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Contributors

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URBAN DISTRICT COUNCIL
OF
St. Annes-on-the-Sea.

Annual Report

BY

FREDK. BOOTH, M.D., C.M.,

Medical Officer of Health

FOR THE YEAR 1909.

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Annual Report

OF THE

Medical Officer of Health

FOR THE YEAR 1909.

*To the Chairman and Gentlemen of the Urban District Council
of St. Annes-on-the-Sea.*

GENTLEMEN,

I have the honour of submitting to you my Twentieth Annual Report on the Health, Mortality and Sanitary Condition of St. Annes-on-the-Sea, and in doing so I have pleasure in announcing that the healthiness and very low mortality which the district has enjoyed in past years has been well maintained.

The Population has again been estimated by the number of inhabited houses—allowing in each of the four wards the percentage of persons which was found to exist at the last census—and is as follows:—

Ward.	Inhabited Houses.		Empty or in course of erection.		Average per House.	Population.		Increase
	1909	1908	1909	1908		1909	1908	
North	374	354	29	23	5.0	1870	1770	100
South	778	764	34	35	5.65	4395	4215	180
East	681	658	19	14	5.0	3405	3290	115
West	188	179	16	18	7.2	1353	1289	64
Total...	2021	1955	98	90		11023	10564	459

It will be thus seen by the foregoing table that the population estimated in this way is 11,023, showing an increase over that of last year of 459.

The Births registered during the year were 151 in number, as compared with 153 last year, of which 80 were males and 71 females, producing a rate per 1000 of 13·7, being ·4 less than last year and 2·9 than the average of the past ten years.

The Deaths, including 8 residents who died outside the district and excluding 13 visitors to St. Annes who died within the district, were 98 in number, producing a rate of 8·8 per 1000, the same as last year, and ·6 less than the average of the past ten years.

The Births and Deaths, with their respective rates in each of the four wards, are as follow : -

Ward.	Birth.	Birth Rate.	Death.	Death Rate.
North ...	26 ...	14·0 ...	20 ...	10·8
South ...	34 ...	7·7 ...	25 ...	5·7
East ...	84 ...	24·6 ...	43 ...	12·6
West ...	7 ...	5·2 ...	10 ...	7·4

The Birth and Death Rate for England and Wales for the year 1908 were respectively 26·5 and 14·7, so that although we can congratulate ourselves on the very satisfactory Death Rate, our Birth Rate is very little more than half of what it should be, East Ward alone showing a proximity in this respect to the country.

The Births and Deaths occurring in the district, including those of Visitors, per month, were as follow :—

Month.	Births.	Deaths.
January	8	6
February	21	10
March	12	7
April	12	10
May	19	10
June	7	9
July	16	11
August	12	10
September.....	8	9
October	10	10
November	18	10
December	8	9
	—	—
	151	111

The Causes of Death were as follow :—

From diseases of the Nervous System	15
viz.: Cerebral Hæmorrhage	4
Cerebritis	1
Cerebral Thrombosis	1
Cerebral Tumour	1
Meningitis	2
Convulsions	3
Locomotor Ataxia	2
Neuritis... ..	1

From diseases of the Respiratory System	...	...	27
viz.: Phthisis	...	...	13
Pneumonia	...	...	7
Bronchitis	...	...	5
Croup	...	...	2
From diseases of the Circulatory System	...	...	25
viz.: Heart Disease	...	...	24
Syncope	...	...	1
From diseases of the Digestive System...	...	...	6
viz.: Hepatic Cirrhosis	...	...	1
Inflammation of the Bowels	...	...	2
Intussusception of the Bowels	...	...	1
Gastric Ulcer	...	...	1
Appendicitis	...	...	1
From diseases of the Urinary System	...	...	9
viz.: Bright's Disease	...	...	9
From Constitutional Diseases	...	...	7
viz.: Carcinoma	...	...	5
Acute Rheumatism	...	...	1
Pernicious Anæmia	...	...	1
From Developmental Disease	...	...	8
viz.: Senile Decay	...	...	6
Prematurity	...	...	2

From Infectious Disease ...	...	...	...	...	...	10
viz. : Tuberculosis ...	...	...	...	...	2	
Typhoid Fever	...	...	...	...	2	
Scarlet Fever	...	...	...	...	1	
Diphtheria ...	...	...	...	...	3	
Chicken-Pox ...	...	...	...	...	1	
Influenza ...	...	...	...	...	1	
 From Injuries ...	...	...	...	...	...	3
viz. : Lead Poisoning	...	...	...	...	1	
Motor Car Accident	...	...	...	...	1	
Burns ...	...	...	...	...	1	
 From Causes not ascertained ...	...	...	...	...	...	1

From the above it will be seen that 13 deaths resulted from Phthisis, producing a rate of 1·2 per 1,000, and 12 from other Respiratory diseases, making a rate of 1·1 per 1,000.

The ages at which death occurred, which may be seen in Table IV., show that 35 out of the 111 deaths in the district were over 65 years of age, and the deaths of Infants under one year were eight in number, showing a death rate per 1,000 births of 53, a most satisfactory figure when compared with that of England and Wales of 121.

