[Report of the Medical Officer of Health for Acton].

Contributors

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ACT 30 1927

BOROUGH OF ACTON

ANNUAL REPORT

OF THE

Medical Officer of Health

FOR THE YEAR 1927.

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MEDICAL OFFICER OF HEALTH FOR THE YEAR 1927.

MUNICIPAL OFFICES,

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Acton, W.3.

July, 1928.

To the Mayor, Aldermen and Councillors of the Borough of Acton. LADIES AND GENTLEMEN,

I beg to submit the Annual Report for the year 1927 on the health of the Borough, together with the work of the Public

Health Department.

The Report is submitted in accordance with Circular 834 of the Ministry of Health, which requires the Medical Officer of Health to make an Annual Report up to the end of December on the sanitary circumstances, the sanitary administration, and the vital statistics of the district, and shall furnish the Minister with as many copies of such report as may be required. The Circular also indicates the lines on which the Report is to be drawn and the minimum information which it shall contain.

On the surface the vital statistics do not appear so satisfactory as those of 1926. The death-rate and the infantile mortality are higher, but both are lower than those of England and Wales, and the death-rate is lower than that of London as well. The higher death-rate is probably due partly to an altered age-incidence of the population, and on a subsequent page figures are given to show that the average age at death has been very

considerably raised during the past twenty years.

The district fortunately was free of Small-Pox during the year, but the unvaccinated condition of a large portion of the

population is a matter of serious and anxious import.

In 1926, 10,146 cases of Small-Pox were notified in England and Wales and in 1927, 14,769 cases were notified. It is true that most of the cases have occurred in the North of England and that the disease has been of a very mild type, but

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recently the disease has made its appearance in and around London. The possibilities of the spread of the disease in a district like ours are considerable; large numbers of persons come in and go out of Acton to work every day, and it is impossible for anyone to know whether he has been in contact or not with a person actually suffering from the disease. The only prophylatic measure is vaccination. Sir George Newman stated recently, "The experience of a century in all parts of the world shows that the best practicable method yet available for stamping out Small-Pox is vaccination."

Although the notifications of Scarlet Fever and Diphtheria were higher than those of 1926, neither disease assumed formidable proportions. One death occurred from each of the diseases. The question of active immunization against these diseases cannot therefore be said to be an urgent matter. In some districts in and around London, Diphtheria has recently been prevalent in a very virulent form, and the Schick method of immunization has been in use in Holborn, Deptford, Westminster

and Battersea.

The number of deaths from Tuberculosis is lower, but the number of deaths from Cancer was higher.

The following table is a summary of the vital and other statistics for the year 1927.

Area of Borough			9 905	
Population (Census 1921)			2,305 acres.	
Population (Estimated 1921)	****	****	61,299	
Population (Estimated 1927)			63,750	
Number of inhabited houses (Censu	us 192	1)	11,820	
Number of families or separat	e occ	cupiers	,	
(Census 1921)			and the state of t	
Rateable Value	****		14,941	
****	****		572,863	
Net produce of a penny rate		****	£2,386 18s.	7d.
Total number of Births registered			1,026	
Legitimate			987	
Illegitimate			39	
Birth-rate per 1,000 inhabitants			16.09	
Number of Deaths			704	
Death rate per 1,000 inhabitants				
Number of Women dying in or in o	200000	****	11.04	
of childbirth—	conseq	uence		
Sepsis			3	
Other causes			1	
Maternal Mortality per 1,000 births			3.9	
Deaths of Infants under 1 year of	age :-		0.0	
Legitimate 57; Illegitimate 5	180.	Total	69	
Infant Mortality per 1 000 birth		rotar	62	
Infant Mortality per 1,000 births	****	****	60	

Deaths from :-

Measles (all ages)	 	. 0
Whooping Cough (all ages)	 	2
Diarrhoea (under 2 years)	 	7

POPULATION.

The Registrar General estimates the population at the end of June 1927 to be 63,750, an increase of 710 on the estimated population of 1926. The estimate of 1926 was 70 less than that of 1925; so that the population of 1927 is estimated to be 640 more than that of 1925.

At the Census of 1921 the population of the district was 61,299. The Census of 1921 was not taken as usual in April, but was postponed to June 19th. Owing to the abnormally fine weather of that year, some holiday movement was already in progress in June, and the Registrar General made certain adjustments in the population of certain districts. The adjusted figure for Acton was 62,000. The estimated increase in the population since the Census is therefore 1750.

The longer the interval which has elapsed since the Census was taken, the less reliable, of course, are the estimates of a population. As a rule the estimates of the Registrar General are more correct than the local estimates. This may seem surprising. The intimate knowledge of local facts should make the local estimates more correct than those of the Registrar General, but the general tendancy of all local estimates of population is towards an over-estimation of the number.

Between the autumn of 1921 and the autumn of 1927 there was an increase of 3,684 in the number of Parliamentary electors. On the former date there were 30,350, and on the latter, 34,034.

The number of new dwelling houses erected and occupied between June 30th 1926 and June 30th 1927 is not available, but in that period 476 new houses were brought into rating as well as 22 flats and 9 houses with shops.

POOR RELIEF.

I am indebted to Mr. Harmsworth, the clerk of the Guardians, for the figures relating to Poor Law Relief. The amount of out-door relief distributed in the Parish of Acton by the Guardians during the year ended December 31st, 1927 was as follows:—

Ordinary Relief to	Relief Unemployed	 £5,962 £444		
		£6407	0	3½d.

There is a decrease of £1,300 as compared with 1926, and over £2,000 as compared with 1925. The most marked drop was in the relief to unemployed, but 1926 was probably abnormal, on account of the general strike.

SOCIAL CONDITIONS OF THE DISTRICT.

In the Survey Report of 1925 an account of the general and social conditions was given, and no noteworthy change has taken place. As stated in last year's report, if any change has occurred, it has been a tendency towards industrialism. In the north west ward between North Acton and West Acton Stations on the Central London Railway, dwelling houses have been erected, and also in the north-east ward in East Acton. In the extreme north of the district factories have been erected.

Most of the dwelling houses which have recently been erected consist of two reception rooms and three bedrooms. Some houses are smaller, and consist of a kitchen, living-room and three bedrooms. The size of the rooms vary, but the usual area of the bedrooms ranges from 100 to 180 square feet. In most instances, the houses are for sale and not for letting purposes.

HOSPITAL PROVISION

General.—Acton Hospital, Gunnersbury Lane—50 beds.

Fever.-Acton Council Fever Hospital-80 beds.

Small-Pox.—Acton is one of the constituent bodies which form the Middlesex Joint Small-Pox Board.

Tuberculosis.—The Tuberculosis scheme is administered by the Middlesex County Council. Sanatoria at Clare Hall and Harefield.

Poor Law.—The Parish is part of the Brentford Poor Law Union. The Union Infirmary, named the West Middlesex Hospital is situated in Isleworth.

Child Welfare Consultation Centres.—
(a)—Church Road. (b)—Palmerston Road.

Every Monday and Wednesday afternoon at 2 p.m.

Ante-Natal Consultation Centre.—School Clinic 2nd and 4th Wednesday.

Day Nursery.—169 Bollo Bridge Road.

School Clinic.—Adjoining Municipal Offices.

The above are provided and maintained by the Borough Council.

Tuberculosis Dispensary.—School Clinic on Tuesday at 5 p.m. and Thursday at 10.30 a.m.

Treatment Centres for Venereal Diseases.—Various Hospitals in London.

The two latter are provided by the Middlesex County Council.

AMBULANCE FACILITIES.

