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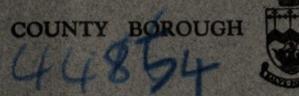
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OF SOUTHPORT.



# REPORT

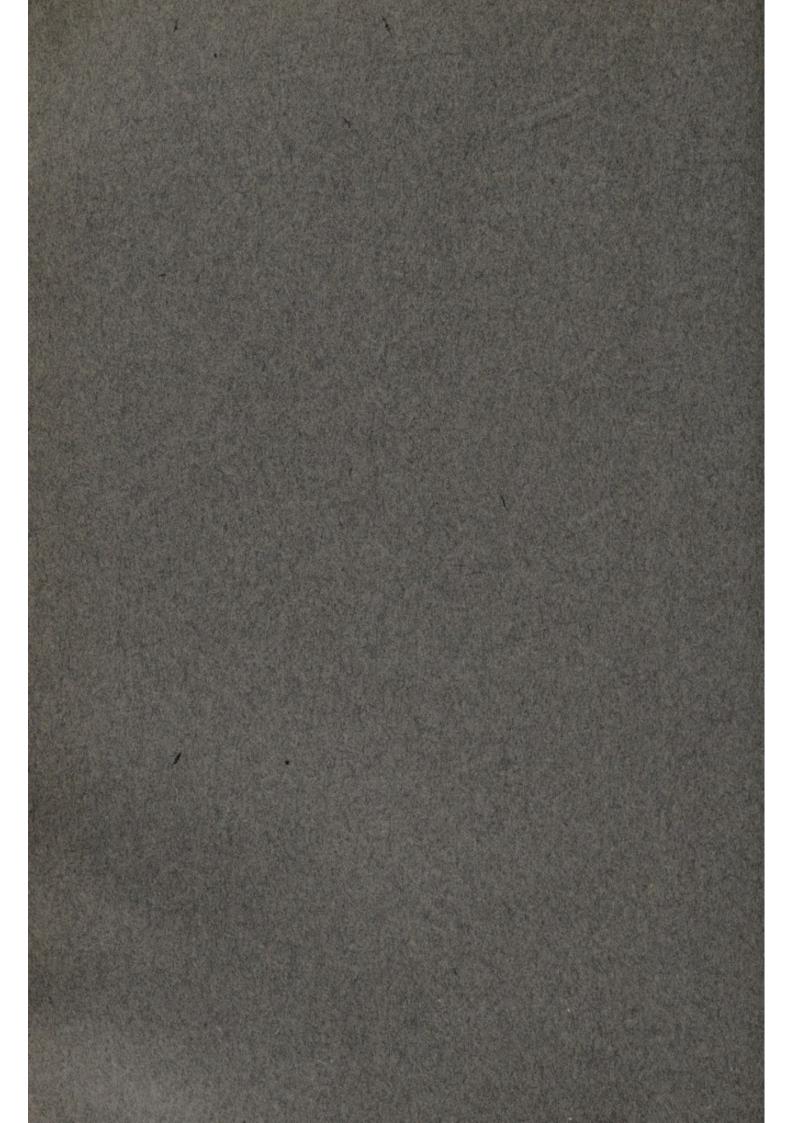
UPON THE

# Health and Sanitary Condition

OF THE

County Borough of Southport,

For the Year 1928.





#### OF SOUTHPORT.



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Rateable Value 1st April, 1928 ... ... £771,777

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#### THE HEALTH COMMITTEE.

THE WORSHIPFUL THE MAYOR (Councillor J. Brook, J.P.).

Chairman: Councillor J. G. WILKINSON, J.P.

Vice-Chairman; Councillor Dr. G. R. Anderson, M.B.E., J.P.

Ald. C. AVELING, J.P.

Ald. F. HARLING, J.P.

Ald. Dr. A. W. LIMONT, J.P.

Ald. W. H. M. MAWDSLEY, J.P.

Ald. W. H. Potts, J.P.

Ald. A. Tomlinson, J.P.

Counc. J. R. BILLINGTON.

Counc. T. BALL.

Counc. Dr. H. COATES.

Counc. REV. D. R. DAVIES.

Counc. W. H. DENT.

Counc. Miss Hartley, J.P.

Counc. G. H. HIBBOTT, J.P.

Counc. Dr. E. W. LEWIS.

Counc. A. Peploe, O.B.E.