The cases of Infectious Diseases notified during the year under the Compulsory Notification Act of 1889, and

including Measles, were 130 in number as compared with 141 last year, and were as follow:—

Month.	Scarlet			Typhoid			Puerperal	Erysipelas.	Tl.
	Fever.	Diphtheria.	Measles.	Fever.	Fever.				
Jan. ...	6	4	1	1	0	0	0	12	
Feb. ...	4	0	0	2	0	0	0	6	
Mar. ...	4	5	3	1	0	0	0	13	
Apr. ...	2	2	3	0	0	1	0	8	
May ...	0	0	7	1	0	0	0	8	
June ...	1	5	6	0	0	0	0	12	
July ...	2	1	22	0	0	0	0	25	
Aug. ...	3	0	19	1	0	0	0	23	
Sept. ...	2	0	3	1	0	0	0	6	
Oct. ...	3	0	1	0	0	0	0	4	
Nov. ...	2	0	0	1	0	0	0	3	
Dec. ...	2	0	6	1	0	1	1	10	
Total ...	31	17	71	9	0	2	0	130	

Measles, as will be seen from the above Table, was again chiefly prevalent during July and August, and is no doubt often imported into the district by visitors.

Scarlet Fever was notified 31 times, as against 33 last year, and was the cause of one death, that of a baby under one year old. The cause, in every instance, was inquired into, and in a number of instances were traced to outside infection, or indirectly to contact with someone who had been so infected.

Typhoid Fever occurred sporadically nine times during the year, and was the cause of two deaths. Investigation into the source of the disease showed that three at least of

the number had partaken of raw shell fish ; in one instance, cockles, and in the other two, mussels. The danger from this source is undoubtedly great, and I shall be very glad when the Sea Fisheries Board, who I believe are trying to obtain powers, will be able to stop the gathering and sale of shell fish from all polluted areas.

Diphtheria was reported 17 times as compared with three last year, the whole occurring in the first half of the year, and four of the cases in one family, where sanitary defects in the house were discovered. The others were scattered over the district with no apparent connection to one another, and no cause discoverable.

The Moss Side Hospital has again proved a great boon to the district, and 41 out of the 59 cases of infectious diseases for which the Hospital is intended, being 70 per cent., were sent there for isolation and treatment.

Disinfection of rooms, bedding, clothes, etc., has, as before, been carried out by the Sanitary Department of the Council, free of charge, not only after the usual infectious diseases, but also after Consumption or other prolonged illness, as, for example, Cancer.

School closure has had to be resorted to on one occasion, when the Infants' Department of the Heyhouses Endowed School was closed for three weeks, from June 23rd, owing to an outbreak of Mumps.

Decided progress has been made during the year towards the attainment of a Cottage Hospital for the district. A valuable plot of land, a little over two acres in extent, situated at the corner of Headroomgate Road and Ball's

Road, and therefore not only central but accessible to drainage, gas and electricity, has been generously given by the Lord of the Manor, Mr. J. T. Clifton. A public meeting has been called and a strong committee formed to consider the size and cost of the Hospital, and the best way of raising the money.

HEALTH DEPARTMENT.

Refuse removal from ashpits, privies, bins, &c., which is one of the most important works of this department, is at present carried out by five ashmen, with five carters and carts, and is fairly satisfactory. The bins, which are easily and quickly attended to, have been emptied weekly, or even oftener if required, but the ashpits, which are, in many instances, old-fashioned, difficult to enter, and often situated at a distance from the road, are frequently left for four or five weeks or even longer, and this may become, especially in hot weather, a nuisance and a danger to health, especially if garbage is thrown into them. Owing to the great superiority of bins from a health point of view appeals have been made from time to time to householders to convert the one to the other, and in August the following letter was sent out, which I am glad to say resulted in 103 ashpits being done away with. There are still, however, 950 in the district, and I trust that those to whom they belong will, for the sake of themselves as well as others, have them altered to bins.

“It has long been recognised by leading Sanitarians
 “that ashpits are very frequently a source of corruption
 “and consequent disease.

“Recent investigation has proved that ashpits are
 “the great breeding grounds [for] flies, which by first

“settling on putrifying matter, then on milk and other
 “forms of food, carry in this way a great amount of
 “disease, especially typhoid and diarrhœa. For this
 “reason Local Authorities throughout the country have
 “been endeavouring to get ashpits abolished, more
 “especially in places similar to St. Annes, which
 “depend more or less on their reputation as health
 “resorts for their prosperity and progress.

“I shall be glad to hear you are willing to fall in
 “with the wishes of the Council, and that you will at
 “once do away with the ashpits at your property and
 “substitute therefor galvanized dust bins (which will be
 “emptied once or twice weekly as necessity requires).
 “By so doing you will not only be conferring an
 “inestimable boon to your own tenants, but you will be
 “materially assisting the Local Authority in their
 “endeavour to maintain that enviable reputation for
 “health which the town at present enjoys, and to which
 “may undoubtedly be attributed its present position
 “amongst the leading health resorts of the county.

“I shall be glad to record your name as one willing
 “to lead the way in this most desirable reform.”

One difficulty in disposing of the refuse which we
 have had to contend with this year has been caused through
 the Destructor having become too small for the work it had
 to do, and I am pleased to report that this matter is under
 consideration.