- (a)—For Infectious Cases.—A motor ambulance is housed at the Fever Hospital for the conveyance of cases of infectious disease to the Hospital.
- (b)—For Accident and non-infectious Cases.—The Council owns a separate ambulance for accident cases and for the removal of cases of ordinary illness. The ambulance is housed in a garage at the Fire Station and is available at all hours. During the year the ambulance was called out to 279 street accidents.

Although the ambulance was provided primarily for street accidents, there is a considerable demand for its use in the removal of cases of illness to or from hospitals, nursing homes, etc. A charge is made for the hire of the ambulance in private cases, and last year fees amounting to £92 5s. were paid for the use of the ambulance on 275 occasions.

SANITARY CIRCUMSTANCES OF THE AREA.

Water.—All the inhabited houses are supplied from the mains of the Metropolitan Water Board. There are a few deep wells in the district, but the water from these are used almost entirely for industrial and similar purposes.

Drainage and Sewerage.—By arrangement with the County Council the sewage ultimately discharges into the London sewers and is treated at the London outfalls. Storm water is

filtered and emptied into the Thames at Chiswick.

Closet Accommodation.—There are no privy or earth closets in the district, and all the water closets are connected with

the Council's drainage system.

Scavenging.—The collection of House Refuse is carried out direct by the Council, and the whole of the refuse is burnt in the Council's Refuse Destructor. Last year, 16,663 tons of refuse were burnt.

PROFESSIONAL NURSING IN THE HOME.

General.—There are two district nurses employed by the Acton Hospital, one of these is primarily engaged in district

nursing, and the other is engaged to nurse patients who have been discharged from the hospital.

Midwives.—There are 14 midwives practising in the district. Unfortunately, there are a few other women, who are not registered, but who do attend confinements. It is illegal for these women to attend confinements habitually and for gain, except under the supervision of a doctor, but it is very difficult to stop the practice.

LEGISLATION IN FORCE.

The following local acts, special local orders, general adoptive acts and bye-laws relating to Public Health are in force in the district:—

Infectious Diseases (Notification) Public Health Amendment Act, Infectious Diseases Preventoin A Notification of Births Act, 1907 Public Health Act, 1907 (Clause Public Health Act, 1925 (Parts 2 The Acton Improvement Act, 190	, 1890 ct, 1890 50)	 	1889 1890 1893 1907 1921 1926
New Streets and Buildings	****	 	1925
Removal of House Refuse		 	1899
Common Lodging Houses		 ****	1898
Slaughter Houses		 	1924
Nuisances, etc		 	1924
Offensive Trades		 	1903
Tents, Vans and Sheds		 	1906
Removal of Offensive or Noxious	Matters	 	1908
Houses let in Lodgings		 	1925
Cleansing of Cisterns		 	1912
Employment of Children		 	1920

HOUSING.

This question has been dealt with fully in the reports of previous years, and in the main, the conditions cannot be said to

have changed.

Since the war, many new industries have been started in the district, and there must necessarily be competition for a certain class of house. The people employed in the new industries which have been established naturally wish to live as near as possible to the place of their employment. They are willing to undergo some inconvenience if by that means tedious journeys night and morning can be avoided.

For economic reasons, the tenants of some of the houses are willing to sublet, even when the accommodation is not satisfactory. To this extent the difficulties of the housing question is peculiar to Acton. Otherwise the problem of housing is very similar in most districts in and around London. The supply is insufficient to allow of any free interchange of houses. Usually the requests for more housing accommodation come from the employees. But the employers are also handicapped. It is not an infrequent event for a firm to lose a good worker because the latter cannot find a house near his work and he finds travelling to his work too arduous and onorous.

SMOKE PREVENTION.

On July 1st, 1927, the new Smoke Prevention Act came into force. As far as densely populated industrial areas are concerned, atmospheric pollution constitutes an outstanding problem of sanitation which health authorities can no longer ignore. At first it seems curious that the necessity of a clean atmosphere has taken such a long time to be appreciated. The benefits of clean food and clean water were early appreciated and we have made considerable progress towards the attainment of these two goals.

The provision of uncontaminated water supplies has wiped out of existence the cholera scourges which were frequent in the earlier part of the nineteenth century. It seems almost incredible now that as late as the middle of last century in a town with a much smaller population than Acton fifteen hundred deaths

occurred from cholera in the autumn of one year.

The provision of pure food supplies has undoubtedly caused the great diminution of mortality from diarrhoea and other diseases of the intestines. Medical research had shown that certain diseases were directly due to contamination of the water and food supplies and the steps undertaken to protect them were successful in reducing the mortality from those diseases. But until quite recently, no diseases could be said to be directly due to a polluted atmosphere, and even now, it is not easy to provide direct and absolute /proof that the death-rate in any area is influenced by the smoke pall.

It is impossible, in the majority of cases, to point with any certainty to specific cases of disease or mortality as due to this cause. We know, of course, that during a spell of foggy weather the deaths from lung diseases and the deaths of old

people rapidly increase in number.

Dr. Osborne, the Medical Officer of Health for Silford, tabulated the deaths of certain towns and he found that the

bronchitis death-rate in 1921 to 1925 for Manchester and the group of towns near Manchester, such as Salford, Blackburn, Bolton, Preston, Stockport, Burnley, Wigan, Oldham, Bury and Rochdale, is remarkably and consistently high, being in every case over 50 per cent. greater than that of the country as a whole, and in some cases nearly three times as high as that of towns like Eastbourne and Bournemouth. The bronchitis death-rate in some of these towns was nearly twice as high as that of Greater London, although the conditions in London as far as atmospheric pollution is far from satisfactory.

It has been shown that when light passes through a disperse system such as a suspension of smoke particles in the air it undergoes a scattering which is inversely proportional to the wave length of the ray. Thus the violet and ultra violet rays, which are known to be the most valuable for human health are cut off to the greatest extent by smoke. The amount of ultra violet rays received in Kingsway, London, is only about half that received in Hampstead, and probably less than a quarter of that

in the country.

In Acton, we are particularly interested in the smoke problem on account of the large number of factories in the district, and the Council encouraged their Inspectors to become proficient in their duties respecting smoke prevention. Mr. Kinch and Mr. Jenkins obtained the certificate of the Sanitary Institute for Smoke Inspectors, and the Council recognised their work by increasing their salary. The Council felt that it was not sufficient for a Smoke Inspector simply to make observations of chimneys and take action against defaulters.

The Inspectors now have a knowledge of the principles which underlie combustion in the furnace, particularly the boiler furnace. In many instances, they have brought about reforms which have at once freed the chimneys from smoke nuisance and at the same time yield a handsome financial return to those who

have accepted their advice.

In some instances where black smoke has been observed it is found that the boiler plant is too small, and the furnace is overloaded with fuel. When the plant is working under normal conditions with ordinary draught, the boiler is not capable of generating sufficient steam for the requirements of the factory. Instead of replacing it with a larger boiler or providing an additional one, an attempt is made to obtain the steam by means of excessive fuel; the stoker piles on the fuel and instead of keeping a fire of a normal depth of 4 to 6 inches the fire is often as much as 15 inches deep. With such a depth of fire it is impossible to obtain proper combustion, as the supply of primary air is impeded by the thickness of the fire, and the space between

the top of the fire and the crown of the furnace is insufficient to allow of the secondary air there and in the combustion chamber. Under such conditions the emission of black smoke is inevitable.

With forced draught more coal can be burnt with a normal depth of fire, but in the majority of cases which come under our notice the boilers are unsuitable for adaptation to forced draught.

In most of the large factories, mechanical stoking is in vogue, but in the smaller factories, the inspectors have been able to give a demonstratoin of the right and wrong method of hand stoking. We have come across instances where it would have paid the employers to adopt means to convince a stoker that hand firing is an art worth acquiring. We have issued and distributed the following leaflet:

BOROUGH OF ACTON.

INSTRUCTIONS TO STOKERS.