Counc. Miss RIMMER, J.P.

Counc. T. Scholes.

Counc. A. O. SMITH.

# TO THE CHAIRMAN AND MEMBERS OF THE HEALTH COMMITTEE OF THE COUNTY BOROUGH OF SOUTHPORT.

MR. CHAIRMAN, LADIES, AND GENTLEMEN.

I beg to submit my report on the sanitary conditions of the Borough during the year 1928. The statistics adduced speak for themselves.

With each succeeding year further progress in the conception of public health services is made. This progress cannot be realised in practice without careful organisation and greater demand on the time and skill of the staff concerned.

Tuberculosis Department. It has been possible to examine more "contacts"—this is an important method of discovering cases at a very early stage; and in this respect the X-ray examination is invaluable. The X-ray Department gives very great satisfaction; the results are excellent and the value of this department is such that one now wonders how it was possible to work without it. A larger number of doubtful cases are being brought to the Dispensary for opinion by the general practitioners, and I venture to say that they are not disappointed in the efforts of the staff to co-operate with them.

The Artificial Sunlight Clinic has been carried on now for over twelve months. The cases which are included in this report are those referred to the Clinic from the Tuberculosis, School Medical, and Child Welfare Departments. The Clinic has given satisfaction, and although it is difficult to assay exactly the amount of benefit received, there is an unquestionable general improvement of health as found on examination and by the reports of the parents. Five cases of lupus are under treatment and although benefit has been derived we are unable to give the intensive local application of the ultraviolet light which is called for in these cases. In order to do this it would be necessary to expend £55 on an additional lamp.

More cases were admitted to the Maternity Hospital. The results continue to be excellent, and the Ante-natal work conducted in connection with the department is of the greatest value to the mothers. I rely very largely on the extension of this service for a reduction of the rate of maternal mortality which prevails throughout the country; this death rate can undoubtedly be reduced by early and exact knowledge of each patient's condition. Miss Hartley has already received your acknowledgment of her munificent gift of a new Maternity Hospital, but the appreciation of those who are immediately engaged in the work, either clinically or in its organisation, is very sincerely proffered. The present hospital has fully proved the value of the scheme, and in a modern ad hoc building perfectly equipped the work must go on from strength to strength.

I remain,

Faithfully yours,

GEO. C. BARNES.

May, 1929.

#### PUBLIC HEALTH OFFICERS.

Medical Officer & School Medical Officer	G. C. Barnes, D.P.H.					
Deputy ,, ,,	W. E. FitzGerald, D.P.H.					
Assistant Medical Officer of Health	Dorothy E. Mathews, D.P.H.					
V.D. Medical Officer & Dermatologist	Dr. H. Bardsley, M.R.C.S., L.R.C.P.					
Maternity Ward Obstetrician-in-Charge	Dr. A. S. Garden, M.D. Aberdeen;					
	L.M. Dublin.					
Hon. Consultant Obstetrician	Dr. Leith Murray, M.D., M.B., Ch.B.					
Consultant Tuberculosis Officer	Dr. John Hay, M.D., F.R.C.P.					
Nose and Throat Specialist	Dr. C. Yorke, M.D., F.R.C.S.Eng.					
Veterinary Surgeon	H. G. Hewetson, M.R.C.V.S.					
Analyst	H. Davies, M.A., B.Sc., F.I.C.					
Dentist	J. H. Highton, L.D.S.   Jointly					
Do	W. Martland, L.D.S. with					
Dental Mechanic	R. Sanderson. Committee					
Chief Sanitary Inspector	J. Peet (C).					
District Sanitary Inspector	W. Halsall.					
Do	K. Aspinwall (C.).					
Do	S. J. Wilde (C.).					
Do	G. Huggins (C.).					
Food Inspector	P. Wright (C.).					
Shops Inspector	G. Hadley (C.).					
Ambulance Attendant and Infection						
Disease Enquiry Officer	H. Magee.					
Ambulance Driver	A. W. Armitage.					
Senior Clerk	H. Griffiths.					
Clerk	Miss E. Wilkinson.					
Chief Health Visitor	,, V. M. Willder (A.B.C.)					
Assistant Health Visitor	,, A. Bullen (B.C.)					
Do	,, E. Palmer (A.B.C.)					
Do	" M. Lewis (A.B.C.)					
Do	,, A. Probert (A.B.C.)					
Do	G. M. Dilchton (11.D.)					
Do						
Do	" E. Dearden					
Dentist's Assistant	Miss H. Rimmer.					
Clerk	Mrs. E. Whelan (A.B.C.)  ", E. Dearden  Miss H. Rimmer.  ", I. Lund.					
Do	" D. Illingworth.					
Do	" G. Singleton.					
Caretaker, 2, Church Street	T. Wright.					
Do. Slaughterhouses	F. Beaton.					
Victoria Baths						
Canning Road Baths Superintendent	S. Hodson.					
Compton Road Baths						
Compton Road Davis						