The Surveyor reports that the following Main Sewers have been made during the year :—

	feet
St. David's Road South from Springfield Road to St. Thomas' Road	907
St. Andrew's Road South from Queen's Road to Osborne Road	290
Back St. Leonard's Road	203
Caryl Road	663
Back Lime Grove	310
Clarendon Road	645
Cam Street	144
St. Alban's Road	151
Knowles Road	570
Alexandra Road and Back St. David's Road S.	120
Clifton Street	559
Rossendale Road	172
Queen's Road	22
Total ...	4756

The following Roads have been constructed during the year :—

	feet
All Saints' Road	838
Wyre Street from Alexandra Road to St. Alban's Road	486
Lune Street from Wyre Street to No. 28, Rossendale Road	182
Cam Street	315
Tay Street	820
Queen's Road	661
St. David's Road South from end of asphalt to St. Thomas' Road	1267
Total ...	4569

There has been 90 new houses certified for habitation during the year.

The following Roads have been taken over by the Council during the year :—

	feet
Loud Street	132
Back Clifton Drive North	156
Park Road from No. 55 to Bromley Road ...	531
Orchard Road	621
Albert Road from Clifton Street to No. 50 ...	525
Hope Street	519
Wyre Street	519
Hodder Street	225
Tweed Street	423
Don Street	267
Bollin Street	192
Esk Street	177
Irwell Street	153
Royds Street	129
Nora Street	414
Darwen Street	651
Leven Street	171
Dee Street... ..	201
Eden Street	204
Back Glen Eldon Road	282
Roach Street	192
Lyne Street	219
Passage off Nelson St. between Nos. 35 & 37...	84
Do. do. Nos. 19 & 21...	84
Do. do. Nos. 14 & 16...	84
Do. do. Nos. 26 & 28...	84
Astland Street	330
Brown Street	189
Bolton Street	132
All Saints' Road	600
Total ...	8490

The main Drainage System has throughout the year been, with a few exceptions, satisfactory, though occasionally, when it is locked by a high tide and there occurs at the same time a heavy downfall, a certain amount of backing up of sewage has taken place. On this account and also owing to the rapidly increasing area which it is called upon to drain, the Council are seriously considering how best to deal with the trouble.

The opening up of the North Channel which, if only from a health point of view, is of great importance to the district, is also, I am pleased to say, receiving attention, and will, I trust, soon be proceeded with.

The Water Supply of the district, which is now entirely from the mains of the Fylde Water Board, has throughout the year been satisfactory, very few complaints, usually of turbidity from some local cause, having been made. Occasionally small fresh water shrimps have come through the taps which, though more a sign of the purity of the water than one of pollution, are still not appreciated by the consumer, and would be removed if the water at the Weeton reservoir was sieved.

The Inspection and Analysis of Food and Drugs, under the Sale of Food and Drugs Act, which is carried out by the County Constabulary, resulted in Ten Samples of Milk, One of Lard, One of Margarine, One of Pepper, One of Butter, and Three of Cream, being taken and analysed, all of which were found to be genuine, with one exception, viz.: One Sample of Cream was found to contain too much preservative, and the vendor in the case was cautioned.

The Public Schools have been periodically visited, and the extensive enlargement and improvement in heating and ventilation, which I reported were in progress last year, have been completed, making the building much healthier, as well as doing away with the overcrowding which formerly existed.

The Medical Examination of School Children, under Section 13 of the Education (Administrative provision) Act, 1909, has, I gather from the School Teachers, been carried out by someone appointed by the County Council.

The Quarterly Inspection of all Farms within the district, and the periodic examination of all Milk Cows by a qualified Veterinary Inspector appointed by the Council, which was instituted last year, has been continued during the year, with the result that the cowsheds are now kept in a much better sanitary condition, and all Tubercular or otherwise Diseased Milk Cattle are, as soon as discovered, removed. Samples of milk coming from outside the district have from time to time been taken and examined for Tuberculosis, so that the danger of causing Consumption and other Tubercular diseases is in this way greatly lessened. There is still, however, much room for improvement with regard to the air space, ventilation, and condition of the floor in many of the Cowsheds, and there are still a large proportion of farms unprovided with dairies for the storage of milk and milk vessels. The cleanliness of the Cowsheds, Cattle, and Milk Vessels, as well as the special cleanliness and care of those engaged in milking is also of the greatest importance, for it must be recognised that milk is a perfect food for germs, as well as people, and if the former are

introduced by any means they will increase with enormous rapidity. In order to bring this matter before those engaged in this occupation, I have, with the assistance of the Veterinary Inspector, drawn up the following suggestions, which are in fairly large print, glazed and attached to stiff cardboard, and are to be hung in each of the Cowsheds.

NOTICE TO COW-KEEPERS.

