1308	1779	7037
Do. certified by Vet. Insp. to be tubercular	3	—	4	—	7
Samples for Bacteriological Examination ... ..	8	1	—	20	38

## DAIRIES, COWSHEDS AND MILKSHOPS.

*See Prefatory Letter, 1923 Annual Report.*



## FOOD INSPECTION.

### FOOD AND DRUGS ACTS, 1875 TO 1927.

#### Report of Action taken under the above-named Acts in the County Borough of Huddersfield during the year 1928.

#### 1.—ARTICLES ANALYSED.

New Milk ...	...	...	110	Of this number 5 were certified as adulterated
Butter ...	...	...	25	
Margarine ...	...	...	5	
Cream ...	...	...	16	
Borax ...	...	...	16	Of this number 4 were certified as adulterated
Lard ...	...	...	6	
Coffee ...	...	...	25	
Baking Powder ...	...	...	20	
Arrowroot...	...	...	10	
Pepper ...	...	...	11	
Cocoa ...	...	...	16	
Condensed Full Cream Milk			21	Of this number 1 was certified as adulterated
Dried Milk ...	...	...	1	This was certified as adulterated
Miscellaneous ...	...	...	72	
<hr style="width: 20%; margin: 0 auto;"/>				
Total	...	...	354	Of this number 11 were certified as adulterated

#### 2.—DETAILS OF SAMPLES REPORTED BY THE PUBLIC ANALYST TO BE ADULTERATED.

No.	Article.	Result of Analysis.	Proceedings.
1	New Milk (Formal)	Not genuine by reason of the addition thereto of at least 11.65% of water	Case heard Feb. 3rd, 1928. Defendant fined £2 10s. 0d.
2	New Milk (Formal)	Not genuine by reason of the addition thereto of at least 15.88% of water	Case heard Feb. 3rd, 1928. Defendant fined £2 10s. 0d.
48	New Milk (Formal)	Not genuine by reason of the abstraction of at least 1.6% Solids, not fat, or by the addition thereto of water.	Further sample taken (See No. 57).
57	New Milk (Formal)	Not genuine by reason of the addition thereto of at least 1.18% of water	Further sample taken which proved genuine.
72	Powdered Borax (Formal)	Contains not less than 70 parts Arsenious Oxide per million	Case heard Nov. 28th, 1928. Vendor fined £5 0s. 0d.

No.	Article.	Result of Analysis.	Proceedings.
150	Refined Borax (Informal)	Contains 70 parts Arsenious Oxide per million	Formal sample taken (See Nos. 96 & 97).
96	Refined Borax (Formal)	Contains 70 parts Arsenious Oxide per million	Further sample taken (See No. 97)
97	Purified Borax (Formal)	Contains not less 70 parts per million, Arsenious Oxide	Case heard Jan. 25th 1929. Vendor fined £2 0s. 0d and costs.
103	New Milk (Formal)	Not genuine by reason of the abstraction of at least 3.38% of its butter fat by the addition thereto of water	Further sample taken which proved genuine.
109	Dried Milk (Informal)	Not genuine by reason of the abstraction of at least 0.6% of its butter fat	Vendors written by Medical Officer of Health.
168	Condensed Full Cream Milk (unsweetened) Informal	The total milk solids are 0.5% lower than standard required by the Public Health (Condensed Milk) Regulations 1923	Formal sample taken which proved genuine.

### 3.—OFFENCES OTHER THAN ADULTERATION.—None.

### 4.—LEGAL PROCEEDINGS.

Date.	No. of Sample.	Offence charged.	Name of Defendant.	Result.
Feb. 3 1928	1	Selling new milk to which had been added at least 11.65% of water.	W. D.	Fined £2 10 0
Feb. 3 1928	2	Selling new milk to which had been added at least 15.88% of water.	W. D.	Fined £2 10 0
Nov. 28 1928	72	Selling powdered borax which contained not less than 70 parts arsenious oxide per million.	A. G. C. for N. (prop) S. & Co.	Fined £5 0 0
Jan. 25 1929	97	Selling purified borax which contained not less than 70 parts per million arsenious oxide.	N. L.	Fined £2 0 0 and costs



## INFORMAL PROCEEDINGS.

During the year 238 samples were obtained informally, and submitted to Public Analyst for analysis. These are included in the foregoing statements.

The nature and number of such samples were as follows :—

Butter	...	...	...	...	...	...	25
Coffee	...	...	...	...	...	...	25
Dried Milk	...	...	...	...	...	...	1
Margarine	...	...	...	...	...	...	5
Pepper	...	...	...	...	...	...	11
Baking Powder	...	...	...	...	...	...	20
Arrowroot	...	...	...	...	...	...	10
Pure Cream	...	...	...	...	...	...	16
Lard	...	...	...	...	...	...	6
Condensed Full Cream Milk	...	...	...	...	...	...	21
Condensed Machine Skimmed Milk	...	...	...	...	...	...	8
Ground Ginger	...	...	...	...	...	...	9
Cocoa	...	...	...	...	...	...	16
Pure Borax	...	...	...	...	...	...	10
Tea	...	...	...	...	...	...	6
Miscellaneous	...	...	...	...	...	...	49
							<hr/>
Total	...	...	...	...	...	...	238
							<hr/>

### INVESTIGATION OF THE BACTERIOLOGICAL CONTENT OF THE MILK SUPPLY.

During the year 1928, 31 samples of raw milk, 2 samples of sterilised milk, and 6 samples of pasteurised milk were submitted for bacteriological examination, with the following results :—

#### RAW MILK.

In 31 samples the average number of organisms per c.c. on gelatine at room temperature	...	...	4,173 096
Maximum number of organisms per c.c. on gelatine at room temperature	...	...	95,672,000
Minimum ditto	...	...	10,000
In 31 samples the average number of organisms per c.c. on agar at 37° C	...	...	671,420
Maximum number of organisms per c.c. on agar at 37° C	...	...	4,736,000
Minimum ditto	...	...	1,040

Twenty-two contained micro-organisms in 1/100 c.c. of milk indicating faecal contamination.

Two guinea pigs were inoculated from each sample. Evidence of tuberculosis was reported in two cases.

## STERILISED MILK.

1 sample—Bacteria per c.c.—Nil.	B. Coli absent.
1 sample—Bacteria per c.c. 1,344,000	B. Coli present in 0.01 per c.c.

## PASTEURISED MILK.

1 sample—Bacteria per c.c. 2,400,000.	B. Coli present in 0.01 per c.c.
1 sample—Bacteria per c.c. 4,632,000.	B. Coli present in 0.01 per c.c.
1 sample—Bacteria per c.c. 420,000.	B. Coli absent.
1 sample—Bacteria per c.c. 100,000.	B. Coli absent.
1 sample—Bacteria per c.c. 4,000.	B. Coli present in 0.1 per c.c.
1 sample—Bacteria per c.c. 115,000.	B. Coli present in 0.1 per c.c.

The earlier unsatisfactory samples were taken shortly after the installation of the pasteurising plant in a neighbouring locality.

Application for a licence to sell pasteurised milk under the Special Designations Regulations was not granted. It will probably be renewed.

MILK (SPECIAL DESIGNATIONS) ORDERS,  
1922 AND 1923.

One Licence to sell milk as "Certified" has been granted.

**MEAT INSPECTION.**

There are nine Private Slaughter Houses still in the Borough, and one Knacker's Yard. The whole of the nine Slaughter Houses are licensed, as is also the Knacker's Yard.

	In 1914.	In January, 1927.	In January, 1928
Registered ...	—	...	—
Licensed ...	13	10	9
Total ...	13	10	9

There is also a Public Abattoir. Constant supervision is kept at the Abattoir during killing hours, and the Private Slaughter Houses are visited by the District Inspectors when killing is likely to be taking place.

The number of carcasses condemned wholly or partly was 131 and 163 respectively. These were as follows:—

**Carcases Wholly or Partly Condemned and Destroyed.****Table A.**

Animals.	Wholly.	Partly,	Totals.
Cows ... ..	8	11	19
Heifers ... ..	3	5	8
Bullocks ... ..	2	6	8
Calves ... ..	32	—	32
Sheep ... ..	39	10	49
Pigs ... ..	47	131	178
	131	163	294

The diseases found in the carcasses in the Public Abattoir and throughout the Borough are enumerated in Table B.

**Table B.**

Disease.	Cows.	Bullocks.	Heifers.	Calves.	Pigs.	Sheep.	Totals.
Tuberculosis ... ..	18	4	5	1	156	—	184
Jaundice ... ..	—	—	—	3	11	—	14
Peritonitis ... ..	1	—	—	—	3	2	6
Pyæmia ... ..	—	—	—	3	1	2	6
Moribund (Accidents)	—	4	3	25	3	39	74
Emaciation ... ..	—	—	—	—	—	—	—
Swine Erysipelas ...	—	—	—	—	4	—	4
Strongylus Rufescens	—	—	—	—	—	6	6
	19	8	8	32	178	49	294

**Table C.**

The total weight of meat, unwholesome, or unsound, and destroyed was as follows :—

Beef ... ..	12,117 lbs.
Mutton ... ..	3,107 lbs.
Pork ... ..	8,450 lbs.
Veal ... ..	1,867 lbs.
Offals ... ..	12,612½ lbs.
Total	38,153½ lbs.

**Other Articles of Food.**

Fish ... ..	213 lbs.
Fruit ... ..	5 boxes.
Preserved Eggs	50 lbs.
Bacon...	409 lbs.
Rabbits ... ..	27 lbs.
Mussels ... ..	33 bags.
Cheese ... ..	2 lbs.
Tinned Foodstuffs	910 tins.