HAND FIRING.

Fire small charges at frequent intervals.

Break coal into lumps 2" diameter. (2).

Method of firing :--

(a) Spread fuel lightly over whole fire, or

Spread along one side of furnace alternately each charge, or,

Feed on dead-plate and push on to fire when gases (c)

have distilled by coking.

Open furnace door grids if any, for one minute after stoking (4). to burn volatiles, if no grids, open doors.

Keep fire at even depth and without bare spots. (5).

Do not allow all your fire to burn away before cleaning off. (6).

Do not clean off all your furnaces at one time. (7).

Keep steam pressure steady and do not force boiler. (8).

I think it may be stated that the solution of industrial smoke pollution, as far as boiler furnaces are concerned, seems

to be in sight.

There still remains the domestic smoke problem. People prefer the open fire and will not readily change to other methods of heating, as far as the living room is concerned. As far as the inmates of the house are concerned, the open fire is much the healthiest method of domestic heating, as it ensures thorough ventilation of the room, with warm surfaces and cool air, unlike central heating, and closed stoves, which cook the air and leave the walls and surfaces comparatively cold.

On the other hand, ordinary house coal, when burned in

the ordinary open grate, gives off volumes of unconsumed distillation products in the form of tarry smoke. This domestic smoke contains a high proportion of unconsumed tar and fine impalpable fume, both of which are destructive to our buildings and detrimental to our lungs. The high temperature which is obtained in the factory furnace burns the volatile products, and factory smoke usually contains only inorganic ash. The lower the temperature the more injurious the substances which are given off in the coal smoke, so that the worst nuisance arises when domestic fires are banked up with slack.

If we are to retain our open fires, it is, in the first place, imperative that a smokeless substitute for raw coal be found, and it is disappointing that most of the smokeless fuels on the market are comparatively expensive. With regard to the various low temperature smokeless fuels, the supply is at present comparatively small, and the price does not compare favourably in

calorific value with coal.

TABULAR STATEMENT OF INSPECTIONS AND DETAIL OF WORK CARRIED OUT BY THE SANITARY INSPECTORS.

Number of Inspec	ctions	and Action	Taker	n.	
Total number of dwelling defects (Under Public Hea (1) Dealt with by service) Dealt with by services.	alth or ice of	Housing Ad Informal No	ets) etice	612	1088
under Section 3, Ho (3) Dealt with by	ousing	Acts		. 219	
under Public Health Premises (other than defect	Acts			. 238	
for nuisances and miscella (1) Dealt with by service (2) Dealt with by service	neous e of In	defects formal Noti	 ce	733	863
under Public Health Reinspections subsequent to	a Act,	&c		130	7936
Enquiry visits on notification	n of I	fectious Di	sease		323
Number of Premises	under	Periodical	Inspec	ction.	
Workshops and Workplaces			****		161
Bakehouses					29
Slaughterhouses					2
Public Health Urinals				****	37
Common Lodging Houses		*		****	1
Houses-let-in-lodgings					26

Butchers' Shops			42
Fish Shops			28
Premises where food is manufactured or prepare	ed		33
Milk Purveyors			60
Cowsheds			Nil
Piggeries			Nil
Rag and Bone Dealers			6
Mews			4
Schools			11
Show Grounds			1
			111
			441
Rent Restriction Acts.			
Number of Certificates granted		****	12
Number of Certificates refused			1
Detail of Work carried out.			
			100
Sanitary Dustbins provided	••••		492
Yards paved or yard paving repaired			133
Insanitary forecourts remedied			63
Defective drains repaired or reconstructed	renaired	or	03
Defective soil pipes and ventilating shafts	repaired		74
renewed			87
Defective fresh air inlets repaired or renewed	****		77
Defective gullies removed and replaced by new			38
Rain water downpipes disconnected from drain Dishing and curb to gullies repaired and new g			175
Defective W.C. pan and traps removed and rep	laced by	new	
Defective W.C. flushing apparatus repaired of	or new fi	xed	341
Defective W.C. seats repaired or new fixed			158
Defective flush pipe connections repaired			92
Insanitary sinks removed or new fixed			145
Sink waste pipes repaired or trapped			193
Insanitary wall surface over sinks remedied			145
Ventilated food cupboards provided		,	8
Deinleing water cisterns cleansed			238
Defective covers to drinking water cisterns rep	aired or	new	
fixed			57
Insanitary sites beneath floors concreted			7
Spaces beneath floors ventilated			
Dampness in walls from defective damp-	proof co	urse	
remedied	****	****	17.
Dampness from defective roof, rain water gut	terings,	etc.,	-
remedied		••••	722

Defective plastering repaired (number of rooms)		694
Rooms where dirty walls and ceilings have been	cleansd	031
and redecorated		3908
Defective floors repaired		163
Defective or dangerous stairs repaired		29
Defective doors and windows repaired		343
Defective kitchen ranges and fire grates repaired		
Defective washing coppers repaired		
Coal cuphoards provided and repaired		108
New W C apartments provided		
Accumulations of offensive matter removed		
	****	25
Drains unstopped and cleansed		216
Overcrowding nuisances abated		10
Drains tested, exposed for examination, etc		94
Smoke observations taken	****	174
Smoke nuisances abated on service of notice		11
Nuisances from pigs and other animals abated		7
Notifications of waste of water sent to Metropolitan	Water	
Board		286

BIRTHS.

Table 7 gives particulars of the births registered and notified in the district, and the births belonging to the district which have occurred and been registered outside the district.

Table 7 which gives particulars of the births notified and registered, illustrates the antiquated condition of our birth registration arrangements, and the absence of any provision in these laws or in their administration for the furtherance of child welfare schemes. These laws, of course, were passed before the birth of any effective public health legislation, and they have been allowed to continue and very little attempt made to bring them into line with a law of the line with line with the line with the line with the line with the line wit

them into line with modern public health requirements.

Under the Notification of Births Act, a birth has to be notified within 36 hours to the Medical Officer of Health. In addition, the birth has to be registered with the local registrar of births. The birth has to be notified, and registered in the district in which a birth has taken place, and not in the district to which the birth belongs. For instance, if an Acton mother goes for her confinement to a nursing home or a maternity hospital in London, the birth is notified to the Medical Officer of Health of the Metropolitan Borough in which the institution is situated, and registered with the local registrar of births of the same area.

In the vast majority of instances, the Medical Officer of Health forwards the particulars of the birth to us, and we are enabled to visit if necessary and advise the mother. Under the Notification of Births Act, there is a system of transfer which enables us to carry out the duties under our Maternity and Child Welfare scheme. But under the Registration of Births Act, the only intimation we receive is a slip at the end of each year from the Registrar General giving the total number of registered births belonging to the district. By deducting the number of births registered locally we ascertain the number of births which have occurred outside the dictrict. But no particulars whatsoever is given by the Registrar General, simply the total number. As over one-sixth of our total births occur outside the district, and these mothers are usually those who need and welcome instruction, it will be gathered to what extent our work would be handicapped if the defect were not remedied through the courtesy and help of Medical Officers of Health.

Th total number of births belonging to the district was 1026. This figure represents the total number of births registered during the calendar year and is corrected for inward and outward

transfers. The births registered in the dictrict was 857.

The total number of births corresponds to an annual birth

rate of 16.09 per 1000 inhabitants.

Because the addresses of all the outside births are not obtainable, it is impossible to allocate the births to the several wards. The difference in numbers between the notified births and the registered births is so small that approximate figures are given for the several wards. There is a difference of 27 between the total as given by the Registrar General, and the total number of which we have particulars. The 999 births were distributed as follows:—

North-East. North-West. South-East. South-West. 284 190 171 354

The birth rates per 1000 population in the different wards were as follows:—

North-East. North-West. South-East. South-West. 16 14.5 11.2 20.2

39 children were born out of wedlock, which number corresponds to illegitimate birth-rate of 3.8 per cent of the total births.