1. Before milking, the Hands should be thoroughly washed.
2. During milking, the Hands should be kept dry.
3. Overall should be worn whilst milking, which should be removed as soon as the milking is done, and washed at least once a week.
4. All Cattle should be groomed at least three times a week, and the Udder wiped with a clean damp cloth before each milking.
5. The Walls of the Cowshed, with the exception of that part behind the cattle, should be scraped and lime-washed at least twice a year (during May and October), and that part behind the cattle either scraped and limewashed frequently, or tarred or covered with some impervious material, which should be washed frequently.
6. The Boskins and Head-posts should be scraped and then scrubbed with hot water and soda at least twice a year, and all other woodwork should be well brushed and kept clean.
7. The Floor of the cowshed should be thoroughly swept and all dung and offensive matter removed as often as may be necessary, and not less than twice a day.

8. Utensils, such as barrows, spades, brushes, stools, etc., should be kept thoroughly clean, and milk carts washed at least twice a week.
9. All Milk Vessels and Utensils, should be thoroughly cleansed with steam or boiling water after each using, and the taps and mesh-work of sieves should be made movable, and cleaned frequently in like manner.
10. Milk should be immediately removed from the cowshed, and no kit allowed to stand there during milking.
11. Milk and Milk Vessels should not be kept in any kitchen, living or sleeping room, or in any place liable to be contaminated with impure air.
12. Any Cow with disease of the Udder should be milked last, or by a separate milker, and the milk of such cow should not be used for human consumption.
13. Any person suffering from Diarrhœa, Consumption, or any Infectious Disease or any Skin Disease of the hands, should not milk or be employed in the cleansing of milk vessels.

Annual Report
OF THE
Sanitary Inspector,
WILLIAM E. PROCTER.

*To the Chairman and Members of the St. Annes-on-the-Sea Urban
District Council.*

GENTLEMEN,

I have the honour to present to you my Eighth Annual Report of the work accomplished in the Sanitary Department during the year 1909.

House-to-house inspection has been made of 76 old houses, when several defects were located, including, amongst others, untrapped slop water pipes, defective water-closets, drains, gullies and yards. On making these inspections tenants were advised on the best methods of keeping any of their sanitary arrangements clean and in working order. No doubt these visits have had a beneficial effect upon occupiers when they were shown in a practical way how to keep their households in a hygienic condition.

397 Letters were sent out relating to Nuisances and other matters connected with the work of the Sanitary Department, and it is pleasing to note that the attention to any defects found at premises has been readily given by those persons responsible.

5 Legal Notices were served for the abatement of Nuisances.

215 Nuisances have been dealt with during the year, and 645 visits were paid to premises with the object of locating these defects, and for the purpose of supervising the work when in course of progress and completion. These nuisances included :—

	No.
Animals kept so as to be a nuisance ...	6
Bad smells from water closet cistern ...	1
Black smoke... ..	1
Blocked water closets	8
Dampness in walls	2
Defective :—	
Ashpits	27
Downspouts	5
Drains :	
Bath and Lavatory	2
Slop water	4
Wash-house	3
Water-closet	6
Yard	13
Floors	1
Gullies	1
Inspection Chambers	4
Manure Pits	2
Privies	32
Roofs	1
Slopstones	1
Slop water pipes	5
Soil-pipes	1
Soil-pipe Ventilators	2

Water-closets	5
Water-closet Fittings	23
Window Frames	3
Yards	27
Insanitary Chipped Potato and Fried Fish Premises	1
Insanitary Houses	3
Insanitary Yards	1
Insufficient Ventilation to water-closet ...	1
No Drain Ventilator	1
No Traps to waste water pipes	5
No Water Supply	2
Offensive Accumulations	6
Untrapped Gullies	2
Waste water lodging	7

One nuisance described in the above list, "Bad Smells from a Water-closet Cistern," was very difficult to locate. On entering the w.c. the offensive smells were observed, whilst the w.c. basin and fittings appeared to be in working order. The bad smell was intensified, however, when the w.c. chain was pulled, and an examination of the cistern eventually revealed the cause. Two birds, in almost a putrid state, were found in the bottom of the cistern, and every time the chain was pulled the evil-smelling liquid was discharged into the basin from the cistern.

Another serious nuisance arose from a fish-frying and chipped potato establishment. Endeavours were made to stop the proprietors from using the premises for this purpose, and ultimately the people gave up the business rather than run any risk of legal proceedings being instituted against them.

Privies in the district are becoming less in number, and this year 13 have been converted into water-closets and 19 abolished.

Dust Bins, which are found to be more sanitary and in every way more suitable for the district, are 1,100 in number, as compared with 897 last year, being an increase of 203. These are emptied weekly and sometimes bi-weekly.

Traders have their refuse removed twice a week, when no less than 400 bins, in addition to other receptacles, are dealt with.

The Cleansing of Receptacles and other Sanitary Work compares as follows with last year :—

	1908.	1909.
Ashbins Emptied	43276	50526
Ashpits Emptied	7458	5861
Privy Pails Emptied	3734	3484
Ashpits, Ashbins and Water Closets Disinfected	2468	2079
Ashpits Limewashed	482	280
Loads of Refuse taken to Destructor... ..	3269	3195
Loads of Good Ashpit Refuse taken to Tip	49	389
Dead Animals found on Shore	14	37

The loads of Refuse taken to Tip amounted to 389. This refuse consisted of good household ashes, which were tipped on the land adjoining the new road in Division Lane.