**TABLE D.**  
**Showing the Number of Animals Slaughtered, also Carcases Condemned in the Public Abattoir (1),  
 and Private Slaughter Houses (2).**

MONTHS.	1-PUBLIC ABATTOIR.										2-PRIVATE SLAUGHTER HOUSES.															
	ANIMALS SLAUGHTERED.					CARCASES CONDEMNED.					WEIGHT OF CONDEMNED CARCASES					ANIMALS SLAUGHTERED.										
	Cattle.	Calves.	Sheep.	Pigs.	Totals.	Cattle.	Calves.	Sheep.	Pigs.	Totals.	Cattle.	Calves.	Sheep.	Pigs.	Totals.	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Cattle.	Calves.	Sheep.	Pigs.	Totals.	
1928																										
January ...	571	79	1913	522	3985	—	2	1	3	6	—	120	80	418	618	45	4	99	390	538	45	4	99	390	538	
February ..	756	159	2549	727	4191	2	1	6	3	12	1240	50	492	355	2137	51	8	82	224	365	51	8	82	224	365	
March ...	586	133	1992	588	3299	2	3	6	3	14	1189	170	434	336	2129	43	7	98	181	329	43	7	98	181	329	
April ...	589	131	1915	453	3088	2	6	6	5	19	1070	342	525	510	2447	29	2	83	238	352	29	2	83	238	352	
May ...	732	135	2500	494	3861	1	5	1	4	11	560	240	80	667	1547	54	10	117	193	374	54	10	117	193	374	
June ...	522	69	2204	335	3130	1	—	1	7	9	546	—	70	910	1526	48	7	113	153	321	48	7	113	153	321	
July ...	493	81	2295	343	3212	1	7	4	1	13	575	462	290	101	1428											
August	1089	200	5286	790	7365	—	1	1	1	3	—	56	70	104	230	83	8	288	276	655	83	8	288	276	655	
September						—	—	2	5	7	—	—	136	561	697											
October	1273	315	4165	1517	7270	1	2	—	5	8	560	112	—	612	1284	105	7	277	410	799	105	7	277	410	799	
November	580	133	1725	1231	3669	2	1	7	6	16	1242	60	546	837	2685	38	2	95	310	445	38	2	95	310	445	
December	7191	1435	26544	7000	42170	13	32	39	47	131	7502	1828	3011	6141	18482	496	55	1252	2375	4178	496	55	1252	2375	4178	

PRIVATE SLAUGHTER HOUSES.—No. of Carcases Condemned, 6; Weight of Condemned Carcases, 1351 Lbs.

## FACTORIES, WORKSHOPS, WORKPLACES, AND HOMEWORK.

### 1.—INSPECTION.

Including Inspections made by Sanitary Inspectors or  
Inspectors of Nuisances.

Premises.	Number of		
	Inspections.	Written Notices.	Prosecutions
<b>Factories</b> ... .. (Including Factory Laundries)	136	25	—
<b>Workshops</b> ... .. (Including Workshop Laundries)	488	17	—
<b>Workplaces</b> ... ..	—	—	—
<b>Total</b> ... ..	624	42	—

### 2.—DEFECTS FOUND.

Particulars	Number of Defects.			Number of Prosecutions
	Found.	Reme- died.	Referred to H.M. Inspector	
<i>Nuisances under the Public Health Acts* :—</i>				
Want of cleanliness ... ..	16	16	—	—
Want of ventilation ... ..	2	2	—	—
Overcrowding ... ..	—	—	—	—
Want of drainage of floors ... ..	—	—	—	—
Other nuisances, including emission of black smoke ... ..	45	44	—	—
Sanitary accommodation {	insufficient ...	7	4	—
	unsuitable or defective ...	55	49	—
	not separate for sexes ... ..	6	3	—
<i>Offences under the Factory and Workshop Act :—</i>				
Illegal occupation of underground bakehouses (S. 101) ... ..	—	—	—	—
Breach of special sanitary require- ments for bakehouses (SS. 97 to 100) ... ..	—	—	—	—
Other offences, including escape in case of fire— (Excluding offences relating to out- work which are included in Part 3 of this Report).	6	4	—	—
<b>Total</b> ... ..	137	122	—	—

\* Including those specified in sections 2, 3, 7, and 8 of the Factory and Workshop Act, 1901 as remediable under the Public Health Acts.





## CLASSIFIED LIST OF WORKSHOPS.

	On Register Dec. 31st, 1927		Added during 1928.		Removed during 1928.		Remaining Dec. 31st 1928.	
	Central District	Outer Districts	Central District	Outer Districts	Central District	Outer Districts	Central District	Outer Districts
Dress and Mantle Makers and Milliners, Tailors, Waterproof Manufacturers, &c. ... ..	134	57	—	1	8	—	126	58
Boot and Shoe Makers, Cloggers, Saddlers and Carriers ... ..	46	73	1	—	3	1	44	72
Black, Shoeing, Tin, and White Smiths; Cycle Repairs, &c. ... ..	55	44	1	1	2	—	54	45
Joiners, Cabinet Makers, Wood Carvers, Picture Framers and Gilders ... ..	29	30	2	—	3	1	28	29
Plumbers, Painters and French Polishers ... ..	42	26	—	1	3	—	39	27
Coopers, Carriage Builders, and Wheelwrights Watchmakers, Jewellers, Engravers, and Electrical Engineers ... ..	6	6	—	—	—	—	6	6
Rug Makers and Rag and Wool Sorters ... ..	24	5	—	—	—	1	24	4
Upholsterers, Basket and Brush Makers ... ..	23	8	—	—	1	1	22	7
Hosiery Kniters, Shirt Makers, and Laundries Monumental Sculptors ... ..	28	5	—	—	2	1	26	4
Organ Builders, Piano Repairers, &c. ... ..	4	5	—	—	—	—	4	5
Tripe Dressers ... ..	1	4	—	—	—	—	1	4
Bakehouses ... ..	6	—	—	—	—	—	6	—
Manufacturing Chemists; Mattress, Corset, Blind, and Waggon Cover Makers; Wire Workers, Tea Packers, Teazle Trimmers, Rope Makers, Tallow Chandlers, &c., &c. ... ..	6	1	—	—	—	—	6	1
	39	88	1	3	1	2	39	89
	48	23	2	1	1	1	49	23
	491	375	7	7	24	8	474	374
	866		14		32		848	



## CANAL BOATS ACTS, 1877 and 1884.

### Huddersfield Registration District.

(1). Arrangements made for the inspection of boats, the name, address, and remuneration of the Inspector.

Ernest Richardson, Public Health Department, Huddersfield, was appointed Inspector of Canal Boats on the 10th day of October, 1917, and the remuneration for the work is included in his salary as Sanitary Inspector.

(2). The number of boats inspected during 1928, was 19, and of inspections 27.

The 19 boats were made up of 6 broad boats and 13 fly boats, the last being all broad boats.

The places of registry were:—Goole, 17; Mirfield, 1; Hull, 1. With two exceptions the boats inspected were found in good condition and conforming to the Acts and Regulations and the occupants of all the boats in good health.

The infringements discovered on the two boats were remedied after warning notice.

(3). Infringements of the Acts and Regulations with respect to the following matters:—

- (a) Registration.—None.
- (b) Notification of change of master.—None.
- (c) Masters without certificate.—One.
- (d) Marking.—One.
- (e) Overcrowding.—One.
- (f) Separation of sexes.—None required.
- (g) Cleanliness.—None.
- (h) Ventilation.—Nothing to complain about.
- (i) Painting.—None.
- (j) Provision of water casks.—All boats provided.
- (k) Removal of bilge water. This work received regular attention.
- (l) Notification of infectious disease.—None.
- (m) Admittance of Inspector. No difficulty experienced.

(4). Legal proceedings taken.—None.

(5). Any other steps taken to secure compliance with the Acts and regulations.—Two notices served.

Matters of cleanliness of minor moment have received prompt attention at the instigation of the Inspector.

(6). Infectious diseases.—None.

(7). Detention of boats.—None.

(8). (a) Number of boats on the register.—Ten.  
Number of boats in use or available.—Ten.  
Propelled by motor.—None.

(b) Number of boats that cannot be traced.—None.

(9). Number registered during 1928.—None.

E. RICHARDSON,  
Inspector under the Canal Boats Acts.

Public Health Department,  
Huddersfield,

January 22nd, 1929.

## CANAL BOATS ACTS, 1877 AND 1884.

Summary Appendix to the Annual Report of the Canal Boats  
Inspector for the year 1928.

	1928	1927	1926
Number of boats inspected	19	11	28
Made up of Broad Boats	6	2	3
Broad Fly Boats	13	9	15
Narrow Boats ..	—	—	10
Narrow Fly Boats	—	—	—
Registered Accommoda- tion—Aft Cabin ..	90	58½	123½
Centre Cabin ..	—	—	—
Fore Cabin ..	71	42	86
	161	100½	209½
Population found on board			
Adults .. ..	65	35	79
Children .. ..	5	—	—
	70	35	79
Children under school age	4	None	None
Number of children of school age .. ..	1	None	None
Number of days on which inspections have been made .. .. .	13	6	14
Number of inspections made .. .. .	27	16	48
Number of boats conform- ing to Acts and Regula- tions .. .. .	17	11	28
Number of boats with one or more infringe- ments .. .. .	2	None	None
Number of infringements met with .. ..	3	None	None
Number remedied ..	3	None	None
Number dealt with by magistrates .. ..	None	None	None
Number still under Notice December 31st .. ..	None	None	None
Number service effected..	None	None	None



## HOUSING.

## NUMBER OF NEW HOUSES ERECTED DURING THE YEAR 1928.

(a) Total (including numbers given separately under (b) ...	668*
(b) With State assistance under the Housing Acts, 1923, 1924, 1925—	
(i) By the Local Authority ... ..	314*
(ii) By other bodies or persons ... ..	171*

The Corporation have a scheme for building 1,500 houses under the Housing and Town Planning Acts. The following list shews the number of houses erected by the Corporation and in course of erection since 1914 :—

## LIST OF HOUSES ERECTED BY THE CORPORATION.

				Erected.	In course of erection.	
1914	...	...	...	94	...	—
1915	...	...	...	70	...	—
1916	...	...	...	10	...	—
1917	...	...	...	0	...	—
1918	...	...	...	0	...	—
1919	...	...	...	26	...	—
1920	...	...	...	77	...	—
1921	...	...	...	98	...	—
1922	...	...	...	99	...	—
1923	...	...	...	94	...	—
1924	...	...	...	69	...	—
1925	...	...	...	118	...	—
1926	...	...	...	110	...	—
1927	...	...	...	154	...	—
1928	...	...	...	314	...	210
	Total	...	...	1333*		210

The following statement shews the number of houses for which plans have been submitted during 1928 by private enterprise in addition to those dealt with by the Sanitary Authority :—

Number of dwelling-houses by private enterprise, plans for which have been approved during 1928 ...	436
Number of these houses certified for occupation ... ..	116
Number of these houses in course of erection on Dec. 31st, 1928 ... ..	252
Number of these houses not being proceeded with ...	68
	436
Total number of houses built by private enterprise and certified for occupation during 1928 ... ..	354†
Total number of houses built by Local Authority and certified for occupation during 1928 ... ..	314
	668

\*This information was furnished by the Borough Architect.