DEATHS.

The total number of deaths belonging to the district was 704.

445 deaths were registered in the district; of these 21 were

deaths of non-residents.

In addition 280 deaths of residents were registered outside the district.

The 704 deaths correspond to a death-rate of 11.04 per 1000 inhabitants.

The mortality was highest in the first quarter of the year and lowest in the third quarter. In the first quarter 252 deaths occurred corresponding to a death-rate of 15.8 per 1,000 per annum.

In the other three quarters the numbers were 139, 127, and 184 respectively, which numbers correspond to 8.7, 7.9 and 11.5 per 1,000 per annum respectively. But, although the mortality was highest in the first quarter of the year, the average age at death was also highest in that quarter. The explanation, of course, lies in the fact that the more severe weather experienced in the first quarter of the year was especially fatal to old people.

The death-rate is slightly higher than that of 1926 and We are apt sometimes to forget that in recent years the age distribution of the population has considerably changed, and the continuous downward trend of the death-rate has nearly, if not absolutely come to an end. When the birth-rate was high we had a large proportion of people living in the vigorous and healthy age-periods. At the commencement of the decline in birth-rate and for some years afterwards, we had conditions which were particularly favourable to a low death-rate. These conditions have now passed, and we are entering on a period when the age constitution of the population has altered and we have a higher proportion of old people and a lower proportion of young and healthy people. These remarks are made not with the intention of discouraging or depreciating the effects of sanitary work and preventive medicine in the twentieth century. As a matter of fact, many and great advances have been made, but certain allowances should always be made for the altered age distribution of the population. If we go back only twenty years, we are confronted with certain facts which are really amazing. In spite of the increased population, there were less deaths in the 3 years 1925, 1926 and 1927 than there were in 1905, 1906 and 1907. In the earlier three years there were 2052 deaths compared with 2027 in the last three years. The average death-rate in 1905-1907 was 13.25 and in 1925-1927, it was 10.67. In these two periods although the age distribution of the population has changed, the periods are fairly comparable as a whole, because the lower proportion of young children living in 1925-1927 is counterbalanced by the higher proportion of old people in the later period. But if the death-rate of 1905-1907 had persisted in 1925-1927, about 490 more deaths would have occurred in the later period than did actually occur.

If we compare the average age at death in 1927 with that of 1907, the contrast is still greater. In 1907, the average age

at death was only 31.88 years, whilst in 1927 the average age was 52.24 years. The expectation of life has increased over 20 years in that period. This improvement is not entirely due to the altered age-distribution of the population nor to the greatly lowered infantile mortality, because the improvement is seen in the later ages of life, although not in the same degree. Because of the success which has resulted from the work of infant life preservation, we are apt to forget sometimes the fact that the benefits accrue also in later years. A further examination of the death returns of 1907 and 1927 shows that even if we exclude the deaths under one year of age, the average age at death of the others went up 43.66 to 57.37 years. The reduction of mortality in children beween 1 and 5 years of age has been even greater than the reduction which has occurred in the infantile mortality. Even if we exclude the deaths of children under 5 years of age, we find that the average age at death has gone up from 52 years in 1907 to 59.34 in 1927. The average age at death of adults has also been raised. If we take the average age at death of persons over 15 years of age, it has gone up from 58.82 years to 61 years. The following table shows the averages at death of all persons who died and of those over 1 year, 5 years, and 15 years of age in the years 1905, 1907, and 1925 and 1927. Average age at death.

1927 1926 1925 1907 1906 1905 years.

Persons of all ages 52.24 50.87 51.83 31.88 31.85 33.07

Of persons over 1 year 57.37 56.06 58.93 43.66 44.55 45.22

,, ,, ,, 5 yrs. 59.34 59.25 61.31 52. 54. 50.92

,, ,, ,, 15 yrs. 61. 61.04 62.69 58.82 57.18 55.8

It will be seen from the above figures that the improvement which has taken place in the early years has also extended to the middle years of life. This improvement has taken place in respect of almost all diseases. The most notable exceptions are Heart Disease and Cancer. The deaths from these diseases have increased considerably in recent years, but the increased mortality from heart disease is probably not a real one, and the apparent increase is due to better methods of diagnosis and a more comprehensive view of heart disease. In former years, valvular disease was considered the most formidable condition in heart disease, and accounted for most of the deaths. In recent years, other conditions connected with the muscles of the heart figure largely in the causes of death from heart disease.

In connection with deaths from cancer, we should also bear in mind the altered age-distribution of the population. It is a lamentable fact that deaths from cancer have increased, and the increased mortality is not entirely accounted for by improved methods of diagnosis. But the number of deaths from cancer now is relatively higher in persons over 65 years of age than it formerly was. In the 4 years 1906—1909, the total number of deaths from Cancer was 190; of these 74 or 38 per cent were in persons over 65 years of age. In the 4 years 1924 to 1927 the number of deaths was 357—a very large increase; of this number 165 were in persons over 65 years of age, or 46 per cent of the total.

A reference to Table I. will show a slight alteration in its arrangement. In former years there was a column showing the number of inquests which has been held. This year there is another column showing the percentage of deaths certified by the coroner after a post-mortem examination, but where no inquest had been held. The Coroners Amendment Act, 1926, came into force on May 1st, 1927, and the Act makes many far-reaching amendments relating to Coroners.

Under the Act a Coroner is empowered under certain conditions to hold an inquest without a jury. This power was first enacted by the Juries Act 1918, and continued by the Coroners Emergency Provisions Continuance Act, 1922, and by the subsequent Expiry Laws Act, until December 31st, 1927. This

proceedure now becomes a permanent practice.

Another inovation is the power given to the Coroner to order a post-mortem examination to be made without the necessity of a subsequent inquest. Under the Coroners Act, 1887, a post-mortem examination could only be directed if an inquest was to be held. Under the new Act the Coroner can order a post-mortem examination, and if as a result of such post-mortem examination he is satisfied that an inquest is unnecessary, he simply sends a certificate to the Registrar of Births and Deaths stating the cause of death as disclosed by the report of the post-mortem examination, and the Registrar makes an entry in the register and issues a burial certificate. The new powers obviate the necessity of holding many inquests.

Last year 26 inquests were held, and 9 deaths certified by the Coroner, after a post-mortem examination without holding an inquest. 8 of these inquests concerned persons who were nonresidents. Fourteen Inquests were held on residents who had met their deaths outside the Borough, and two certified by a

Coroner without an inquest.

The total number of deaths of residents and in which an inquest was held was 33, and 11 deaths were certified by a

Coroner without an inquest.

Sir George Newman in his annual report to the Ministry of Health draws attention to the increasing risk of life due to motor vehicles. He states in that report that before remedies can be considered, a detailed analysis of the causes is needed. Apart from evidence submitted to the Select Committee in Motor Traffic 15 years ago no detailed analysis is available. We do not know how many of those who lost their lives were drivers or passengers, and how many pedestrians.

Our figures, of course, are too small to be of value for

the purposes above mentioned, but they may be interesting.

8 deaths belonging to the district were caused by mechanically propelled vehicles; 2 of them occurred in the district and six outside. The two which occurred in the district were both pedestrians—one was a woman of 63 years of age, and the other a man of 81 years. The former was knocked down by a motor van, and the latter by a passenger car.

Of the six residents who were killed outside, 3 were pedestrians, and 3 were either drivers or passengers. pedestrians were men of 96 years and 59 years respectively and a boy of 8 years. The two men were knocked down by passenger

cars and the boy was run over by a lorry.