The Refuse Destructor has been in almost constant use, there having been 3195 loads of refuse consumed there. On two occasions, however, it was necessary to repair the inside brickwork of the furnaces, owing to their being subjected to an enormous amount of heat.

The Clinkers have been disposed of mainly for road making in the country districts, whilst the fine Clinker Ashes have been put upon the footpaths in the country, and some have been sold for road beds, under setts.

20 Tons of Old Tins from the Destructor have been disposed of. These tins are taken out of the refuse. They are then placed on the roadway at the Destructor and crushed by the steam roller, in order that they can be packed close together in the railway trucks for transit.

11 $\frac{1}{4}$ Tons of Scrap Iron were also picked out of the refuse and sent away by rail.

Workshops in the district are, on the whole, well adapted for the particular kind of work that is carried on there. In almost every instance when visiting these premises it was found that the ventilation, light and air space, were complete, and the workers were thus better able to carry out their duties efficiently. There are 40 of these workshops in the district, apart from the bakehouses.

Nine Observations were taken of the amount of smoke that issued from tall chimneys, each observation being of sixty minutes duration. The time limit for the emission of black smoke is ten minutes per hour, but this limit was never exceeded during the observations. One of the chimneys, being too low, allows smoke to enter the dwellings in that locality, and it is therefore intended to raise it so as to remove this nuisance.

The three Public Day Schools, viz.: The Heyhouses School, St. Thomas' School, and the Roman Catholic School have been visited weekly, and the walls sprayed with a disinfectant solution which has been found to keep the children more free from infectious trouble. The closet accommodation at two of the schools has been improved, and is now more carefully attended to.

68 Visits were made to the Farms, of which there are 23 in the district.

The cowsheds, on the whole, have been kept in a clean condition, and it has only been necessary to remind three of the farmers as to the lime-washing of the walls and ceilings.

70 Inspections have been made of the Bakehouses, which are well constructed, and in most instances have been specially built for the purpose of baking, hence no structural defects were found. The walls and ceilings of three of these premises required lime-washing, and the attention of the occupiers having been drawn to this matter, the work was afterwards carried out. On the whole the bakehouses are kept in a clean and sanitary condition.

Eight Samples of Milk were taken from the kits that came into the town from outside districts, in order to ascertain if there were any germs of tuberculosis in the milk.

During the year extensive internal alterations have been made at the Public Abattoirs, which are now well adapted for the process of slaughtering animals.

The cattle and sheep slaughtering hall, with lairages and cooling rooms, forms a separate building from the pig slaughtering hall, lairages and cooling room.

Instead of obtaining the steam for hot water from the Electricity Works as hitherto, an upright boiler has been fixed which provides steam to both slaughtering halls. These have walls of glazed bricks and all the floors are concreted, whilst the whole of the premises are lighted with electricity.

An attendant has been appointed, during the year, to attend to the boiler, collect all fees, and to insist on the bye-laws and regulations, respecting the Abattoirs, being carried out.

There are no Private Slaughter Houses within the district, so that all the animals slaughtered in the town are killed at the Public Abattoirs.

The Carcases of all animals killed at the Public Abattoirs have been inspected by me, and on the whole were of good quality. A few affected organs, amounting in weight to 151 pounds, were destroyed. All Frozen Meat coming into the district has also been inspected and found in good condition. 91 Sheep's Kidneys and one Chicken only have had to be condemned.

Owing to the ground for the Blackpool Aviation Meeting being situated in the district of St. Annes-on-the-Sea, it was my duty to inspect the sanitary arrangements, and also to carefully examine the food that was to be sold to the crowds of people visiting the ground.

Dwelling Vans arrive in the district occasionally, but they do not stay for any lengthy period. This year visits were paid to six of these travelling homes, and on inspection of the beds, bedding, the various kinds of utensils, and the insides of the vans were found to be in clean condition.

Visits were paid to three Camps, and on inspection of the tents they were found clean, and the sanitary arrangements satisfactory.

Legal proceedings had to be resorted to on three occasions. One case was that of an owner not having water laid on at two of his houses. An order was made by the court, but the work was not done during the time specified, eventually, however, the man carried out the necessary work. Two butchers were summoned for contravening the Council's bye-laws relating to Slaughter Houses, and each person was fined ten shillings and costs. A person established a Marine Store in the district without obtaining the permission of the Council, the magistrates dismissed the case, but insisted upon him registering under the Merchant Shipping Act.

118 Soil-pipes and Drains were tested, when 55 defective joints were located. Owners had their attention drawn to these defects, all of which were remedied in due course.

90 New Buildings were inspected when completed, to ascertain if the premises were fit for habitation.

299 Rooms have been fumigated, whilst 1,708 articles have been disinfected at the Steam Disinfector.



METEOROLOGICAL CONDITIONS.

January ... A fairly dry, but cold month. Frost on grass on 14 nights, and in the screen on 7 nights. Similar amount of rainfall and sunshine to last year.