A .- Trained Nurse. B .- Central Midwives Board. C .- Royal Sanitary Inst.

#### NEW HALL HOSPITAL.

## **REPORT, 1928.**

Population at Census, 1911				. 69,	648				
Do. do. 1921					900				
Do. (estimated by Reg. Genl.), middle of 1928 79,290									
Area of Borough (Excluding Foreshore, 14,196 acres),									
acres					304				
	1923	1924	1925	1926	1927	1928			
Birth Rate	13.76	12.90	13.10	11.90	12.18	11.54			
Academic Corrected Death Rate		_	10.70	10.12	11.50	11.17			
Death Rate, Zymotic Diseases	0.26	0.15	0.14	0.23	0.08	0.20			
Infantile Death Rate	65	63	61	62.5	48	75			
(For various other rates of previous	years,	see Tal	ole VII	I, and	Text i	nfra.)			

#### POPULATION.

The number of New Houses erected and completed during the year was about 300. The number of children attending Elementary Schools has at last shewn a definite increase during the last four years of about 230.

The Registrar General's estimate for the middle of 1927 was 78,670, and for the middle of 1928 was 79,290, which is adopted as a basis for the rates for 1928.

#### SOCIAL CONDITIONS.

The population is almost entirely residential, with the necessary ancillary occupations. There is one important motor works.

Poor Law Relief :-

Amount of Relief granted during 1928. £10,176 No. of Persons in receipt of Out-door Relief Jan. 1, 1929.

779

Southport Infirmary :-	1924	1925	1926	1927	1928
In-Patients—Total Treated	1,334	1,468	1,336	1,562	1,648
Out-Patients- do	3,175	3,425	3,682	3,649	4,723

Further assistance is given by the Southport and Birkdale Provident Society, and by the Southport and Birkdale District Nursing Society.

### Vital Statistics.

#### BIRTH-RATE.

The "Corrected" Births numbered 915 (43 less than last year) of which 458 were males and 457 females. The resulting Birth-rate is 11.54.

#### INFANTILE MORTALITY.

Year	Total Births	Legitimate Births	Illegiti- mate Births	Total Deaths	Total Rates	Deaths Legitimate	Rate per 1000	Deaths Illegiti- mate	Rate per 1000
1921	1106	1039	67	77	70	67	64	10	109
1922	1028	965	63	58	56	53	55	5	79
1923	996	937	59	65	65	55	59	10	169
1924	934	876	58	59	63	51	58	8	188
1925	973	917	56	59	61	54	59	5	89
1926	928	863	65	58	62.5	52	60	6	92
1927	958	891	67	46	48	41	46	5	75
1928	915	858	57	69	75	61	71	8	140

The increase in the Infantile Death Rate is due chiefly to more deaths in the first week of life which were mostly unavoidable.

#### DEATH-RATE.

The Death-rate for 1928, after deduction of non-residents registered in the District and the addition of residents not registered in the District. 13·17 per 1,000 per annum, has been attained by applying the number of Deaths, 1,044, to the Registrar-General's estimate of the population for the middle of the year, namely 79,290.

The number of deaths actually registered in the Borough and the Isolation Hospitals was 1,002, of which 429 were males and 573 females. These figures give a gross Death-rate of 12.64 per 1,000 of the population.

If, however, from the above 1,002 deaths are deducted 71 deaths of visitors who came into the town in a precarious state of health, and died after only a short stay here, there remain 931 deaths; from which, by calculation, a "local" death-rate of 11.74 per 1,000 is obtained.

The deaths of persons over 65 numbered 544, being 52 per cent. of the total deaths. The death-rate, 13·17, may be compared with the average death-rate 12·99 for the five years 1924 to 1928 inclusive. The deaths from Organic Heart Disease and Respiratory Diseases show no striking change. I still feel that the Population is somewhat underestimated.