The three drivers or passengers were on motor cycles. One, a man of 21 years was killed in a collision between his cycle and a taxi-cab, the second a man of 38 years was crushed between his cycle and a motor car, and third a woman of 20 years was

thrown off a motor cycle and run over by a charabanc.

There were also 6 deaths of non-residents in the district, of these 5 were pedestrians; 2 of these were run over by motor lorries, one, a boy of 21 years was run over by a passenger car, one, a man of 70 years was knocked down by a tram car, and one was knocked down by a railway train. The driver who was killed was a man thrown off his motor cycle.

The age distribution, and ward distribution are given in

Table III.

The death-rate in each ward was as follows:-North-East. North-West. South-East. South-West. 12.3410.39 10.11 10.38

Deaths in Public Institutions. 292 deaths or 41 per cent of the total occurred in public institutions. In addition 11 deaths occurred in nursing homes.

INFANTILE MORTALITY.

62 deaths occurred in children under one year of age. This number corresponds to an infantile mortality of 60 per 1,000 births.

The infantile mortality is higher than that of 1926, but lower than the infantile mortality of the whole of England and

Wales, which was 69 per 1,000 births.

The infantile mortality in London was 59 per 1,000 births.

The infantile mortality in the different wards was as follows:—

North-East. North-West. South-East. South-West. 48 70 70 61

Premature birth still figures as the principal cause of death, and 14 deaths are due to this cause. In addition there were 4 deaths from Congenital Debility, 4 from Congenital Malformation, 3 from Marasmus and 6 from injury at birth. Half the deaths were due to ante-natal or natal causes. Over a third of the infantile deaths occurred in the first week after birth. 52 of the babies were legitimate ones, and 5 of the deaths occurred in babies who were born out of wedlock.

MATERNITY AND CHILD WELFARE.

It was stated in last year's report that the Council was endeavouring to rent premises in East Acton in order to start there a child welfare centre. After many failures premises have now been obtained, and although not so convenient as we might wish to the new houses which have recently been erected, it is hoped that it will fulfil a long-felt want.

We have been apt to concentrate our energies in South Acton, and the figures show that we have been very successful in that respect. For the past few years, the infantile mortality in the south-west ward has been lower than that of some of the other wards. This, of course, is satisfactory, but it also shows, not that we should relax our efforts in the south-west ward, but that effort is necessary in other directions.

For some years, we have endeavoured to co-ordinate the work of our infant centres with that of the school medical service. Children with squint are referred to the School Ophthalmic Surgeon, tonsils and adenoids are removed at the Acton Hospital, and there is an agreement with the National Orthopaedic Hospital for the treatment of any Orthopaedic cases.

Although no special sessions are devoted by the School Dental Surgeons to expectant and nursing mothers and to children under 5 years of age, the following work was carried out in the School Clinic last year under the Maternity and Child Welfare Scheme.

Mothers Children	ļ	Inspected. 33 117	Referred for Treatment. 33 117	Treated. 31 94
		150	150	125
		Marine Company		

TABLE II.

Fillings :-				
Permanent	Teeth		29	
Temporary	Teeth		144	
		Total	173	
Extractions :-				
Permanent	Teeth		170	
Temporary	Teeth		328	
		Total	498	
Administration	of Nitrous	Oxide		158
Scalings				4
Dentures				5

DAY NURSERY.

The Day Nursery is situated in Bollo Bridge Road. The Nursery is open daily except on Saturday and School holidays.

The charges for admission are 9d. a day for one child

and 8d. a day each for two or more children of one family.

Last year the nursery was open on 209 days, and 3,951 whole-day and 63 half-day attendances were made.

INFECTIOUS DISEASES.

Scarlet Fever.

137 cases of Scarlet Fever were notified, and there was one death from the disease, a child of 5 months who was nursed at home.

The age-incidence and ward-distribution of the disease are given on Table 5.

Diphtheria.

69 cases of Diphtheria were notified and there was one death from the disease.

Although the number of cases was higher there was only one death, compared with 2 in 1926. During the autumn, there was an increased incidence of the disease in East Acton. At the start, the disease was limited to children attending the East Acton School, but later cases occurred amongst pupils of Acton Wells School. The Acton Wells pupils, among whom Diphtheria

at first made its appearance, were resident in East Acton, but subsequently there were cases in West Acton. The spread of the disease may probably be accounted for by the fact that Acton Wells draws its pupils from East Acton and West Acton.

On October 7th, a case of Diphtheria was notified; the child lived in East Acton and attended the East Acton School. On October 5th, in the course of the routine medical inspection at the school, one of the children had a nasal discharge and there was a history of recent sore throat. This child lived in Perryn Road. A swab was taken from the throat and it was found that the germs of diphtheria were present. On October 10th, a child under school age living at East Acton was also notified.

The district had been comparatively free of Diphtheria throughout the summer—2 cases being notified in each of the months of June, July and August and one case in September. Another feature which caused uneasiness was the fact that recently Diphtheria in a virulent form has been prevalent in

certain areas of London.

In these circumstances, it was decided to extend the scope of inquiry beyond the contacts of the house, and as usual the next inquiry was directed towards the pupils attending the East Acton School.

On October 10th, an examination of the children was made at the school, and many children gave a history of recent sore throat. In the circumstances, it was decided to swab most of the children in two of the classes. 67 children were swabbed, and 4 of these were found to harbour the germs of Diphtheria. These 4 children had recently suffered from sore throats, so that is is probable they had suffered, or were suffering from a mild

attack of Diphtheria.

We have been particularly fortunate in recent years, as far as Diphtheria is concerned. In 1927 there was only one death from the disease, and in 1926 there were two deaths. It is therefore possible that the Schick testing and immunization are not questions of urgent importance here. But there are ominous signs that Diphtheria of a virulent type is on the increase in London, and during the first quarter of 1928 we had 3 deaths from Diphtheria, or as many as in the two years 1926 and 1927. At present we have no exact knowledge of the determining factors which govern the prevalence and still less the type of these epidemic diseases. It is well therefore that we should be prepared and know what measures are adopted in districts where Diphtheria of a virulent type is prevalent. Immunization by means of Toxin-Antitoxin or Toxoid-Antitoxin has ceased to be experimental, and where it has been carried out, the authorities

are in every instance convinced of their value in the control of

Diphtheria.

In all pioneer work, however, it is well to bear in mind that accidents may occur and have occurred, and it cannot be denied that in a very few instances certain serious results have followed the use of the immunization material. Fatal results have occurred after the use of Toxin-Antitoxin. Two accidents were reported in 1924, one in America and one in Austria. Again in 1927, two further similar occurrences occurred in Russia and China. All these were the subject of inquiry, and scientific investigation, and in each case the cause has been traced to its source.

The latest instance in which fatal results followed is that of the Bundaberg accident which occurred in January, 1928, and resulted in 12 deaths. Naturally, the occurrence was seized upon by certain organizations to bring all experimental medicine into bad repute. A thorough investigation was made of all the circumstances by a Royal Commission and a report made to the Commonwealth House of Representation in Canberra. Certain steps have been taken to eliminate possible risk in the future, and a substitute has been found for the original toxin-antitoxin. The public are now safeguarded by the Therapeutic Substances Act which came into operation last year and provides for control over such substances as Diphtheria prophylactic. Every Medical Officer of Health is anxious to rule out the possibility of accidents which can harm and hinder progress in the application of one of the most beneficient preventive measures that have appeared in recent years.

Tuberculosis.

128 cass of Pulmonary Tuberculosis and 26 cases of other forms of Tuberculosis were notified during the year; of these 88 were new cases of Pulmonary Tuberculosis, and 22 new cases of other forms of Tuberculosis.

167 cases were removed from the Register during the year, either through death, residence out of the district or reported

"cured" by the Tuberculosis Officer.