†Of the dwellings certified for human habitation and erected by private enterprise during 1928, 324 were suitable for members of the Artisan class

## APPENDICES.

## HOUSING CONDITIONS.

Statistics.—Year ended 31st December, 1928.

## I.—GENERAL.

(1)	Estimated population	...	...	...	...	...	113,000
(2)	General death-rate	...	...	...	...	...	13.27
(3)	Death-rate from Tuberculosis	...	...	...	...	...	0.89
(4)	Infantile Mortality	...	...	...	...	...	66.00
(5)	Number of dwelling-houses of all classes	...	...	...	...	...	30,959
(6)	Number of working-class dwelling-houses	...	...	...	...	...	27,457
(7)	Number of new working-class houses erected	...	...	...	...	...	638

## 2.—UNFIT DWELLING-HOUSES.

## I.—Inspection :—

(1)	Total number of dwelling-houses inspected for housing defects (under Public Health or Housing Acts)	...	...	...	...	...	378
(2)	Number of dwelling-houses which were inspected and recorded under the Housing (Consolidated Regulations, 1925)	...	...	...	...	...	378
(3)	Number of dwelling-houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation	...	...	...	...	...	26
(4)	Number of dwelling-houses (exclusive of those referred to under the preceding sub-heading) found not to be in all respects reasonably fit for human habitation	...	...	...	...	...	315

## II.—Remedy of Defects without service of formal notice :—

	Number of defective dwelling-houses rendered fit in consequence of informal action by the Local Authority or its officers	...	...	...	...	...	1
--	---	-----	-----	-----	-----	-----	---

## III.—Action under Statutory Powers :—

## A.—Proceedings under the Housing Act, 1925, Section 3.

(1)	Number of dwelling-houses in respect of which notices were served requiring repairs	...	...	...	...	...	314
-----	---	-----	-----	-----	-----	-----	-----



(2)	Number of dwelling-houses which were rendered fit :—	
	(a) By owners (notices for which were served in 1924, 1925, 1926, 1927, 1928) ... ..	735
	(b) By Local Authority in default of owners ... ..	—
(3)	Number of dwelling-houses in respect of which closing orders became operative in pursuance of declarations by owners of intention to close ... ..	—
	B.—Proceedings under Public Health Act ... ..	—
	C.—Proceedings under Sections 9, 11 and 14 of the Housing Act, 1925 :—	
(1)	Number of representations made with a view to the making of Closing Orders ... ..	26
(2)	Number of dwelling-houses in respect of which Closing Orders were made ... ..	12
(3)	Number of dwelling-houses in respect of which Closing Orders were determined, the dwelling-houses having been rendered fit ... ..	—
(4)	Number of dwelling-houses in respect of which Demolition Orders were made ... ..	2
(5)	Number of dwelling-houses demolished in pursuance of Demolition Orders ... ..	—

### 3.—UNHEALTHY AREAS.

Areas represented to the Local Authority with a view to Improvement Schemes under (a), Part I., or (b), Part II. of the Act of 1890 ... ..	—
--	---

Staff engaged on Housing, with, briefly, the duties of each Officer :—

Two Inspectors engaged solely on Housing Work.

**HOUSING ACT, 1925.—Report of Work done from May 1st, 1911, to December 15th, 1928.**

Year.	No. of inspections from month to month.	No. of houses re-inspected.	No. of defects found.	No. of houses involved.	No. of defects remedied without notice.	No. of defects remedied after letter, P.H. Act 1875.	No. of defects remedied after Legal Notice, P.H. Act 1875.	No. of defects remedied after letter, H.T.P. Act 1909.	No. of defects remedied after letter Housing Act, 1925.	No. of defects remedied after Legal Notice, Housing Act, 1925.	No. of defects not remedied.	REMARKS.
1911	367	—	939	205	73	16	515	335	—	—	—	—
1912	460	—	1258	543	1	—	181	1076	—	—	—	—
1913	771	—	1956	731	—	—	1	1933	—	—	22	—
1914	294	30	1328	295	—	—	—	1265	—	—	63	—
1915	249	27	995	259	—	—	—	991	—	—	4	—
1916	288	—	1254	276	—	—	11	1241	—	—	2	—
1917	220	—	854	209	—	—	46	905	—	—	3	—
1918	53	—	301	52	—	—	22	259	—	—	19	—
1919	46	—	345	46	—	—	6	323	—	—	16	—
1920	39	22	364	39	—	—	—	340	—	—	24	—
1921	24	—	218	24	1	3	—	76	—	—	138	—
1922	85	307	1334	339	176	—	16	337	—	—	811	—
1923	45	—	164	44	6	—	—	142	—	—	16	—
1924	3	53	242	54	20	—	—	146	—	—	76	—
1925	34	—	154	32	—	—	—	61	—	93	23	—
1926	472	—	1947	453	5	—	—	—	—	1750	192	—
1927	405	37	937	316	—	—	—	—	—	638	275	—
1928	378	14	1313	341	1	—	—	—	—	361	939	—
	4233	490	15903	4258	283	19	793	9330	36	2842	2600	—

Number of houses inspected ... 4233  
 Number of houses re-inspected ... 490  
 Number of houses in which defects were found ... 4258  
 Number of houses in which no defects were found ... 465  
 Number of houses in which defects were wholly remedied ... 3473  
 Number of houses in which defects were partially remedied ... 321  
 Number of houses in which none of the defects were remedied ... 464

Total number of defects found ... 15903  
 Number of defects remedied ... 13303  
 Percentage number of defects remedied ... 83.650  
 Total number of defects not remedied ... 2600

**TABLE SHOWING THE CASE MORTALITY (i.e. Number of Deaths per 100 Cases) among Patients suffering from Scarlet Fever, Diphtheria and Typhoid Fever, treated in the Mill Hill Sanatorium, and among cases of the same diseases treated at home, from the Opening of the Hospital, April, 1899, to December 29th, 1928.**

Disease.	Cases Notified.	Removed to Hospital.	Cases Treated at Home.	Mortality per cent. in Hospital.	Mortality per cent. at Home.
Scarlet Fever ...	9001	8573	428	1.98	5.37
Diphtheria ...	3604	3182	422	6.25	25.83
Typhoid Fever ...	927	723	204	18.53	39.71

### MATERNITY AND CHILD WELFARE.

The additional Assistant Medical Officers of Health sanctioned by the Ministry of Health commenced duty on May 15th.

#### HOSPITALS AND OTHER INSTITUTIONS IN THE DISTRICT.

Name.	Situation.	Provided by.
Mill Hill Sanatorium for Infectious Diseases (120 beds) ... ..	Dalton	Huddersfield Corporation
Whitehouse Farm Small Pox Hospital (40 beds) ... ..	Do.	Do.
Bradley Wood Sanatorium for Tuberculosis. (Pulmonary Tuberculosis 44 beds. Surgical Tuberculosis in children, 24 beds) ... ..	Bradley	Do. (Children's block provided by the late Mr. John Sykes).
Huddersfield Municipal Maternity Home. (20 beds) ... ..	Central	Huddersfield Corporation
Huddersfield Royal Infirmary ... ..	Central	Maintained by voluntary subscriptions. (Annual subscription by Corporation)
Green Lea Maternity Hospital (Extension of Huddersfield Royal Infirmary) ... ..	Lindley	Do.
Crosland Moor Infirmary ... ..	Crosland Moor	Huddersfield Board of Guardians
Receiving Home for Children ... ..	Central	do.
Cripples' Homes ... ..	Lindley Moor	Maintained by voluntary subscriptions



**INSTITUTIONAL PROVISION FOR UNMARRIED MOTHERS  
AND ILLEGITIMATE INFANTS.**

Name.	Situation.	Provided by.
St. Katherine's Hostel, King's Mill Lane	Dalton	Maintained by voluntary subscriptions and Grant from Ministry of Health

**AMBULANCE FACILITIES.**

(a) Two Motor Ambulances are provided by the Sanitary Authority for the removal of Infectious cases.

(b) The Watch Committee provide Ambulances for Non-Infectious and Accident cases.

**CLINICS AND TREATMENT CENTRES.**

Name.	Situation.	Provided by.
Maternity and Child Welfare Centre Public Health Department ...	Central	Huddersfield Corporation. Operated by voluntary association of ladies.
School Clinic, Public Health Department (School Medical Service)	Do.	Huddersfield Corporation Education Committee.
Artificial Light Clinic, Public Health Department (School Medical Service) ... ..	Do.	Do.
Ophthalmic Clinic, Public Health Department (School Medical Service) ... ..	Do.	Do.
Tuberculosis Dispensary, 18, Ramsden Street ... ..	Do.	Huddersfield Corporation
Treatment Centre for Venereal Diseases, Huddersfield Royal Infirmary ...	Do.	Do.