With respect to the death-rate, 13·17, for 1928, as found above, it should be noted that correction has only been made by deduction of deaths of non-residents registered in this district and the addition of deaths of residents registered in other districts.

The Registrar-General supplied a Factor for Correction, 848, for Age and Sex, and on applying this to the above rate, an academically corrected death-rate of 11.17 is attained.

Considerably more than half of the deaths occurred at the age of 65 and upwards, and considerably more than a quarter (27.7%) at 75 and upwards.

In estimating the healthiness or otherwise of a given population, even the academic death-rate is insufficient of itself; at least two other rates must be borne in mind for the consideration of the problem, namely, the Infantile Death-rate and the Zymotic Death-rate.

RATIO OF DEATHS IN EACH OF THE VARIOUS AGE GROUPS TO TOTAL DEATHS (100).

	Under 1.	1-2	2-5	5-15	15-25	25-45	45-65	65 and Upwards
1921	8.4	1.6	1.7	1.1	3.8	9.3	25.3	48-8
1922	5.9	1.1	1.8	1.2	3.9	8.6	27.4	50.1
1923	6.7	2.7	1.3	1.2	2.4	8.7	27-4	49-6
1924	5.9	2.0	1.5	1.0	2.8	10.0	23.9	52.9
1925	6.3	1.7	1.3	1.2	3.0	8.3	25.9	52.8
1926	6.2	0.7	1.2	1.4	2.1	9.1	25.7	58.6
1927	4.3	0.3	1.1	1.1	2.2	8.3	28.3	54.4
1928	6.6	1.7	1.5	1.0	2.4	7.2	27.5	52.1

#### ZYMOTIC DEATH-RATE.

Sixteen deaths, due respectively to Diphtheria (1), Measles (2), Whooping Cough (9), and Diarrhœa (4) gave a corrected Zymotic Death-rate of 0·20 per 1,000. This is a very satisfactory Zymotic Death-rate. Probably some, if not all, of the cases of Infantile Diarrhœa were not of an epidemic nature.

#### CANCER, MALIGNANT DISEASE.

The number of deaths was 136—about the usual incidence. One in seven of all deaths of persons 25 years and upwards were due to this condition.

In a population with an age constitution such as ours the rate must necessarily remain apparently high. The deaths are confined practically to the middle aged and the aged.

#### HEART DISEASE DEATHS.

	Totals	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	100 Up
Valvular Disease	60	-	-	1	3	14	18	18	6		_
Endocarditis	1	-	-	-		-	-	1	-	-	-
Cardiac Asthma	2		1000	-	-	-	2	-	-		-
Myocardial Degeneration	18	-		-	-	3	3	6	5	1	-
Myocarditis	27	-	-	1	-	-	6	9	9	2	-
Cardiac Degeneration	5	-	-	-	_	1	700	3	1	-	-
Fatty Degeneration	2		-	-	-	_		2	-	-	_
Heart Disease	8		-	1	_	3	3	1	-	-	_
Dilatation	3	-	-	-	-	-	1	_	2		-
Myocardial Disease	4		-	_	_	1	1	2		-	_
Chronic Carditis	5	_	_		-	2	2	1	_	-	_
Totals	135	_	-	3	3	24	36	43	23	3	-

Less than half of these were due to Valvular Disease. In the case of many of the Patients it would seem likely to me that their hearts instead of being bad have been of more than ordinary excellence.

TABLE X.—Birth-rate, Death-rate, and Analysis of Mortality during the year 1928.