At the end of the year the number of cases on the Register was:-

Pulmonary. Non-Pulmonary. Total
Male Female Male Female
91 92 21 16 220

The following figures have been kindly supplied by Dr. Atkinson, the Tuberculosis Medical Officer:--

New cases referred to him-	Pulmonary Non-Pulmonary	46 12
Number sent to Sanatoria		29
Number sent to Hospitals—	Pulmonary	14
	Non-Pulmonary	13

Isolation Hospital.

During the year 247 cases were admitted into the Hospital compared with 200 in 1926. On January 1st, 1927, there were 25 cases under treatment and on January 1st, 1928, there were 36. 236 were discharged and there were 3 deaths.

The following is a list of cases admitted: -

Scarlet Fe Diphtheria		Acton 100 64	Wembley 57 9	Kingsbury 7 2	Total 164 75
Measles	 	1	_	-	1
Others	 	6	1	_	7
		171	67	9	247
				_	

Scarlet Fever.

164 cases of Scarlet Fever were admitted with no death.

Diphtheria.

75 cases of Diphtheria were admitted with 2 deaths.

Purpura.

1 death.

BACTERIOLOGICAL EXAMINATIONS, 1927.

(a) For Diphther	ia.		Positive.	Negative.
Total examinations	-1035		 130	 905
Sent by Medical P	ractitio	ners	 47	 350
Sent from Isolation	Hosp	ital	 43	 194
Convalescents			 2	 29
Contacts			 12	 212

Of these Positive Contacts:-

6 were Positive on the 1st occasion.

4 ,, ,, ,, 2nd ,, 2 ,, ,, 3rd ,,

School Sore Throats Positive. Negative. 21 120

9 of these positive sore throats had sufficient clinical symptoms to warrant removal to Hospital.

(b) For Ringworm.	Positive.	Negative.
Total Examinations—5	5	Nil
(c) For Tubercle.	Positive.	Negative.
Total Examinations—181	39	142
(d) Bacteriological Examinations of	Milk	2
"	Ice Cream	4

MEAT INSPECTION.

It was stated in last year's report that towards the end of 1926, the Slaughter-house in Hanbury Road was acquired by a firm that used to slaughter in Aldgate. All the meat in this Slaughter-house is inspected by persons appointed by the Jewish Ecclesiastical Board, any meat rejected as Kosher is laid aside and inspected by the Council's inspectors.

In the other slaughter-house pigs only are slaughtered and every carcase is inspected by the Council's inspectors and the following tables set out the number of carcases inspected, together

with the meat condemned as unsound.

On one of the tables will be found the Counties from which the pigs were consigned. There is a slight improvement all round, but a most marked improvement in London and the Counties immediately adjoining. From London and the Counties of Middlesex, Essex, Buckingham, Sussex and Surrey 3,212 of the pigs were consigned and only 45 of the carcases were diseased. In the vast majority of cases, the disease is tubercle. London and these Counties the percentage of animals diseased was only 1.4 compared with a percentage of over 4.5 in the pigs from the rest of the Country. The figures are too small to draw any general conclusions, but the improvement may have some connection with the Orders made by the Board of Agriculture for the prevention of the spread of Foot and Mouth Disease. Some of the orders decree that all waste food-stuffs must be boiled before they are brought into contact with, or fed to animals. Around London, most of the food consists of waste food-stuffs collected from hotels and restaurants, but in rural districts and especially in dairying districts a large portion of food is derived from the surplus of skim milk. The practice still obtains of feeding pigs with raw skim milk and the high proportion of affected phoryugeal glands is probably due to the practice.

TABLE I.

UNSOUND FOOD SURRENDERED DURING 1927.

(a) Diseased Meat.

Tuberculosis.

Th				
- 10	O	D	7.7	
-	w	PC.	rv.	_

4 Pigs' Carcases
1 side of Pork
4 Forequarters
2 Hindquarters
1 Shoulder

4 bellies
1,026 lbs. pieces of Pork
300 Pigs' heads
142 Pigs' plucks
1,872 lbs. Chitterlings

BEEF.

7 Ox Carcases and Offal

3 Forequarters

1 breast

3 Hindquarters

3 loins

10 Ox heads and Tongues

4 Ox Plucks

52 Calves Plucks27 Calves Livers

1 Tripe

2 Ox Kidneys

VEAL.

1 side with offal

7 Forequarters

I Rib

3 Rumps and Loins

2 Thin Flanks

2 Middles

35 lbs. pieces of Veal

Parasites.

2 sets of Ox Lungs 347 Sheep's Plucks 1,169 Sheep's Lungs

203 Sheep's Livers 1 set of Goat's Lungs

Pleurisy.

8 Breasts of Veal 4 Calves' Hearts

18 sets of Calves' Lungs

29 Breasts of Mutton 3 Shoulders of Mutton

Pyaemia.

1 Calf's Carcase

1 Sheep's Carcase & Offal

Dropsy.

19 Sheep's Carcases 7 Calves' Carcases & Offal

2 flanks of Mutton

Actinomycosis.

4 Ox heads and tongues

4 Calves' heads

Septic Pneumonia.

1 Forequarter of Veal

2 Forequarters of Mutton

Anthritis.

1 Leg of Pork

Bruising.

1 calf's Carcase and Offal 1 leg of Pork

1 Sheep's Carcase

Septicaemia.

1 Calves' carcase.

Congestion.

3 Calves' carcases & offals 2 Calves' Kidneys

Immature.

1 Calf's carcase and offal

Abscess.

1 Thin flank of Beef

5 Forequarters of Mutton

1 Sheep's Pluck 1 Sheep's Head

Fluke.

1 Sheep's Liver

Died in Transit.

1 Sheep's Carcase

Urticaria.

1 Pig's skin & back fat

(b) Other Foods.

Unsound.

1½ boxes of plaice

5 stone of Roker wings

I cwt. new potatoes 3 kits of crabs

TABLE II.

NUMBER OF PIGS' CARCASES INSPECTED FROM 1st JANUARY TO 31st DECEMBER, 1927, WITH ANALYSIS OF SURRENDERS ON ACCOUNT OF DISEASE (TUBERCULOSIS).

						9 1			,	OBERCO	20010).			
1927	No. of Carcases Inspected.	No. of Heads Diseased.	No. of Carcases Diseased.	No. of Sides Diseased.	No. of Fore Quarters Diseased.	No. of Hind Quarters Diseased.	No. of Legs Diseased.	No. of Shoulders Diseased.	Plucks (Lungs, Livers and Hearts).	Mesenteries, Stomachs and Intestines	Pieces of Pork.		Weights	
January Sebruary March April May une uly Lugust Eeptember October Jovember December Total	699 696 832 756 718 463 851	25 28 39 28 40 14 17 25 36 33 29 34	1 - 1 1 - 1 - 2 1 2 1 2	1 1 - 2		Middlekekel 1 10 1		1 2	13 37 9 11 7 15 10 15 15 15 15 18	184 lbs. 336 ,, 168 ,, 176 ,, 128 ,, 196 ,, 104 ,, 146 ,, 256 ,, 152 ,, 146 ,, 208 ,,	32 lbs. 35 ,, 56 ,, 30 ,, 10 ,, 123 ,, 80 ,, 8 ,,	Tons Cwt 6 11 8 5 10 5 1 7 8 13 15 13	s. Qrs. 3 3 3 3 3 1 3 0 0 1	Lbs. 23 25 14 23 8 23 12 1 8 23 12 7

Part sent to refuse destructor.

TABLE III.

Counties from which animals were consigned, and percentage diseased (1st Jan.—31st Dec. 1927).