- February* ... Exceptionally cold and dry month. A larger amount of sunshine, but less rain than last year. Frost on grass on 23 nights, and in screen on 4 nights.
- March* Unsettled weather. Snow fell on the 3rd, the 6th, and again on the 17th. Frost on grass on 17 nights, and in screen on 6 nights. Similar amount of rain and sunshine to last year.
- April* A brighter month than last year. No frost. Similar amount of rain to last year.
- May* A dry month. Less rain than last year and much more sunshine. No frost in screen, but frost on grass on 6 nights.
- June* A somewhat dry month. The weather was beautiful from the 7th to the 16th, inclusive. Sunshine was similar in amount to last year. No frost. Thunderstorm on the 23rd, from 10 to 12 a.m. A few hailstone showers fell during the following morning.
- July* A wet month. More rain than last year and less sunshine, although bright sunshine was recorded every day. No frost.
- August* Changeable weather, although for the first 14 days it was very fine. Bright sunshine was recorded on 29 days, although slightly less in amount as compared with last year. Very heavy thunderstorm on 16th, from about 5 a.m. to 11 a.m.

September... The weather was varied in character. From the 7th to the 22nd, inclusive, was fine. There was more rain and sunshine last year.

October A wet month. Rain fell on 23 days. There was a less amount of sunshine than last year. Frost on grass on 3 nights, and in screen on 1 night.

November ... A cold dry month, free from fog. Sunshine was in excess of last year, whilst very little rain fell. Frost on grass on 16 nights, and in screen on 11 nights.

December ... An exceptionally wet month. It is many years since there was such an excessive amount of rain fell during one month. The total amount reached 6.11 inches, and fell on 20 days. Frost on grass on 17 nights, and in the screen on 7 nights. Snow fell on the 19th, 20th and 21st, to a depth of from 2 to 5 inches. The frost held the snow for a few days. Usually when snow falls here it quickly disappears.



FACTORY AND WORKSHOPS' ACT, 1901.



The Workshops on the Register number 58, and include:—

Bakers and Confectioners	18
Blacksmiths	1
Boot Repairing	10
Cabinet Making and Upholstering	2
Cycle Repairing	2
Dressmaking	7
French Polishing	1
Golf Club Making	1
Harness Making	1
Joiners	3
Laundries	2
Millinery	4
Tailoring	4
Tin-plate Working	2



The Factories number 27, and include the following:—

Aerated Water and Bottling Depots	1
Boot Repairing	1
Blacksmith	2
Concrete Flag Making	1
Corn Milling	1
Electricity Works	2
Gas Works	1
Joiners	10
Laundries	2
Letterpress Printing	2
Refuse Destructor Works	1
Stone Dressing	2
Wheelwright	1

TABLE I.—Vital Statistics of Whole District during 1909 and Previous Years.

URBAN DISTRICT OF ST. ANNES-ON-THE-SEA.

Year.	Population estimated to Middle of each Year.	Births.		Total Deaths Registered in the District.			Total Deaths in Public Institutions in the District.	Deaths of Non-residents registered in Public Institutions in the District.	Deaths of residents registered in Public Institutions beyond the District.	Nett Deaths at all Ages belonging to the District.			
		Number	Rate.*	Under 1 Yr. of age	Rate per 1,000 Births registered	At all Ages.				Number	Rate.*	Number	Rate.*
1	2	3	4										
1899	6143	122	20.0	8	57	76	0	0	0	64	10.5		
1900	6919	137	19.8	14	102	69	0	0	0	61	8.8		
1901	7500	132	17.6	24	182	103	0	0	1	89	12.0		
1902	7914	118	14.7	7	59	82	0	0	3	74	9.3		
1903	8207	151	18.4	11	73	86	1	1	0	72	8.8		
1904	8556	134	15.7	17	127	89	2	1	7	75	9.9		
1905	9110	139	16.0	12	86	100	1	1	4	84	9.2		
1906	9474	148	15.6	9	61	103	0	0	0	84	8.8		
1907	10204	144	14.1	14	99	102	0	0	5	90	8.8		
1908	10564	153	14.4	17	111	103	0	0	9	93	8.8		
Averages for years 1899-1908	8460	137	16.6	13.3	95.7	91.3	.4	.3	2.9	78.6	9.4		
1909	11023	151	13.7	8	53	103	0	0	8	98	8.8		

* Rates in Columns 4, 8, and 13 calculated per 1,000 of estimated population.

TABLE 1.—NOTES.

The deaths to be included in Column 7 of this table are the whole of those registered during the year as having actually occurred within the district or division. The deaths to be included in Column 12 are the number in Column 7, corrected by the subtraction of the number in Column 10 and the addition of the number in Column 11.

By the term "Non-residents" is meant persons brought into the district on account of sickness or infirmity, and dying in public institutions there; and by the term "Residents" is meant persons who have been taken out of the district on account of sickness or infirmity, and have died in public institutions or elsewhere.

The "Public Institutions" to be taken into account for the purposes of these tables are those into which persons are habitually received on account of sickness or infirmity, such as hospitals, workhouses and lunatic asylums. A list of the Institutions in respect of the deaths in which corrections have been made should be given on the back of this table.

Area of District in acres (exclusive of area covered by water), 3212.

Total population at all ages—6840

Number of inhabited houses—1262

Average number of persons per house—5.42

} At Census
of 1901.