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

S.	Uncertified Causes of Death.	1.0	9.0	3.54
PERCENTAGE TOTAL DEATHS	Certified by Coroner after P.M. No Inquest.	1.4	1.9	0.28
PERCEN	Inquest Cases	2.9	6.5	5.7
PE OF TO	Certified by Registered Medical Practitioners,	6-06	0.16	92.6 88.7 92.05
PER IRTHS.	Total Deaths under One year.	65	70	62
RATE 1,000 BI	Diarrhoga and Enteritis (under Two years).	7-0	9-6	4-8 10-6 4-4
	Violence.	0.53	0.48	0-41 0-55 0-26
	Influenza.	0.19	0.17	0-21 0-13 0-37
ANNUAL DEATH-RATE PER 1,000 POPULATION	Diphtheria.	90-0	60-0	0-08
,000 Poi	Whooping Cough.	20-0	60-0	0-06 0-09 0-13
E PER 1	Scarlet Fever.	10-0	0.02	0.00
ATH-RAT	Measles.	0.11	0.15	0-08 0-30 0-03
TUAL DE	Small-pox.	00-0	00-0	0000
ANI	Enteric Fever.	0-01	0-01	0000
	All Causes.	11.7	11-6	10-6 11-6 11-17
RATE er 1,000 rotal	Still-births	0.10	0.70	0.53 0.53 0.44
RATE per 1,000 TOTAL	Live Births Live	16-7 0-70	16-9	16.6
	1	England and Wales	including London Towns, 16-9	Populations 20,000–50,000) London Southport

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

## General Housing Conditions.

#### HOUSING ACCOMMODATION.

Three hundred Houses have been erected by private enterprise during the year. None by Corporation.

The cost of labour and materials, especially the latter, both for construction of new and repair of old houses, is still so high that in the presence of restriction on rent it is difficult to get repairs executed.

#### COMMON LODGING HOUSES.

There are five registered Common Lodging Houses, the same number as last year. The conditions generally inside and out are satisfactory.

### Public Baths.

#### VICTORIA BATHS.

These baths, situated on the Promenade are acknowledged to be the most up to date in the North of England. They comprise three plunge baths containing sea water filtered by the most modern mechanical filters A sample of the water taken under crucial conditions showed a state of purity which is altogether exceptional.

During the winter months (November to March) the 1st class plunge is open each week-day for mixed or Family bathing, and is heated to a suitable temperature.

The number of bathers during the year 1928 was 126,054.

There are also 45 Private slipper baths, a complete suite of 24 being allotted for Females, and 21 for Males. Each bath is supplied with hot and cold sea or fresh water. The baths are thoroughly cleansed after every Bather. An up to date water-softening plant is installed giving bathers the advantage of softened fresh water. Number of bathers using the slipper baths during the year 1928, 18,153.

The Turkish baths are fitted with every comfort; cooling rooms and lounge are situated on the ground floor; the hot rooms (3), Vapour, massage rooms, and showers are fixed in the basement. The heating installed in connection with these baths is of the latest device, hot air being driven into the hot rooms by electricity, the old method of coke furnaces being entirely dispensed with. (No. of bathers 3,711.)

#### CANNING ROAD BATHS.

Opened in 1903 in a working class district, these baths serve a very useful purpose; for the small sum of 2d. a private slipper bath may be taken, 1d. extra is charged for either soap or towel. An open air bath is provided free for children up to 16 years of age. 20,000 Children have taken advantage of this bath in one season.

#### COMPTON ROAD BATHS.

These baths opened in 1926, are also situated in a working class district and contain 10 slipper baths and one open air bath. The same charges and conditions are in force as at Canning Road baths. 6,000 persons used the baths during the season.

#### SEA BATHING LAKE, PRINCES PARK.

The water of the Sea Bathing Lake, Princes Park, was submitted to a most critical independent examination in order to determine its bacteriological content.

The samples were taken on a Monday morning of August after a hot and extremely busy week-end. The result showed a most gratifying paucity of organisms of any kind; in fact the content displayed was comparable with that of drinking waters except the purest. But this finding, which is in accordance with my expectations, is nevertheless exceedingly satisfactory and justifies the most complete confidence in further prospective users of the bath.

Comparison of the bacteriological content is challenged with that of any other bath.

## Infectious Diseases.

DISEASE.	NOTIFICATIONS.					DEATHS.				CASE MORTALITY.					
Year	1924	1925	1926	1927	1928	1924	1925	1926	1927	1928	1924	1925	1926	1927	1928
Enteric Fever	16	4	5	7	1	1	-	1	1	_	6.25	-	20.0	14.3	-
Scarlet Fever	107	132	132	144	123	-	-	1	-	-	-	_	0.76	-	-
Diphtheria	35	44	35	49	71	-	2	1	-	1	-	4.54	2.86	-	1.41
Measles*	288	672	887	401	674	2	3	5	2	2	0.69	0.45	0.56	0.50	0.30
Whooping Cough*	292	240	418	118	310	4	2	5	3	9	1.37	0.83	1.03	2.54	2.90

<sup>\*</sup> Only first case in a house in two months is notifiable.