County	fr At	o. of Towns com which nimals were consigned	No. of Carcases Inspected	No. of Animals Diseased	Percentage of Animals Diseased
Bucks		4	67	_	-
Cambridgeshire		2	159	1	.63%
Cardiganshire		1	29	2	6.9 %
Dorset		9	2314	133	5.74%
Essex		3	114	4	3.50%
Gloucestershire		1	174	5	2.87%
Hampshire		16	988	33	3.34%
Ireland		2	996	41	4.11%
Kent		1	1	_	_
Leicestershire		1	17	_	_
London		-1	.734	10	1.36%
Middlesex		12	1697	21	1.24%
Norfolk		3	102	4	3.92%
Somerset		8	564	33	5.85%
Staffordshire		2	51	2	3.92%
Suffolk		9	702	25	3.56%
Surrey		7	320	4	1.25%
Sussex		3	290	6	2.06%
Warwickshire		1	1212	45	3.71%
Wiltshire		2	61	2	3.23%
Yorkshire	••••	1	11	1	9.09%
Total		89	10603	372	3.50%

BIRTH-RATE, DEATH-RATE, AND ANALYSIS OF MORTALITY DURING THE YEAR, 1927.

Provisional figures. The rates have been calculated on a population 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. As the registration of stillbirths did not come into operation until the 1st July, 1927, no stillbirths are included).

_	Birth-rate	Annt	NNUAL DEATH-RATE PER 1,000 POPULATION. RATE PER 1,000 BIRTHS									PERCENTAGE OF TOTAL DEATHS				
	per 1000 Total Population	All	Enteric	Small	Measles	Scarlet	Whooping	Diphtheria	Influenza	Violence	Diarrhoea and Enteritis (under 2 yrs.)	Total deahts under 1 year	Certified by Registered Medical Practitioners	Inquest	Certified by Coroner after P.M. No Inquest	Uncertified Causes of
England and Wales	16.7	12.3	0.01	0.00	0.09	0.01	0.09	0.07	0.57	0.51	63	69,	91.7	6 6	0.7	1.0
107 County Boroughs and Great Towns, including London	17.1	12.2	0.01	0.00	0.12	0:01	0.10	0.08	0.49	0.46	8.3	71.	91 9	6.6	0.9	06
155 Smaller Towns (1921 Adjusted Population, 20,000—50,000)		113	0.01	0.00	0.07	0 01	0.08	0.05	0.58	0.41	5.0	68.	92.7	5.8	0.3	1.2
London	16.1	11.9	0.01	0.00	0.04	0.01	0.12	0.09	0.39	0.51	7.5	59.	\$0.3	7.9	1.8	0.0
Acton	16.11	11.04	0 01	0.00	0.00	0.00	0 03	0.61	0.3	0.3	6.8	60.	94.1	4.4	15	0.0

30

VITAL STATISTICS FOR THE WHOLE DISTRICT DURING 1927 AND PREVIOUS YEARS.

TABLE II.

		Bir	ths	Total Regis	tered	Transf		Nett	Deaths be	elonging	to the
Population estimated to		Ne	ett	in the District		Dea	iths		1 year Age	At all Ages	
Year	Middle of each Year	Number	Rate	Number	Rate	of Non-Residents Registered in the District	of Residents Registered outside Dist.	Number	Rate per 1,000 Births	Number	Rate per 1,000 inhabitants
1922	62,390	1203	19.3	404	6.5	14	214	75	62	632	10.1
1923	62,720	1171	18.6	368	5.8	11	243	77	65	599	9.5
1924	62,980	1158	18.4	488	7.7	8	235	65	56	715	11.2
1925	63,110	1047	16.5	446	6.8	18	241	80	76	669	10.6
1926	63,040	1098	17.4	422	6.7	15	250	60	55	657	10.4
1927	63,750	1026	16.1	445	6.9	21	280	62	60	704	11.04

TABLE III. AGES AT DEATH, AND WARD DISTRIBUTION OF DEATHS IN 1927.

TABLE III. AGES AT	2211111	211111	MARINE WATER				OF					
				AGE	IN YE				\	VARD DIS	TRIBUTIO	N.
Causes of Death.		All ages	Under 1 year 1 and	2 and under 5	5 and under 15	under 25 25 and		65 and upwards	North East	North West	South East	-South West
Vhooping Cough carlet Fever	enum	2 1 1 18 15 9 94 — 13 41 62 79 46 10 12 7 4 1 5 18 10 12 7 48 11 5 18 3 oon 1 142 8 10 142 —	8 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -	2	3 1	14 23 1 2 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	5 12 5 12 8 48 1 2 2 4 7 3 29 1 3 29 1 10 5 12 2 4 7 1 1 5 3 1 — 1 2 1 1 5 3 1 — 2 4 3 3 3 14 34	- 6 - 3 3 37 - 10 29 26 54 11 13 2 2 - 1 - 2 10 - 2 - 10 - 2 - 2 - 74	2 -1 12 4 22 -2 14 17 24 10 11 2 5 1 2 - - - - - - - - - - - - - - - - - -	1 5 - 1 1 3 17 - 4 7 7 9 9 2 1 1 1 1 8 1 1 - 8 1 1 30 - 1 1 30 - 1 1 1 30 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 26 - 3 11 8 21 9 8 2 3 2 1 1 6 2 6 23 -	2 - 6 - 19 1 29 - 4 9 233 255 1 188 3 3 3 3 3 4 1 2 4 4 1 1 488 - 1 1 488 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
TOTAL		704	62	10 12	19	30 8	35 197	289	187	142	159	216

INFANTILE MORTALITY, 1927.

	Ages.									, Wards.				
Causes of Death.	Total	Under 1 week	1-2 weeks	2-3 weeks	3 4 weeks	1-3	=	3-6 months	6—9	9—12 months	North East	North West	South East	South
Scarlet Fever Bronchitis Pneumonia Meningitis Convulsions Diarrhoea Congenital Debility and Atrophy Congenital Malformation Marasmus Premature Birth Injury at Birth Pemuigus Osteo-myelitis Interssussception Other Causes	1 8 7 1 0 7 4 4 3 14 6 1 1 1	2 3 11 5	1	1 1	1 1		3 1 1 2 2 2	1 1 2 1 2 1	1 2 3	1 1 1 1 1	1 1 1 1 1 4 2 1	1 1 1 2 1 4 1	1 1 2 2 2 1 3	5 4 1 3 1 1 3 3 3
Total	 62	21	2	2	3	10	0	9	9	6	14	14	12	22

33

9278

CASES OF INFECTIOUS DISEASE NOTIFIED DURING THE YEAR 1927.

		C	cases n	Total cases notified in Wards.								
Notifiable Disease.	At all Ages	Under 1	to 5	6 to 15	16 to 25	26 to 45	46 to 65	65 and up- wards	North East	North West	South East	South
Scarlet Fever Diphtheria Enteric Fever Pneumonia Puerperal Fever Puerperal Pyrexia Encephalitis Lethargica Ophthalmia Neonatorum Erysipelas Typhoid Anterior Poliomyelitis Polio-Encephalitis Dysentery Dysentery Post Partum Fever Tuberculosis (Resp.) Tuberculosis (Other)	137 69 1 44 2 7 24 5 3 1 1 1 128 26	2 - 2 - 7 - 1 - -	50 20 6 1 1 1 1	70 42 6 	9 2 4 1 1 3 46 8	6 5 1 11 1 7 1 - 8 - - - 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	10 - 1 - 7 1 - 1 - 23 6	5	48 29 8 -1 2 5 2 -1 1 1 40 6	29 11 1 2 1 2 1 1 8 2 1 1 6 6	22 10 16 1 4 1 21	38 19
Totals	458	12	81	136	74	96	48	-11	143	81	82	152

TABLE VI.

CASES REMOVED TO HOSPITAL.