I.	II.	III.
Institutions within the District receiving sick and infirm persons from outside the District.	Institutions outside the District receiving sick infirm persons from the District.	Other Institutions, the deaths in which have been distributed among the several localities in the District.
Abraham Ormerod Convalescent Home	Infectious Hospital, Moss Side	
Pendlebury Hospital Convalescent Home	Fylde Union Workhouse, Kirkham	
Rochdale Home		
Thursby Home.	Small Pox Hospital, Elswick	

Is the Union Workhouse within the District?—No.

TABLE II.—Vital Statistics of separate Localities in 1909 and previous years. St. Annes-on-the-Sea Urban District

NAMES OF LOCALITIES	1.—WHOLE DISTRICT.				2.—NORTH WARD.				3.—SOUTH WARD.				4.—EAST WARD.				5.—WEST WARD.			
	Population estimated to middle of each year.	Births registered.	Deaths at all ages.	Deaths under 1 year.	a.	b.	c.	d.	Population estimated to middle of each year.	Births registered.	Deaths at all ages.	Deaths under 1 year.	Population estimated to middle of each year.	Births registered.	Deaths at all ages.	Deaths under 1 year.	Population estimated to middle of each year.	Births registered.	Deaths at all ages.	Deaths under 1 year.
1899	6143	122	76	8																
1900	6919	137	69	14																
1901	7509	132	103	24	1255	27	19	5	2768	20	25	1	2550	78	15	17	936	7	8	1
1902	7914	118	82	7	1370	10	10	0	3056	29	29	0	2530	32	32	6	958	11	11	1
1903	8207	151	86	11	1415	11	11	0	3079	24	24	2	2715	35	35	5	1008	16	16	3
1904	8556	134	89	17	1480	14	14	2	3226	34	34	6	2785	32	32	9	1065	9	9	0
1905	9110	139	100	12	1600	24	24	4	3373	27	27	1	2985	41	41	7	1132	8	8	0
1906	9474	148	103	9	1670	13	13	1	3593	38	38	0	3045	37	37	7	1166	15	15	0
1907	10204	144	107	14	1725	18	18	3	4039	37	37	0	3180	41	41	9	1260	11	11	2
1908	10564	153	112	17	1770	19	19	1	4215	39	39	5	3290	36	36	10	1289	18	18	1
Averages of Years 1895 to 1908.	8460	137	92.7	13.3																
1909	11023	151	111	8	1870	26	23	0	4395	34	34	2	3495	84	43	5	1353	7	11	1

NOTES—(a) The separate localities adopted for this Table should be areas of which the populations are obtainable from the census returns, such as wards, parishes or groups of parishes, or registration sub-districts. Block 1 may, if desired, be used for the whole district; and blocks 2, 3, &c., for the several localities. In small districts without recognised divisions of known population this Table need not be filled up.

(b) Deaths of residents occurring in public institutions beyond the district are to be included in sub-columns *c* of this Table, and those of non-residents registered in public institutions in the district excluded. (See note on Table I. as to meaning of terms "resident" and "non-resident.")

(c) Deaths of residents occurring in public institutions, whether within or without the district, are to be allotted to the respective localities according to the addresses of the deceased.

(d) Care should be taken that the gross totals of the several columns in this Table respectively equal the corresponding totals for the whole districts in Tables I. and IV.; thus, the totals of sub-columns *a*, *b*, and *c* should agree with the figures for the year in the columns 2, 3, and 12 respectively of Table I.; the gross total of the sub-columns *c* should agree with the total of column 2 of Table IV., and the gross total of sub-columns *d* with the total of column 3 in table IV.

TABLE III.—Cases of Infectious Disease notified during the Year 1909.

URBAN DISTRICT OF ST. ANNES-ON-THE-SEA

Notifiable Disease.	Cases notified in whole District.						Total Cases notified in each Locality				Number of Cases removed to Hospital from each Locality.			
	At all ages	At Ages—Years.					North Ward	South Ward	East Ward	West Ward	North Ward	South Ward	East Ward	West Ward
		Under 15	15 to 25	25 to 65	65 and up-ward's.									
Small Pox.....														
Cholera.....														
Diphtheria, including Membranous croup	17	4	10	1	1	1	2	11	3	1	2	6	3	
Erysipelas.....	2			1	1	1	1	1						
Scarlet fever.....	31	5	22	3	1	2	13	10	6	1	10	8	4	
Typhus fever.....		1						8	1			6		
Enteric fever.....	9			2	6									
Relapsing fever.....														
Continued fever.....														
Puerperal fever.....														
Plague.....	71	5	27	9	3	15	16	39	1					
Measles.....														
Totals.....	130	7	37	59	14	12	31	69	11	2	12	20	7	

ISOLATION HOSPITALS—ELSWICK for Small Pox; MOSS SIDE, Nr. LYTHAM, for Scarlet Fever, Typhoid and Diphtheria

TABLE V.—Infantile Mortality during the Year 1909.

Deaths from Stated Causes in Weeks and Months under One Year of Age.

URBAN DISTRICT OF ST. ANNES-ON-THE-SEA.