#### INCIDENCE RATE PER 1,000 POPULATION.

Ales anima e	Small-pox	Scarlet Fever	Diphtheria	Enteric	Puerperal	Puerperal Pyrexia	Erysipelas
England and Wales		2·61 1·55	1.55 0.89	0.09	0.00	0·14 0·08	0·42 0·36

#### WHOOPING COUGH.

Cases-310.

Mild type.

Deaths—9.

MEASLES.

Cases-674.

Mild type.

Deaths-2.

#### VENEREAL DISEASE.

	Out-Patient Attendances.	In-Patient Days.
1921	 9,188	 2,323
1922	 11,130	 2,144
1928	 8,883	 1,327
1924	 8,436	 1,314
1925	 9,506	 1,476
1926	 12,871	 1,976
1927	 13,299	 2,456
1928	 12,820	 2,054

### Venereal Disease.

The work of the Department has made steady progress, the total number of new cases being 314 as compared with 280 during the previous year.

The in-patient days show a steady decrease, 2,054 as compared with 2,456 in 1927.

During 1928 there have been seven births of patients suffering from V.D. or having previously had ante-natal treatment.

The total number of attendances in the out-patient Department in 1928 are 12,320 compared with 13,299 in 1927. The proportionate decrease in out-patients' attendances to the increase of new cases is due to the fact that this year there have been many more new cases of Syphilis compared with the cases in 1927.

As regards the treatment of Congenital V.D., 45 children under 5 were admitted, 30 being babies of 1 year.

All cases of Ophthalmia Neonatorum have progressed favourably and there has not been one case of Blindness.

It is my opinion that we are not getting the proper proportion of Gonorrhœa cases (acute and chronic) under treatment. There has been a considerable falling off in the attendances of these cases this year and I think that much can be done in the future, as has been done in the past, by Propaganda, such as lectures and the like. It has been my experience that in the months following Health Weeks many cases of old and latent Venereal Conditions have been brought to light.

Apart from the ordinary activities of the Department a great deal of extra work has been thrown upon the staff by the treatment of Skin Diseases of Non-Venereal Origin.

With regard to the children suffering severely from skin disease such as Impetigo, Eczema, and Scabies, the results have been highly satisfactory and the admission to hospital produces a much more rapid and effectual cure.

My thanks are due to the Assistant Medical Officers, Sister in Charge, Orderlies and Nursing Staff who continue to show keen enthusiasm and interest; this goes a long way to obtain a regular and continued attendance of both the out-Patients and in-Patients, the only means whereby we can hope to combat these diseases.

H. BARDSLEY, M.R.C.S.,

Director of the Skin and Genito-Urinary Department.

### Vaccination.

Appended is a Table showing the percentage of unvaccinated infants found during Medical Inspection of School Children.

	Boys.	Girls.
1909	 13.0	 14.1
1910	 8.3	 9.1
1911	 4.2	 4.7
1912	 23.9	 21.8
1913	 44.0	 45.4
1914	 50.8	 55.7
1915	 53.6	 49.6
1916	 55.6	 50.4
1917	 60.2	 57.5
1918	 63.4	 63.6
1919	 68.8	 67.1
1920	 68.5	 66.7
1921	 73.0	 68.4
1922	 69.0	 78.6
1923	 69.0	 68.0
1924	 76.4	 72.8
1925	 72.9	 74.6
1926	 77.2	 75.5
1927	 35.4	 38.0
1928	 57.6	 61.8

### Insurance Medical Services.

#### HEALTH EDUCATION BY INSURANCE COMMITTEES.

The National Health Insurance Act, 1924, Section 50, enacts that Insurance Committees shall make such provision for the giving of lectures and the publication of information on questions relating to health as they think necessary or desirable, and may if they think fit for that purpose make arrangements with local Education Authorities, Universities, and other Institutions. It will be observed this instruction is mandatory.

When Sir George Newman was here recently he strongly urged the desirability of pursuing this branch of Public Health work. In other Centres the following things have already been done:—

- (a) Public lectures, often accompanied by exhibition of cinematograph films or lantern slides (21 Committees).
- (b) Arrangement of lectures by Insurance Practitioners to persons on their panel lists (12 Committees).
- (c) Distribution of leaflets, pamphlets, blotters, etc., on the care of health in such matters as personal hygiene, eating, drinking, fresh air, etc., and publication of posters (42 Committees).
- (d) Participation in Health Week Campaigns, Exhibitions, etc., (25 Committees).