## SANITARY ADMINISTRATION.

Staff (exclusive of School Medical Service) :—

Name	Qualifications.	Offices Held.	If contribution to salary is made under Public Health Act, or by Exchequer Grant
Dr. S. G. Moore... ..	M.D., M.R.C.P., Ch.B., D.P.H. ...	Medical Officer of Health. Chief School Medical Officer. Chief Tuberculosis Officer. Medical Officer under Mental Deficiency Act. Medical Superintendent of Hospitals	$\frac{1}{2}$ of £200 Exchequer Grant.  $\frac{1}{2}$ of £50 Exchequer Grant.
Dr. Katherine A. Gill ...	M.B., B.S. (Lond.) ...	Senior Assistant Medical Officer of Health	50% Exchequer Grant.
Dr. Alice Steven ...	M.B., Ch.B. ... ..	Assistant Medical Officer of Health	Do.
Dr. Vera Fellowes ...	M.B., Ch.B. ... ..	Do.	Do.
Dr. Margaret R. Hanna	M.B., B.Ch., B.A.O., D.P.H. ... ..	Do.	Do.
Dr. Helen E. Ornstein	M.R.C.S., M.B., B.S. D.P.H.	Do.	Do.
Dr. George McCracken	L.R.C.P., L.R.C.S., L.R.F.P.S.	Resident Medical Officer, Bradley ... Wood Sanatorium	Do.
Mr. E. Richardson ...	Sanitary Inspector's Certificate R.S.I., Meat and Food Inspector R.S.I.	Chief Sanitary Inspector. Meat Inspector. Canal Boats Inspector. Inspector Fert. and Feeding Stuffs. Official Sampler Fert. and Feeding Stuffs. Inspector under Rag Flock Act.	—
Mr. D. Drake ... ..	Sanitary Inspector's Certificate R.S.I., Meat Inspection Certificate R.S.I.	Assistant Sanitary Inspector. Assistant Meat Inspector.	—
Mr. G. Foster ... ..	Do.	Do.	—
Mr. W. W. Townsend	Do.	Do.	—

Name.	Qualifications.	Offices Held.	If contribution to salary is made under Public Health Act, or by Exchequer Grant
Mr. H. Hoyland ...	Sanitary Inspector's Certificate R.S.I. & S.I.J.B.	Assistant Sanitary Inspector	—
Mr. J. V. Goodall ...	Sanitary Inspector's Certificate R.S.I.	Do.	—
Mr. T. A. Ellis ...	Sanitary Inspector's Certificate R.S.I. & S.I.J.B.	Assistant Housing Inspector	—
Mr. W. Wiles ...	—	Assistant Housing Inspector	—
Mr. F. Brook ...	Sanitary Inspector's Certificate R.S.I. & S.I.J.B.	Assistant Sanitary Inspector. Cowsheds Inspector	—
Mr. R. Porter ...	—	Removal Officer	—
Miss C. Vickers ...	General Trained. T.B. trained State registered	Tuberculosis Nurse ...	50% Exchequer Grant.
Miss M. Ibbotson ...	General Trained State Registered ...	Nurse for Sick Infants	Do.
Miss E. Batty ...	General Trained C.M.B.	Do.	Do.
Mr. B. Pilkington ...	—	Chief Clerk ...	} $\frac{1}{2}$ of £40 Exchequer Grant
Mr. R. Burns ...	—	Clerk ...	
Mr. B. W. Ingham ...	—	Do. ...	
Miss A. Berry ...	—	Do. ...	
Miss P. Brierley ...	—	Do. ...	
Miss N. Matthews ...	General Trained. Fever Experience. College registered.	Matron, Isolation Hospital	—
Miss E. Simpson ...	General Trained. Tuberculosis trained. State Registered. Member of the College of Nursing	Matron, Bradley Wood Sanatorium for Tuberculosis.	50% Exchequer Grant



## NURSING ARRANGEMENTS.

Nursing in the homes is carried out by the Queen Victoria Nurses' Association, who are not employed by the Sanitary Authority.

The nursing of sick infants under one year of age in their own homes is carried out by the Sanitary Authority, who employ two nurses for that purpose.

### Midwives.

Midwives are not employed or subsidised by the Sanitary Authority.

During the year under review 39 midwives (35 trained and 4 untrained) notified their intention to practice in the Borough.

### Maternity and Nursing Homes.

There are 5 Nursing and Maternity Homes registered in the Borough. Four applications have been refused.

### Maternal Mortality.

Very particular attention has been paid to the maternal mortality and morbidity in Huddersfield for a number of years. The following tabular statement has been included in earlier reports, but seems to be worthy of repetition :—

**Number of Confinements, Number of Deaths in Child-Bed and Deaths per 1,000 Births for the County Borough of Huddersfield during the present Century, 1901-1927.**

Period.	No. of Confinements.	No. of Deaths in Child-Bed.	Deaths per 1,000 Confinements.
1901—1927	53,748	308	5.73 (or 1 in 174)

**Number of Deaths in Child-Bed in Huddersfield where Pregnancy had been Notified, and Deaths in Child-Bed per 1,000 Notifications of Pregnancy for the period of 12 years, 1916-1927.**

Period.	No. of notifications of pregnancy.	No. of Deaths in Child-Bed in Huddersfield where pregnancy had been notified.	Deaths in Child-Bed in Huddersfield per 1,000 notifications of pregnancy.
12 years (1916—1927)	6,998	16	2.27 (or 1 in 437)

**Number of Deaths in Child-Bed in Huddersfield where Pregnancy had not been notified, and deaths in Child-Bed per 1,000 Births during the present Century, 1901-1927.**

Period.	No. of Births to Women whose pregnancy was not notified.	No. of Deaths in Child-Bed.	Deaths in Child-Bed in Huddersfield per 1,000 Births to Women whose pregnancy was not notified.
1901—1927	46,750	292	6.24 (or 1 in 160)

**Ante-Natal Work.**

A scheme of voluntary notification of pregnancy was instituted in 1916. During the period under review 683 notifications were received.

Each case is visited by an Assistant Medical Officer of Health, and subsequent re-visits are made where necessary.

Advice is given, and where medical treatment is considered necessary, the patient is referred to her family doctor.

The Scheme has been the subject of a special report. (Copy sent to Ministry of Health on 15th November, 1927).

**Prevention of Blindness.**

Work under Section 66 of the Public Health Amendment Act, 1925, is carried out by the Huddersfield & District Blind Society, which is registered under the Blind Persons Act, 1929.

**Puerperal Fever.**

Three cases of Puerperal Fever were notified during 1928, and each case was investigated. The death-rate from this disease was 0.00.

**Epidemic Diarrhœa.**

The number of cases notified in pursuance of the Huddersfield Corporation Act, 1880, section 65, was 4. One referred to an infant between the age of one and five years. Three deaths occurred from this disease.

**Whooping Cough.**

This is not recognised by the Sanitary Authority as a notifiable disease. Four deaths occurred from this disease, giving a death-rate of 0.03.

**Ophthalmia Neonatorum.**

CASES.						
Notified.	TREATED.		Vision Unimpaired	Vision Impaired.	Total Blindness.	Deaths.
	At Home.	In Hospital.				
22	22	—	20	2	—	—

**Laboratory Work.**

During the year 2,520 specimens were examined. Of these 39.44% were received from private practitioners, 32.38% from the Mill Hill Sanatorium, 4.80% from the Huddersfield Royal Infirmary, 3.02% from the Bradley Wood Sanatorium, and the balance forming 20.36% representing various specimens obtained by one or other member of the staff of the Public Health Department in the course of routine duty.

**Use of Anti-Toxin.**

Anti-toxin is supplied free of charge to medical practitioners on application at the Public Health Department.

**Vaccination.**

During the year 1928, 284 primary vaccinations, and 518 re-vaccinations were performed by Medical Officers of the Public Health Department under the Public Health (Small-pox Prevention) Regulations, 1917.



**LEGAL ACTS IN FORCE IN THE DISTRICT.**

(In addition to the general body of Sanitary Law which applies to Huddersfield as to the rest of the Country).

<b>Act.</b>	<b>Provisions.</b>	<b>Committee.</b>
Huddersfield Water Act, 1869	Waterworks and Water Supply	Waterworks and Health
Huddersfield Water Act, 1871	Waterworks	Waterworks
*Huddersfield Improvement Act, 1871 ... ..	Highways, New Streets, Sanitary Arrangements	Highways and Health
*Huddersfield Waterworks and Improvement Act, 1876 ...	Hospitals and Infectious Diseases	Health
*Huddersfield Improvement Act, 1880 ... ..	Infectious Diseases Conversion of Privies	Health
*Huddersfield Corporation Act, 1902 ... ..	Milk Supply and Ice Cream	Health
*Huddersfield Corporation Act, 1906 ... ..	Infectious Diseases, Provision of Dust-bins, Common Lodging Houses and Notification of Births	Health
Public Health Act Amendment Act, 1890. Section 22 adopted ... ..	Sanitary Accommodation in Factories, Workshops and Work-places	Health
*Public Health Act, 1925 ...	Sanitary Provisions Verminous Premises, Water Courses, Streams	Health

\* These Statutes include matters other than those stated here which are administered by other Corporation Committees.



**SANITARY CIRCUMSTANCES.****Water Supply.**

A full description of the Waterworks was given in the Annual Report of 1925.

During 1928, a shaft at Brow Grains, Meltham, has been sunk, where in times of drought, something like a total of 50,000,000 gallons can be pumped into Blackmoorfoot Reservoir.

The statement on page 45 of the Annual Report, 1925, that the whole of the supply is by gravitation is modified to the above extent.

The water supply is analysed at intervals by the Manager of the Sewage Works.

His reports are generally satisfactory.

**DRAINAGE AND SEWERAGE.****Sewerage.**

No important sewerage extensions have been carried out in the Borough during the year. Extensions of a minor character have been constructed, principally to provide drainage in connection with new housing estates.

**Sewage Disposal.**

During the year an extension has been made at the Sewage Purification Works, at Deighton. A "Bio-aeration Unit" having a nominal capacity of 1 million gallons has been installed for the treatment of the tank effluent. If the results of this new method of treatment prove satisfactory, the construction of further similar Units are to be proceeded with in the near future.

**SCAVENGING.**

A new refuse destructor is in course of erection.

**SCHOOLS.**

See separate report to Education Authority.

**RAG FLOCK ACTS, 1911 and 1928.**

There are four premises dealing with rag flock.

It was not found necessary to take any action under the Acts during the year 1928.

**FOOD EXAMINATION.**

The chemical examination of food is carried out in the laboratory of the Public Analyst; the bacteriological examination in the Public Health Department.

**PUBLIC HEALTH (PREVENTION OF TUBERCULOSIS REGULATIONS) 1925.**

No action called for.

**PUBLIC HEALTH ACT, 1925. SECTION 62.**

No action called for.