CAUSE OF DEATH.		Under 1 Week.	1-2 Weeks.	2-3 Weeks.	3-4 Weeks.	Ttl. under 1 month.	1-2 Months.	2-3 Months.	3-4 Months.	4-5 Months.	5-6 Months.	6-7 Months.	7-8 Months.	8-9 Months.	9-10 Months.	10-11 Months.	11-12 Months.	Total Deaths under 1 Year.
All Causes.	Certified	1	1	1		3	1	1				1	1		1			8
	Uncertified																	
Common Infectious Diseases.	Small-pox																	
	Chicken-pox																	
	Measles																	
	Scarlet Fever													1				1
	Diphtheria: Croup Whooping Cough																	
Diarrhoeal Diseases.	Diarrhoea, all forms																	
	Enteritis (<i>not Tuberculous</i>) Gastritis, Gastro-intestinal Catarrh																	
Wasting Diseases.	Premature Birth	1	1			2												2
	Congenital Defects																	
	Injury at Birth																	
	Want of Breast-milk Atrophy, Debility, Marasmus																	
Tuberculous Diseases.	Tuberculous Meningitis																	
	Tuberculous Peritonitis: Tabes Mesenterica																	
	Other Tuberculous Diseases																	
	Erysipelas																	
	Syphilis																	
	Rickets																	
	Meningitis (<i>not Tuberculous</i>)																	
	Convulsions			1		1	1	1										3
	Bronchitis																	
	Laryngitis																	
	Pneumonia																	
	Suffocation, overlaying																	
	Other Causes											1			1			2
		1	1	1		3	1	1				1	1		1			8

District of St. Annes-on-the Sea.

POPULATION.

Births in the year { legitimate.....
 { illegitimate.....

Estimated to middle of 1909.
11,023.

Deaths from all Causes at all Ages, 111.

Annual Report of the Medical Officer of Health for the year 1909, for the Urban District of St. Annes-on-the-Sea, on the administration of the Factory and Workshop Act, 1901, in connection with Factories, Workshops, Laundries, Workplaces and Homework.

1.—INSPECTION.

INCLUDING INSPECTIONS MADE BY SANITARY INSPECTORS OR INSPECTORS OF NUISANCES.

Premises.	Number of		
	In-spections.	Written Notices.	Prosecutions.
Factories (including Factory Laundries)....	17	—	—
Workshops (including Workshop Laundries)	104	8	—
Workplaces.....	13	—	—
Homeworkers' Premises	—	—	—
Total.....	134	8	—

2.—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	1	1		
Want of ventilation	1			
Overcrowding				
Want of drainage of floors ..				
Other Nuisances	3	3		
Sanitary accommodation { insufficient				
{ unsuitable or defective ..				
{ not separate for sexes				
<i>Offences under Factory and Workshop Act:—</i>				
Illegal occupation of underground bakehouse (s. 101)			None.	None.
Breach of special sanitary requirements for bakehouses (ss. 97 to 100)	3	3		
Failure as regards lists of outworkers (s. 107).				
Giving out work to be done in premises which are { unwholesome (s. 108)				
{ infected (s. 110)				
Allowing wearing apparel to be made in premises infected by scarlet fever or small-pox (s. 109)				
Other offences				
Total	8	7	—	—

3.—OTHER MATTERS.

CLASS.	Number.										
<p>Matters notified to H.M. Inspector of Factories :—</p> <p>Failure to affix Abstract of the Factory and Workshop Act (s. 133)</p> <p>Action taken in matters referred by H.M. Inspectors as remediable under the Public Health Acts, but not under the Factory Acts (s. 5) (Notified by H.M. Inspectors Reports (of action taken) sent to H.M. Inspectors..)</p> <p>Other</p>	NONE.										
<p>Underground Bakehouses (s. 101):—</p> <p>Certificates granted during the year</p> <p>In use at the end of the year</p>	None in District.										
<p>Homework :—</p> <p><i>Lists of Outworkers (s. 107):—</i></p> <p>Lists received</p> <p>Addresses of outworkers. } forwarded to other Authorities } received from other Authorities</p> <p><i>Homework in unwholesome or infected premises :—</i></p> <p>Notices prohibiting homework in unwholesome premises (s. 108)</p> <p>Cases of infectious disease notified in homeworkers' premises</p> <p>Orders prohibiting homework in infected premises (s. 110)</p>	<p>Number of</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Lists.</th> <th style="width: 50%;">Outworkers.</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">None.</td> <td style="text-align: center;">None.</td> </tr> <tr> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> </tr> <tr> <th style="width: 50%;">Wearing Apparel.</th> <th style="width: 50%;">Other.</th> </tr> <tr> <td style="height: 40px;"></td> <td style="height: 40px;"></td> </tr> </tbody> </table>	Lists.	Outworkers.	None.	None.	—	—	Wearing Apparel.	Other.		
Lists.	Outworkers.										
None.	None.										
—	—										
Wearing Apparel.	Other.										
<p>Workshops on the Register (s. 131) at the end of the year</p> <p style="margin-left: 20px;">Workshop-Bakehouses 18</p> <p style="margin-left: 20px;">Total number of workshops on Register ..</p>	58										

Important classes of workshops, such as workshop bakehouses, may be enumerated here.

Date, Feb. 21st, 1910.

(Signature), F. BOOTH,
Medical Officer of Health.