CASES	IVE	JOAFD	10 110	VOI IIII	Lds	
		N. East.	N. West.	S. East.	S. West.	Total.
Scarlet Fever		28	20	19	34	101
Diphtheria		24	11	10	18	63
Pneumonia		2	_	1	2	5
Encephalitis Letharg	rica	_	_	1	-	1
Anterior Poliomyeliti		_	-	_	1	1
Amoibic Dysentery		1	_	_	_	. 1
Polio Encephalitis		1	_	-	-	1
Paratyphoid Fever		1	1	-	_	2
Puerperal Fever		1	2	1	3	7
Erysipelas		2	3	1	2	8
		60	37	33	60	190
TABLE VII.						

TABLE VII.					
	В	BIRTHS			
			Male	Femal	e
	Total Births		536	490	
	Legitimate		514	473	
	Illegitimate			17	
Ward distri	bution of Births	notified	in the	District.	
N. East.	N. West	S. Eas	st	S. West	Total
226	166	141		314	847
Outside birt	ths notified.				
N. East.	N. West	S. Eas	st	S. West	Total
46	24	24		36	130
Births regis	tered but not pre	eviously	notified	d.	
N. East.	N. West	S. Ea.	st	S. West	Total
12	0	6		4 .	22
Still Births.					
	Inside 21.	(Outside	7.	
Notif	ications were rec	eived fro	-: mc		

TABLE VIII.

INFANT WELFARE CENTRES, 1927.

663

342

Doctors and Parents

Midwives

Health Visitors' Attendances		 199
		 1623
Number of attendances by children		 13112
Number of children under one year of age		 678
Number of children over one year of age		 945
Children who attended the Clinic for the firs	t time	 723
Children treated at Dental Clinic		 94
Children treated at Ophthalmic Clinic		 11
Children treated for Enlarged Tonsils and A	denoids	 16

ANTE-NATAL CLINIC.

Number of Attendances b	ov Dr.	Bell			9
Number of Expectant Mo	****	2:			
Number of attendances ma	****	9:			
Mothers referred for Dent	S	14			
Mothers supplied with Den		3			
Midwives fees paid	itures	••••			
	D.:	1 3 5 11			
Expectant Mothers to who	d	3:			
Number of packets of drie	ed milk	supplied			374
INC	MIECA	o Emo			
INC	QUEST	S, ETC.			
Inquests held—33.					
Causes of death :-					
Suicide					8
Knocked down by me				****	8
Heart Disease					4
Gastric Ulcer		****			1
Pneumonia	****	****	****	****	1
Accidental fall	****		****	****	1
Injury to finger		****	****		1
Accidental Explosion	****	****	****	****	1
Want of attention at	birth		****		1
Gunshot wound	Olitii				1
Syncope	****		****		1
Cerebral Hæmorrhage		****	****		1
Tubercular Glands of 1	Visal-			****	1
Accidental Burns	Neck				1
			••••	****	1
Found Drowned					1
Over-exertion on a full	stoma	ch		****	1
Coroners certificate with In	namest_	_11			
	rquest				
Heart Disease					7
· Cancer		****			1
Pneumonia					1
Arterio-scherris	****				1
Pulmonary Embolism		****			1

FACTORIES, WORKSHOPS AND WORKPLACES.

1.—Inspection of Factories, Workshops and Workplaces. Including Inspections made by Sanitary Inspectors.

	· Nu	imber of
Premises.	Inspections.	Written Notices.
(1).	(2).	(3).
Factories (Including Factory Laundries).	83	27
Workshops (Including Workshop Laundries	318	15
Workplaces (Other than Outworkers' premis	4	
Total	405	42
2.—Defects found in Factories, Wo	rkshops and I	Workplaces.
Particulars.	Found.	Remedied.
(1).	(2).	(3).
Nuisances under the Public Health		
Want of Cleanliness	26	26
	Nil	Nil
	Nil	Nil
Want of drainage of floors		Nil
Other nuisances	6	6
Sanitary Accommodation :-		
Insufficient	4	4
Unsuitable or defective	6	6
Not separate for sexes		_
Offences under the Factory and W		:
Illegal occupation of undergro	und	2771
Bakehouses	Nil	Nil
Other Offences	Nil	Nil
То	tal 42	42
3.—Outwork in unwholesome prem	ises, Section	108 Nil.

3 .- Outwork in unwholesome premises, Section 108

HOUSING.

Number of houses erected during the year :-	
(a) Total (including numbers given separately under (b)) 309	
(b) With State assistance under the Housing Acts:—	
(i) By the Local Authority mil	
(ii) By other bodies or persons Mil Nate.	
xact figure	, kee
1.—Unfit Dwelling Houses.	eport
Inspection.	
(1) Total number of dwelling houses inspected for housing defects (under Public Health or Housing Acts)	1,088
(2) Number of dwelling houses which are inspected and recorded under the Housing (Inspection of District) Regulations, 1910, of the Housing	-,000
Consolidated Regulations, 1925	850
(3) Number of dwelling houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation	Nil
(4) Number of dwelling houses (exclusive of those referred to under the preceding Sub-Head) found not to be in all respects reasonably fit for human	
habitation	831
2.—Remedy of Defects without Service of Formal Noti	CES.
Number of defective dwelling houses rendered fit in consequence of informal action taken by the Local Authority or their Officers	612
.—ACTION UNDER STATUTORY POWERS.	
Proceedings under Section 3 of the Housing Act, 1925.	
 Number of dwelling houses in respect of which notices were served requiring repairs Number of dwelling houses which were rendered fit after the service of formal notices:— 	219
(a) by owners	219
(b) by local authority in default of owners	Nil

	(3)	Number of dwelling houses in respect of which Closing orders became operative in pursuance of declarations by owners of intention to close	Nil
B	-Pro	ceedings under Public Health Acts.	
	(1)	Number of dwelling houses in respect of which notices were served requiring defects to be remedied	238
	(2)	Number of dwelling houses in which defects were remedied after service of formal notices:— (a) by owners (b) by local authority in default of owners	238 Nil
C	-Proc	ceedings under Sections 11, 14 and 15 of the House Act, 1925.	sing
	(1)	Number of representations made with a view to making of Closing Orders	Nil
	(2)	Number of dwelling houses in respect of which Closing Orders were made	Nil
	(3)	Number of dwelling houses in respect of which Closing Orders were determined, the dwelling houses having been rendered fit	Nil
	(4)	Number of dwelling houses in respect of which Demolition Orders were made	Nil
	(5)	Number of dwelling houses demolished in pursuance of Demolition Orders	Nil

STAFF TO WHOSE SALARY CONTRIBUTION IS MADE UNDER THE PUBLIC HEALTH ACTS OR BY EXCHEQUER GRANTS.

There has been no change in the Staff.

D. J. THOMAS, M.R.C.S., L.R.C.P., D.P.H., Medical Officer of Health (Medical Superintendent of the Isolation Hospital and School Medical Officer).

M. W. Kinch. Member of the Royal Sanitary Institute, holds Meat Certificate; Senior Sanitary Inspector. (Inspector under Animals Acts and the Rag Flock Act).

J. J. Jenkins Cert. Sanitary Institute; holds Meat Certificate. Sanitary Inspector. (Inspector under Fabrics Mis-description Act).

E. W. BROOKS. Cert. Sanitary Institute. Sanitary Inspector.

J. J. Matthews. Cert. Sanitary Institute. Sanitary Inspector; holds Meat Certificate.

Miss A. Cooksey. Certificate Sanitary Institute. Health Visitor.

Miss J. Welsh. Certificate Sanitary Institute, c.m.B., Health Visitor.

Mrs.Light. Clerk.

I have again to thank all the members of the Public Health Department for ungrudging assistance during the year.

I am,

Your obedient servant,

D. J. THOMAS.