**TUBERCULOSIS.**

52 weeks ended December 29th, 1928.

Age periods.	NEW CASES.				DEATHS.			
	Pulmonary.		Non-Pulmonary		Pulmonary.		Non-Pulmonary	
	M.	F.	M.	F.	M.	F.	M.	F.
0	—	—	1	—	—	1	—	—
1	3	—	7	7	—	—	3	2
5	9	3	7	8	—	—	1	3
10	9	6	6	3	—	1	1	—
15	6	6	2	6	1	5	—	2
20	6	19	4	1	4	9	1	—
25	8	15	1	2	8	11	—	1
35	12	9	1	4	6	5	—	—
45	14	6	2	1	16	3	2	—
55	8	1	2	—	9	1	1	—
65 & upwards	2	1	—	1	3	—	—	—
Total at all ages	77	66	33	33	47	36	9	8

TABLE A.

Vital Statistics of Huddersfield during the Year 1928, and previous Years.

YEAR.	Population estimated to middle of each year.	BURRS.			Total Deaths registered in the District.		Transferable Deaths.		Nett Deaths belonging to the District.			
		Un-corrected Number.	Nett.		Number.	Rate.	of Non-residents registered in the District.	of Resi-dents not registered in the District.	Under 1 Year of Age.		At all Ages.	
			3	4					5	6	7	8
1911	108144	2126	2122	19.69	1664	15.44	84	55	281	132	1635	15.17
1912	109512	2060	2056	18.84	1540	14.11	94	61	199	97	1507	13.81
1913	110882	2196	2196	19.50	1681	14.92	101	84	227	103	1664	14.77
1914	112265	2030	2030	18.08	1690	15.05	104	63	227	112	1649	14.69
1915	112265	1940	1935	17.29	1796	16.05	90	124	212	109	1830	16.35
1916	115390	1905	1906	17.20	1747	15.71	156	83	198	103	1674	15.11
1917	107969	1646	1650	15.29	1475	13.29	123	79	132	80	1431	13.29
1918	105818	1575	1575	13.35	1737	16.41	105	130	158	100	1762	16.65
1919	105346	1519	1519	12.66	1701	15.81	107	98	144	95	1692	15.81
1920	112301	2106	2102	18.02	1546	13.81	111	62	169	80	1497	13.37
1921	116776	2040	2049	17.60	1607	13.80	126	70	178	87	1481	12.72
1922	111900	1837	1827	16.38	1503	13.47	101	67	137	74	1469	13.17
1923	111600	1752	1752	15.75	1459	13.11	115	60	126	72	1404	12.62
1924	111800	1666	1627	14.32	1625	14.31	102	64	159	97	1587	13.97
1925	112000	1660	1631	14.61	1576	14.11	160	78	112	69	1494	13.38
1926	111900	1617	1559	13.98	1494	13.19	126	56	90	58	1424	12.77
1927	112100	1609	1574	14.09	1685	15.08	135	117	117	74	1667	14.92
1928	113000	1573	1537	13.65	1543	13.70	150	102	102	66	1495	13.27

Area of District in acres }  
 (land and inland } 11875.  
 water)

Total population at all ages . . . 110102 }  
 Total families or separate occupiers . . . 27846 }  
 At Census of 1921.



**TABLE B.**  
Cases of Infectious Diseases notified during the year 1928.

Notifiable Diseases.	Cases notified in whole District.							Total Cases notified in each Township.						No. of Cases removed to Sanatorium from each Township.						Total Cases removed to the Sanatorium from inside the Borough.
	At all Ages.	At Ages—Years.						Huddersfield (including Central, Marsh, Fartown, Deighton and Bradley).	(H) Dalton	Almondbury.	(W) Lockwood.	Lindley.	Longwood.	1	2	3	4	5	6	
		Under 1.	1 to 5.	5 to 15.	15 to 25.	25 to 35.	35 and upwards.													
Anthrax .....	1	6	47	19	35	9	40	4	4	16	49	4	39	4	3	16	48	4	114	
Small Pox .....	117	1	45	107	52	53	170	15	34	31	8	6	158	15	34	30	8	6	251	
Cerebro Spinal Meningitis .....	1	..	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	
Diphtheria and Membranous croup...	264	7	45	107	52	53	170	15	34	31	8	6	158	15	34	30	8	6	251	
Erysipelas .....	49	..	1	6	33	9	32	3	5	8	1	..	275	44	47	40	11	14	431	
Scarlet Fever .....	441	1	76	269	60	35	281	44	49	40	13	14	275	44	47	40	11	14	431	
Typhus Fever .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Enteric Fever .....	15	..	..	7	7	1	12	1	..	2	..	..	11	1	..	1	..	..	13	
Encephalitis Lethargica	3	..	..	1	1	..	2	1	1	1	1	..	..	..	..	..	..	..	..	
Puerperal Pyrexia .....	16	..	..	2	14	..	12	1	1	1	1	..	..	..	..	..	..	..	..	
Puerperal Fever .....	3	..	..	1	2	..	2	1	1	..	..	..	..	..	..	..	..	..	..	
Pneumonia .....	146	5	26	27	10	65	92	8	14	24	7	1	..	..	..	..	..	..	..	
Diarrhoea (In Infants under 5 years of age)	4	3	1	..	..	..	3	..	1	..	..	..	..	..	..	..	..	..	..	
Ophthalmia Neonatorum	22	22	..	..	..	..	16	2	1	3	..	..	..	..	..	..	..	..	..	
Anterior Poliomyelitis	2	1	..	1	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	
Pemphigus Neonatorum	3	3	..	..	..	..	3	..	..	..	..	..	..	..	..	..	..	..	..	
Pulmonary { M .....	77	3	18	12	42	2	42	5	6	13	7	4	26	5	4	5	4	3	47	
{ F .....	66	..	9	25	31	1	36	7	6	12	2	3	24	3	3	6	2	1	39	
Total ..	143	3	27	37	73	3	78	12	12	25	9	7	50	8	7	11	6	4	86	
Tuberculosis:—																				
{ M ..	33	1	7	13	6	6	17	2	4	6	4	..	6	..	3	7	1	..	17	
{ F ..	33	..	7	11	7	1	19	4	7	3	..	..	17	3	..	2	..	..	22	
(Total	66	1	14	24	13	1	36	6	11	9	4	..	23	3	3	9	1	..	39	
Totals .....	1295	43	172	503	210	331	780	96	133	160	94	32	556	75	94	107	74	28	934	

Isolation Hospital, name and situation—Huddersfield Sanatorium, Dalton  
 Small Pox Hospital, name and situation—Whitehouse Farm, Dalton.  
 † Sanatorium for Tuberculosis—Bradley Wood Sanatorium, Bradley

Total available beds, 228.

† Including a block of 24 beds for surgical tuberculosis for children, provided by the late John Sykes, Esq.



TABLE C.

Causes of, and Ages at Death during the Year 1927.

CAUSES OF DEATH.	Nett Deaths at the Subjoined Ages of "Residents" whether occurring within or without the District.										Total Deaths whether of "Residents" or "Non-Residents" in Institutions in the District.					
	All Ages.	Under 1.	1 and under 2.	2 and under 5.	5 and under 15.	15 and under 25.	25 and under 45.	45 and under 65.	65 and upwards.	Infirmary.	Nursing Homes.	Maternity Home.	Bradley Wood Sanatorium.	Mill Hill Sanatorium.	Workhouse.	Total in Institutions.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
All causes—Certified . . . . .	1667	117	28	31	34	58	183	524	692	207	32	13	10	15	136	413
Uncertified . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Enteric Fever . . . . .	4	..	..	..	..	..	2	2	..	2	..	..	..	..	..	..
Small Pox . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	5
Anthrax . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles . . . . .	5	2	2	1	..	..	..	..	..	..	..	..	..	..	..	..
Scarlet Fever . . . . .	2	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..
Whooping Cough . . . . .	6	4	1	1	..	..	..	..	..	..	..	..	..	3	..	3
Diphtheria and Croup . . . . .	14	2	1	8	2	..	..	..	..	..	..	..	..	..	..	..
Influenza . . . . .	70	..	..	1	..	2	14	24	29	1	..	..	..	9	..	9
Erysipelas . . . . .	3	..	..	..	..	..	..	3	..	1	..	1	..	..	..	2
Phthisis (Pulmonary Tuberculosis) . . . . .	96	..	2	..	2	22	39	28	3	4	..	..	8	..	11	23
Tuberculous Meningitis . . . . .	5	2	..	1	1	..	1	..	..	3	..	..	..	..	3	6
Other Tuberculous Diseases . . . . .	14	..	1	3	1	2	4	1	2	8	..	..	1	..	1	10
Cancer, malignant disease . . . . .	153	..	..	..	..	..	5	81	67	17	5	..	..	..	12	34
Rheumatic Fever . . . . .	2	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..
Meningitis . . . . .	8	2	4	..	1	..	..	1	..	4	..	..	..	..	..	..
Organic Heart Disease . . . . .	215	..	..	..	4	1	26	100	84	15	..	..	..	..	1	5
Bronchitis . . . . .	173	6	..	4	1	2	6	48	106	..	..	1	..	..	12	28
Pneumonia (all forms) . . . . .	110	14	13	7	8	4	14	27	23	13	2	2	..	..	4	21
Broncho Pneumonia . . . . .	58	14	10	5	4	..	3	9	13	7	..	2	..	..	..	9
Other diseases of respiratory organs . . . . .	11	..	1	..	1	1	1	6	1	1	..	..	..	..	1	2
Diarrhoea and Enteritis . . . . .	1	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..
Appendicitis and Typhlitis . . . . .	6	..	..	..	1	1	1	2	1	5	2	..	..	..	..	7
Cirrhosis of Liver . . . . .	5	..	..	..	..	..	..	4	1	1	1	..	..	..	1	3
Alcoholism . . . . .	3	..	..	..	..	..	..	1	2	..	..	..	..	..	..	..
Nephritis & Bright's Disease . . . . .	65	..	1	..	1	2	9	27	25	8	1	..	..	..	1	1
Puerperal Fever . . . . .	1	..	..	..	..	..	1	..	..	..	..	..	..	..	8	17
Other accidents and diseases of Pregnancy & Parturition . . . . .	16	5	..	..	..	1	10	..	..	5	..	2	..	..	..	7
Congenital Debility and Malformation, including Premature Birth . . . . .	57	55	..	1	1	..	..	..	..	3	..	5	..	..	2	10
Violent Deaths, excluding Suicide . . . . .	52	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Suicide . . . . .	16	6	1	3	4	6	6	13	13	34*	1	..	..	..	1	36
Other Defined Diseases . . . . .	554	18	1	1	5	12	37	147	333	77	20	2	..	..	65	164
Diseases ill-defined or unknown . . . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Totals . . . . .	1667	117	28	31	34	58	183	524	692	207	32	13	10	15	136	413
Sub-Entries included in above figures.																
Encephalitis Lethargica . . . . .	3	..	..	..	1	..	..	2	..	..	..	..	..	..	..	..
Cerebro Spinal Meningitis . . . . .	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pneumonia (other than Broncho-pneumonia) . . . . .	52	..	3	2	4	4	11	18	10	6	2	..	..	4	12	

\* Includes 1 Murder.

TABLE D.

## Infant Mortality during the Year 1928.

Nett Deaths from stated causes at various ages under One Year of Age.

CAUSES OF DEATH.	Under 1 week.	1-2 weeks.	2-3 weeks.	3-4 weeks.	Total under 4 weeks.	4 weeks & under 3 months.	3 months & under 6 months.	6 months & under 9 months.	9 months & under 12 months.	Total Deaths under 1 Year.
All Causes—										
Certified .. .. .	45	11	3	7	66	13	7	7	9	102
Uncertified .. .. .	..	..	..	..	..	..	..	..	..	..
Small Pox .. .. .	..	..	..	..	..	..	..	..	..	..
Chicken-pox .. .. .	..	..	..	..	..	..	..	..	..	..
Measles .. .. .	..	..	..	..	..	..	..	1	1	2
Scarlet Fever .. .. .	..	..	..	..	..	..	..	..	..	..
Diphtheria and Croup .. .. .	..	..	..	..	..	..	..	..	..	..
Whooping Cough .. .. .	..	..	..	..	..	..	..	2	1	3
Enteritis .. .. .	..	..	..	1	1	..	1	..	..	2
Tuberculous Meningitis .. .. .	..	..	..	..	..	..	..	..	..	..
Abdominal Tuberculosis .. .. .	..	..	..	..	..	..	..	..	..	..
Other Tuberculous Diseases .. .. .	..	..	..	..	..	..	..	..	1	1
Congenital Malformations .. .. .	12	2	2	2	18	4	..	..	..	22
Premature birth .. .. .	17	2	..	..	19	3	..	..	..	22
Atrophy, Debility and Marasmus .. .. .	7	1	..	1	9	2	..	..	..	11
Atelectasis .. .. .	..	..	..	..	..	..	1	..	..	1
Injury at birth .. .. .	5	..	..	..	5	..	..	..	..	5
Erysipelas .. .. .	..	..	..	..	..	..	..	..	..	..
Syphilis .. .. .	..	1	..	1	2	..	..	..	..	2
Rickets .. .. .	..	..	..	..	..	..	..	..	..	..
Meningitis ( <i>not Tuberculous</i> ) .. .. .	..	..	..	..	..	..	1	..	..	1
Convulsions .. .. .	3	3	1	2	9	3	2	..	..	14
Gastritis .. .. .	..	..	..	..	..	..	..	..	..	..
Laryngitis .. .. .	..	..	..	..	..	..	..	..	..	..
Bronchitis .. .. .	..	..	..	..	..	..	..	2	1	3
Pneumonia (all forms) .. .. .	..	2	..	..	2	1	..	..	3	6
Suffocation, overlying .. .. .	..	..	..	..	..	..	..	..	..	..
Other Causes .. .. .	1	..	..	..	1	..	2	2	2	7
Totals .. .. .	45	11	3	7	66	13	7	7	9	102

Nett Births in the year  
 (legitimate 1484  
 illegitimate 53

Nett Deaths in the year of  
 (legitimate infants 97  
 illegitimate infants 5









TABLE III.

Return of Births and Deaths Registered during the thirteen weeks ended September 29th, 1928.

TOWNSHIPS	Census Population, 1921.	Estimated Population at the middle of the Year 1928.	Births Registered during the 13 weeks ended September 29th, 1928.	Deaths Registered during the 13 weeks ended September 29th, 1928.	AGE MORTALITY.			ZYMOTIC DISEASES.							Rate of Mortality per 1,000.								
					Under 1 year.	Over 1 and under 5 years.	Persons aged 65 years and upwards.	Small Pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Fevers.		Tuberculosis (all Forms).	Bronchitis, Pneumonia and Pleurisy.	Heart Diseases.	Cancer.	All other Diseases.	During the corresponding period.	During the 13 weeks ended Sept. 29th, 1928.	During the corresponding period.	During the 13 weeks ended Sept. 29th, 1928.
													Typhoid.	Other.									
*Huddersfield including Central, Marsh, Fartown, Deighton and Bradley	51,655	53,015	438	117	9	43	1	..	..	1	..	..	13	11	26	14	51	8.17	8.86	0.15	0.15		
Dalton	9,528	9,779	34	25	1	11	..	..	..	..	..	..	2	1	4	6	12	5.79	10.26	0.00	0.00		
Almondbury	15,637	16,048	51	41	4	19	..	..	..	..	..	..	4	3	8	7	19	7.31	10.25	0.25	0.00		
Lockwood	16,919	17,364	53	32	2	13	..	..	..	..	..	..	1	3	7	3	18	10.72	7.40	0.47	0.00		
Lindley	10,478	10,754	29	19	1	9	..	..	..	..	..	..	1	1	8	3	6	8.65	7.09	0.00	0.00		
Longwood	5,885	6,040	19	13	..	4	..	..	..	..	..	..	4	2	1	3	5	8.71	8.64	0.00	0.00		
Royal Infirmary	..	..	4	24	1	4	..	..	..	..	..	..	2	..	3	..	1	..	..	..	..		
Nursing Homes	..	..	23	4	..	2	..	..	..	..	..	..	..	..	..	..	6	..	..	..	..		
Maternity Home	..	..	46	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
Bradley Wood Sanatorium	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
Sanatorium for Infec. Diseases	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		
Crosland Moor Workhouse	..	..	12	34	..	16	..	..	..	..	..	..	4	3	8	3	16	..	..	..	..		
Deanhouse Workhouse	..	..	..	5	..	5	..	..	..	..	..	..	..	3	1	1	..	..	..	..	..		
West Riding Lunatic Asylums	..	..	..	2	..	1	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..		
Other Deaths of Huddersfield Residents occurring outside the Borough	..	..	..	11	1	2	..	..	..	1	..	..	..	..	2	1	7	..	..	..	..		
Borough	110,102	113,000	409	334	25	7	130	1	..	1	2	..	31	27	68	45	159	..	..	..	..		
Rate per 1,000 of Estimated Population	..	..	14.53	11.86	0.89	0.25	4.62	0.03	0.00	0.03	0.07	0.00	0.00	0.96	2.41	1.60	5.65	11.71	11.86	0.29	0.14		

Death Rate—Huddersfield, with Infirmary, Nursing Homes and Maternity Home 11.43 Deaths of Children under one year per 1,000 births, 61. Death Rate of 107 Towns, 9.36  
 " Dalton, with Sanatoria 10.67 " " previous corresponding period, 58. " (Zymotic) " 0.41  
 " Lockwood, with Crosland Moor Workhouse 15.26 Birth Rate " 17.50

\*Owing to the alterations in the Ward Boundaries made by the Council in January, 1908 (see Minutes, 15-1-1908) it is not possible to continue the division of the Huddersfield Township into the Districts, Central Marsh, Fartown, Deighton and Bradley as in former years. The other districts are, however strictly comparable with those of previous years.









TABLE VI.  
Death Rate per 1,000 per annum for 1928 and forty-eight previous years.

Year.	Estimated Population at the middle of the year.	From all causes and all ages.	Children under 1 year.	Children over 1 year and under 5 years.	In persons aged 10 years and under.	In persons aged 15 years and over.	ZYMOTIC DISEASES.									
							Small Pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Erysipelas.	Dysentery.	Diarrhoea.	Septicæmic Diseases.	Acute and Chronic Diseases.
1880	81,780	22.04	5.20	3.79	6.66	..	0.02	0.40	0.28	0.05	0.15	0.07	0.91	2.49	0.61	6.72
1881	82,113	20.35	4.07	2.82	6.54	..	0.00	0.09	0.21	0.04	0.42	0.13	0.38	1.26	0.75	6.50
1882	83,271	22.39	5.64	3.93	6.60	..	0.00	0.96	0.29	0.07	0.64	0.18	0.53	2.03	0.65	6.81
1883	84,450	21.38	5.14	3.09	6.52	..	0.00	0.39	0.08	0.04	0.55	0.18	0.44	1.68	0.58	7.65
1884	86,004	19.54	4.84	2.55	6.34	..	0.00	0.18	0.08	0.05	0.70	0.14	0.63	1.77	0.57	5.65
1885	87,327	20.05	4.62	2.84	6.79	..	0.00	0.65	0.13	0.05	0.29	0.11	0.20	1.42	0.74	6.50
1886	88,670	19.54	4.49	2.76	6.30	..	0.00	0.19	0.37	0.14	0.32	0.14	0.48	1.63	0.79	6.38
1887	90,034	22.99	5.06	4.42	6.70	..	0.00	1.39	0.35	0.46	0.68	0.10	0.41	3.39	0.51	7.26
1888	91,419	18.51	3.90	2.80	6.37	..	0.02	0.36	0.29	0.15	0.41	0.13	0.19	1.55	0.65	5.40
1889	92,825	18.79	4.15	2.78	6.33	..	0.00	0.98	0.28	0.13	0.16	0.11	0.36	2.02	0.38	5.95
1890	94,253	18.84	3.83	2.19	7.02	..	0.01	0.04	0.07	0.05	0.42	0.25	0.39	1.23	0.48	6.58
1891	95,410	23.02	4.52	3.51	8.04	..	0.00	1.12	0.31	0.05	0.62	0.16	0.14	2.40	0.67	7.66
1892	95,373	18.37	3.53	2.60	6.97	..	0.01	0.71	0.19	0.07	0.30	0.06	0.19	1.55	0.48	5.76
1893	95,336	17.84	2.37	2.05	6.82	..	0.02	0.26	0.26	0.03	0.14	0.15	0.55	1.41	0.38	5.55
1894	95,299	16.46	3.35	1.94	5.92	..	0.00	0.14	0.24	0.28	0.58	0.14	0.19	1.57	0.40	4.81
1895	95,261	17.89	3.58	1.95	7.00	..	0.00	0.13	0.21	0.20	0.22	0.06	0.54	1.36	0.47	5.17
1896	95,224	17.69	3.63	2.25	6.90	..	0.00	0.28	0.20	0.27	0.57	0.13	0.34	1.79	0.50	5.51
1897	95,187	17.56	3.39	1.74	6.81	..	0.00	0.27	0.35	0.22	0.21	0.17	0.35	1.57	0.48	5.05
1898	95,149	17.13	3.70	1.89	7.03	..	0.00	0.34	0.16	0.15	0.12	0.10	0.81	1.62	0.60	4.65
1899	95,112	17.63	3.79	1.41	7.44	..	0.00	0.12	0.07	0.05	0.59	0.25	0.95	2.04	0.52	4.74
1900	95,074	18.49	3.32	1.89	8.20	..	0.00	0.62	0.20	0.02	0.18	0.21	0.50	1.74	0.57	5.26
1901	95,351	16.64	3.02	1.23	..	4.38	0.00	0.14	0.06	0.06	0.02	0.19	0.94	1.41	0.61	4.46
1902	95,573	17.43	3.30	1.78	..	4.17	0.01	0.59	0.11	0.15	0.47	0.05	0.19	1.58	0.57	4.46
1903	97,808	16.25	2.78	1.32	..	4.29	0.02	0.00	0.00	0.15	0.14	0.16	0.08	0.82	0.66	4.41
1904	99,056	16.78	3.08	1.69	..	4.11	0.01	0.76	0.10	0.14	0.25	0.07	0.50	1.83	0.61	4.13
1905	100,317	16.05	2.69	1.29	..	4.17	0.00	0.05	0.11	0.11	0.17	0.17	0.46	1.07	0.58	4.15
1906	101,591	16.18	3.07	1.81	..	4.21	0.00	0.60	0.07	0.13	0.32	0.09	0.80	2.00	0.44	3.84
1907	102,887	15.61	2.07	1.11	..	4.23	0.00	0.10	0.06	0.08	0.18	0.11	0.49	0.71	0.50	3.95
1908	104,178	15.54	2.48	1.55	..	4.05	0.00	0.62	0.03	0.08	0.13	0.08	0.56	1.50	0.47	3.55
1909	105,492	14.64	2.11	1.27	..	4.12	0.00	0.17	0.09	0.19	0.14	0.10	0.25	0.94	0.55	3.47
1910	106,829	14.76	2.02	1.17	..	3.86	0.00	0.09	0.17	0.14	0.27	0.05	0.28	1.00	0.49	3.22
1911	108,144	15.17	2.61	1.20	..	4.40	0.00	0.16	0.15	0.20	0.10	0.07	0.14	1.83	0.50	3.16
1912	109,512	13.81	1.82	0.95	..	4.07	0.00	0.19	0.20	0.08	0.24	0.02	0.10	0.83	0.44	2.98
1913	110,882	14.77	2.02	0.97	..	4.49	0.00	0.22	0.06	0.05	0.07	0.08	0.33	0.82	0.57	3.64
1914	112,265	14.69	2.02	1.19	..	4.36	0.00	0.44	0.03	0.04	0.19	0.05	0.13	0.87	0.54	3.59
1915	112,265	16.35	1.89	0.90	..	5.27	0.00	0.20	0.00	0.16	0.08	0.01	0.24	0.69	0.33	4.78
1916	111,139	15.11	1.78	0.99	..	4.89	0.00	0.02	0.01	0.14	0.33	0.02	0.10	0.65	0.42	3.97
1917	107,969	13.29	1.22	0.81	..	4.33	0.00	0.27	0.01	0.10	0.01	0.09	0.11	0.59	0.51	4.14
1918	105,818	16.70	1.49	1.27	..	4.64	0.00	0.18	0.01	0.10	0.15	0.03	0.07	0.56	0.51	5.22
1919	105,346	15.81	1.34	0.85	..	4.99	0.00	0.02	0.00	0.07	0.04	0.03	0.04	0.23	0.43	4.63
1920	112,391	13.37	1.51	0.62	..	4.17	0.00	0.05	0.06	0.15	0.05	0.01	0.00	0.34	0.54	3.52
1921	110,776	12.72	1.52	0.49	..	3.14	0.00	0.01	0.01	0.09	0.06	0.03	0.12	0.34	0.39	3.16
1922	111,900	13.17	1.22	0.58	..	4.83	0.00	0.08	0.008	0.08	0.14	0.02	0.03	0.39	0.57	2.92
1923	111,600	12.62	1.13	0.23	..	4.55	0.00	0.03	0.02	0.03	0.05	0.04	0.03	0.23	0.48	2.98
1924	111,800	13.97	1.40	0.60	..	5.15	0.00	0.14	0.008	0.035	0.105	0.04	0.00	0.33	0.34	3.65
1925	112,000	13.38	1.00	0.49	..	5.14	0.00	0.07	0.01	0.03	0.06	0.01	0.00	0.18	0.51	2.96
1926	111,900	12.77	0.81	0.57	..	4.82	0.00	0.11	0.00	0.07	0.05	0.03	0.03	0.29	0.44	2.38
1927	112,100	14.92	1.05	0.53	..	6.19	0.00	0.04	0.02	0.12	0.05	0.04	0.01	0.29	0.61	3.49
1928	113,000	13.27	0.91	0.42	..	5.21	0.00	0.04	0.04	0.06	0.03	0.02	0.01	0.21	0.54	2.35



TABLE VII.

DISTRICTS	Mortality per 1,000 Persons Living at all Ages.																
	Birth-rate.	Children under 1 year.	1 to 5 Years.	Adults over 65 years.	Seven Zymotic Diseases	Constitutional Diseases.	Tuberculosis all forms.	Developmental Diseases.	Diseases of the Nervous System.	Diseases of the Circulatory System.	Diseases of the Respiratory System.	Diseases of the Digestive System.	Diseases of the Urinary System.	Diseases of the Reproductive System.	Violence.	Ill-defined and not Specified Causes.	Total from all Causes.
Huddersfield Township (with Infirmary and Nursing Homes and Maternity Home).....	15.41	1.10	0.49	4.30	0.11	2.04	0.95	1.29	1.42	2.25	1.84	0.85	0.91	0.15	0.91	0.40	13.12
Huddersfield Township (without Infirmary & Nursing Homes and Maternity Home) .....	10.71	0.70	0.19	3.80	0.09	1.36	0.85	1.02	1.27	2.10	1.65	0.21	0.74	0.06	0.38	0.23	9.95
Dalton (with Sanatoria).....	14.78	0.82	1.33	5.64	1.44	2.15	1.13	2.05	2.15	2.87	1.64	0.10	0.41	0.00	0.41	0.31	14.67
Dalton (without Sanatoria) .....	14.78	0.82	0.62	5.54	0.10	2.15	0.62	1.95	2.15	2.87	1.54	0.10	0.41	0.00	0.41	0.31	12.62
Almondbury.....	11.32	0.69	0.19	5.44	0.25	1.94	0.81	1.56	1.75	2.75	1.19	0.19	0.62	0.12	0.12	0.19	11.50
Lockwood (with Workhouse) .....	13.58	0.58	0.17	7.57	0.00	2.48	0.92	2.20	3.12	3.76	1.68	0.40	1.27	0.12	0.35	0.35	16.64
Lockwood (without Workhouse) ..	10.92	0.52	0.17	4.28	0.00	1.62	0.40	1.10	1.96	2.48	1.27	0.40	0.58	0.12	0.35	0.23	10.52
Lindley .....	12.04	1.03	0.19	4.94	0.00	1.87	0.37	1.49	1.77	2.43	1.49	0.19	0.93	0.19	0.09	0.28	11.10
Longwood.....	11.63	0.66	0.00	5.81	0.00	1.83	1.00	1.16	1.83	2.66	0.83	0.00	1.16	0.17	0.17	0.50	11.30
Total for Borough, 1928 .....	13.97	0.91	0.42	5.22	0.21	2.08	0.89	1.54	1.85	2.65	1.62	0.51	0.90	0.13	0.55	0.35	13.27
Total for 1927 .....	14.40	1.05	0.53	6.19	0.29	1.69	1.03	1.93	1.73	2.70	2.63	0.58	0.73	0.11	0.61	0.89	14.92

The above figures include persons belonging to Huddersfield who died outside the Borough classified to the localities in which they previously resided.



TABLE IX.

## Birth-rate, Death-rate, and Analysis of Mortality during the Year 1928.

(Provisional figures. The rates for England and Wales have been calculated on a population estimated to the middle of 1928, but those for the towns have been calculated on populations estimated to the middle of 1927. The mortality rates refer to the whole population as regards England and Wales, but only to civilians as regards London and the groups of towns).

	RATE PER 1,000 TOTAL POPULATION.		ANNUAL DEATH-RATE PER 1,000 POPULATION.										RATE PER 1,000 BIRTHS		PERCENTAGE OF TOTAL DEATHS.			
	Live Births.	Still-births.	All Causes.	Enteric Fever.	Small-pox.	Measles.	Scarlet Fever.	Whooping Cough.	Diphtheria.	Influenza.	Violence.	Diarrhoea and Enteritis (under 2 Years).	Total Deaths under One Year.	Certified by Registered Medical Practitioners.	Inquest Cases.	Certified by Coroner after P.M.	No Inquest.	Uncertified Causes of Death.
England and Wales .....	16.7	0.70	11.7	0.01	0.00	0.11	0.01	0.07	0.06	0.19	0.53	7.0	6.5	90.9	6.7	1.4	1.0	1.0
107 County Boroughs and Great Towns including London .....	16.9	0.70	11.6	0.01	0.00	0.15	0.02	0.09	0.09	0.17	0.48	9.6	7.0	91.0	6.5	1.9	0.6	0.6
156* Smaller Towns (1921 Adjusted Populations 20,000—50,000) .....	16.6	0.73	10.6	0.01	0.00	0.08	0.04	0.06	0.08	0.21	0.41	4.8	6.0	92.6	5.7	0.5	1.2	1.2
London .....	15.9	0.53	11.6	0.01	0.00	0.30	0.02	0.09	0.69	0.13	0.55	10.2	6.7	88.7	7.6	3.7	0.0	0.0

\* By the union of Morecambe M.B. and Heysham U.D. on the 1st October, 1928, the number of Smaller Towns is increased to 156.

This Table has been kindly furnished by the Registrar General of Births, Marriages, and Deaths.



TUBERCULOSIS SCHEME OF THE HUDDERSFIELD COUNTY BOROUGH COUNCIL.  
**TABLE X.**  
 RETURN SHOWING THE WORK OF THE DISPENSARY DURING THE YEAR 1928.

DIAGNOSIS.	PULMONARY.				NON-PULMONARY.				TOTAL.				
	Adults.		Children.		Adults.		Children.		Adults.		Children.		
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
A.—NEW CASES EXAMINED DURING THE YEAR (excluding contacts):—													
(a) Definitely tuberculous	52	49	11	6	11	15	18	16	63	64	29	22	
(b) Doubtfully tuberculous	—	4	10	9	1	—	3	3	1	4	13	12	
(c) Non-tuberculous	—	1	—	—	—	—	—	—	—	1	—	—	
B.—CONTACTS EXAMINED DURING THE YEAR													
(a) Definitely tuberculous	—	—	5	—	—	—	—	—	—	—	5	—	
(b) Doubtfully tuberculous	—	—	—	—	—	—	—	—	—	—	—	—	
(c) Non-tuberculous	—	—	4	4	1	—	1	1	1	—	5	5	
C.—CASES WRITTEN OFF THE DISPENSARY REGISTER AS													
(a) Cured	7	3	—	1	—	—	—	—	—	7	3	1	5
(b) Diagnosis not confirmed or non-tuberculous (including cancellation of cases notified in error)	—	4	8	12	2	—	2	2	2	4	10	14	
D.—NUMBER OF PERSONS ON DISPENSARY REGISTER ON DECEMBER 31st:—													
(a) Diagnosis completed	154	142	81	59	36	44	54	53	190	186	135	112	
(b) Diagnosis not completed	—	—	2	—	—	—	—	—	—	—	2	—	

1. Number of persons on Dispensary Register on January 1st, 1928	556	9. Number of patients to whom Dental Treatment was given, at or in connection with the Dispensary	—
2. Number of patients transferred from other areas and of "lost sight" of "cases returned	12	10. Number of consultations with medical practitioners:— (a) At Homes of Applicants	—
3. Number of patients transferred to other areas and cases "lost sight" of "cases returned	49	(b) Otherwise	91
4. Died during the year	73	11. Number of other visits by Tuberculosis Officers to Homes	76
5. Number of observation cases under A (b) and B (b) above in which period of observation exceeded 2 months	4	12. Number of visits by Nurses or Health Visitors to Homes for Dispensary purposes	1387
6. Number of attendances at the Dispensary (including Contacts)	1369	13. Number of (a) Specimens of sputum, &c., examined	148
7. Number of attendances of non-pulmonary cases at Orthopaedic Out-stations for treatment or supervision	—	(b) X-ray examinations made in connection with Dispensary work	18
8. Number of attendances, at General Hospitals or other Institutions approved for the purpose, of patients for "Light" treatment	—	14. Number of Insured Persons on Dispensary Register on the 31st December	273
(a) Other special forms of treatment	—	15. Number of Insured Persons under Domiciliary Treatment on the 31st December	20
		16. Number of reports received during the year in respect of Insured Persons:— (a) Form G.P. 17	2
		(b) Form G.P. 36	50



TABLE XI.

## RESIDENTIAL INSTITUTIONS.

(A) Average Number of Beds Available for Patients during 1928.

	Observation.	Pulmonary Tuberculosis			Non-Pulmonary Tuberculosis.		Total.
		"Sanatorium" Beds.	"Hospital" Beds.	Disease of Bones and Joints	Other Conditions.		
Adult Males ...	—	15	2	4	1	22	
Adult Females ...	1	10	2	4	4	21	
Children under 15 ...	6	10	—	16	8	40	
TOTAL ...	7	35	4	24	13	83	

(B) Return showing Extent of Residential Treatment during the Year 1928

	In Institutions on Jan. 1.		Admitted during the year.	Discharged during the year.	Died in the Institutions.	In Institutions on Dec. 31
	Child- ren	Adults				
Number of Patients ...	M.	12	35	28	3	16
	F.	10	35	31	—	14
Number of Observation Cases ...	M.	15	26	21	1	19
	F.	14	24	17	1	20
	M.	—	—	—	—	—
	F.	—	2	2	—	—
	M.	1	13	12	—	2
	F.	1	13	14	—	—
Total ...		53	148	125	5	71











**TABLE XIIIa.**

**PULMONARY TUBERCULOSIS.**

Annual Return showing in summary form the condition of all Patients whose case records are in the possession of the Dispensary at the end of 1928, arranged according to the years in which the patients first came under Public Medical Treatment for pulmonary tuberculosis, and their classification as shown on Form A.

Condition at the time of the last record made during the year to which the Return relates.	Previous to 1926.										1926.			1927.			1928.				
	Class T.B. Minus.			Class T.B. Plus.			Class T.B. Minus.			Class T.B. Plus.			Class T.B. Minus.			Class T.B. Plus.					
	Group 1.	Group 2.	Group 3.	Total (Class T.B. plus).	Group 1.	Group 2.	Group 3.	Total (Class T.B. plus).	Group 1.	Group 2.	Group 3.	Total (Class T.B. plus).	Group 1.	Group 2.	Group 3.	Total (Class T.B. plus).	Group 1.	Group 2.	Group 3.	Total (Class T.B. plus).	
ALIVE.	Adults	M.	3	—	—	—	3	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Children.	F.	2	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	
		M.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Adults.	M.	4	1	—	—	5	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Children.	F.	1	5	—	—	6	—	—	—	—	—	—	—	—	—	—	—	—	—	
		M.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Adults.	M.	7	14	—	—	21	12	5	4	2	11	13	6	3	—	9	7	8	17	
	Children.	F.	1	6	—	—	7	17	1	3	2	6	19	8	1	—	23	8	4	13	
		M.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Disease not arrested.	F.	8	—	—	—	8	16	—	—	—	12	12	—	—	—	18	—	—	—	
		F.	—	—	—	—	—	9	—	—	—	9	9	—	—	—	7	—	—	—	
CONDITION NOT ASCERTAINED DURING THE YEAR																					
LOST SIGHT OF OR OTHERWISE REMOVED FROM DISPENSARY REGISTER																					
	Adults.	M.	5	7	2	—	14	23	8	4	1	13	13	5	4	1	10	14	1	4	7
	Children.	F.	10	15	7	—	32	8	15	9	7	31	10	7	14	4	25	—	6	5	11
		M.	3	20	7	—	30	7	6	10	5	21	8	8	7	—	23	1	—	1	6
		F.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		F.	3	—	—	—	1	4	—	—	—	—	2	—	—	—	—	1	—	—	—
TOTALS	...	...	36	69	16	121	106	35	30	17	82	88	34	30	12	76	75	16	23	16	55



TABLE XIII b.

## NON-PULMONARY TUBERCULOSIS.

Annual Return showing in summary form the condition of all Patients whose case records are in the possession of the Dispensary at the end of 1928, arranged according to the years in which the Patients first came under Public Medical Treatment, and their classification as shown on Form A.

Condition at the time of the last record made during the year to which the Return relates.	Previous to 1926.					1926.				1927.				1928.										
	Bones and Joints.		Abdominal.		Other Organs.		Peripheral Glands.		Total.		Bones and Joints.		Abdominal.		Other Organs.		Peripheral Glands.		Total.					
	Adults.	Chil-dren.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.		
ALIVE.	Discharged as cured.	Adults.	M.	10	4	2	5	21																
		Chil-dren.	F.	9	4	1	8	22																
	Disease arrested.	Adults.	M.	9	—	—	1	11																
		Chil-dren.	F.	5	2	1	2	10																
		Adults.	M.	3	5	2	7	17																
		Chil-dren.	F.	3	1	1	7	12																
Disease not arrested.	Adults.	M.	2	1	1	2	6																	
	Chil-dren.	F.	3	1	2	—	6																	
TRANSFERRED TO PULMONARY	Adults.	M.	5	1	—	1	7																	
	Chil-dren.	F.	10	—	—	1	11																	
	Adults.	M.	—	—	—	—	—																	
	Chil-dren.	F.	—	—	—	—	—																	
CONDITION NOT ASCERTAINED DURING THE YEAR	Adults.	M.	—	—	—	—	—																	
	Chil-dren.	F.	—	—	—	—	—																	
	Adults.	M.	—	—	—	—	—																	
	Chil-dren.	F.	—	—	—	—	—																	
LOST SIGHT OF OR OTHERWISE REMOVED FROM DISPENSARY REGISTER	Adults.	M.	6	8	2	6	22																	
	Chil-dren.	F.	1	2	—	1	4																	
	Adults.	M.	1	—	—	—	1																	
	Chil-dren.	F.	2	—	—	—	2																	
DEAD.	Adults.	M.	1	—	—	—	1																	
	Chil-dren.	F.	2	—	—	—	4																	
	Adults.	M.	1	—	—	—	1																	
	Chil-dren.	F.	—	—	—	—	—																	
TOTALS	Adults.	M.	81	32	16	69	198																	
	Chil-dren.	F.	—	—	—	—	—																	
TOTALS		...	...	81	32	16	69	198	13	18	13	33	77	15	21	13	20	69	17	23	13	11	64	



