Sir George Newman further urged the desirability of giving lectures to the Panel Doctors themselves.

Such methods are amongst those that might well be adopted to diffuse the knowledge of how to **keep** the health of the healthy members of the population:—"to equip every citizen with knowledge of the ways in which the laws of nature may be observed and respected even in an excessively urbanized environment."

## Tuberculosis Report.

#### TUBERCULOSIS.

One hundred and fourteen fresh cases were notified during 1928. Of these eighty-one were cases of Pulmonary Tuberculosis and thirty-three of non-pulmonary disease. Approximately 70% of these cases receive treatment at the Tuberculosis Dispensary. This percentage is on the whole satisfactory. Many cases are brought for examination and consultation before the disease is notified. No effort is spared to encourage this. Our old bugbear of failure to obtain an early diagnosis is still with us, but the examination of doubtful cases has resulted in the discovery of at least a certain number of early cases.

The results obtained at the Sanatorium are satisfactory and are not inferior to those achieved at larger Institutions. The patients are as soon as possible given exercise of increasing amount and later take part in domestic work. A considerable amount of gardening work has been done during the past year:—weeding, delving, raking, grass sowing, grass cutting with small mower and scythe, clipping edges, etc., are the kinds of work which have been engaged in.

The new X-ray Department has proved to be of great service. As a help in diagnosis, the distinction between Pulmonary Tuberculosis and other chest diseases, the determination of the extent of the disease, and as a means of determining the progress of a case, it has been of the greatest assistance. The plant is easily worked and the photographs give good detail. Two cases at present are undergoing Artificial Pneumo-thorax treatment; the results are satisfactory, and without recourse to this method the outlook in both cases would have been very grave indeed.

#### ARTIFICIAL LIGHT TREATMENT.

The lamps installed at Church Street are of the long-flame carbon-are type; the carbons are cored with metal so that when measured by the Spectroscope, the spectrum, similar to that of the sun, gives an intensity of ultra-violet rays only found in Nature on a bright clear day. A comparison with natural sunlight made in January showed that the sun gave long wave ultra-violet rays of poor intensity down to about 3,500 Angstrom Units. The Clinic lamps showed intense bands between 4,000 and 3,000, another intense band at 2,500 A.U., and readings as low as 2,100 A.U. could be obtained though the intensity was very low and tailed off between 2,500 and 2,100 A.U. (Rays are measured by Angstrom Units.)

Site of Disease.	No.	Average Duration of Treatment.	Other Treatment.	Condition at end of year.
Elbow Joint	1	5 months	Sanatorium	Arrested.
CERVICAL GLANDS—	0.6			
Open	11	6 months	Nil	Arrested.
Closed	5	3 months	Nil	Improved.
Skin (Lupus)	4	10 months	Nil	Improved.
Femur (Periostitis)	1	1 month	Nil	Arrested.
Abdominal Glands	1	8 months	Nil	Arrested.
Incipient Pulmonary T.B	4	5 months	Nil	No improvement.
Bazin's Disease	1	8 months	Sanatorium	No lasting improvement.

The case of Tuberculosis of the elbow joint appeared to gain great benefit from local irradiations with the lamps. Pain was relieved and the cedema round the joint reduced. The patient was also undergoing Sanatorium treatment, and movement of the elbow was limited by a splint during the time she was attending the light clinic, but there is no doubt that the irradiation was a valuable help.

Closed cases of cervical adenitis improved in general condition and in some cases the glands at the end of the course were definitely reduced in size. In two or three cases surgical interference had to be resorted to on account of the softening of a gland with resulting suppuration but treatment was continued after the operation for removal or drainage of the gland.

Open cases, i.e. cases with discharging sinuses, have benefited greatly and in no case has the sinus failed to close.

The cases of lupus have very definitely improved but with the carbon are irradiation alone no complete cure has been effected. Local treatment with the Kromayer lamp is indicated to deal with the active edge of the lupus patch.

Children who have been classified as cases of incipient Tuberculosis have not benefited by treatment and we do not now recommend such cases for general irradiation. The home conditions are usually such that any benefit which may be derived is rapidly overweighed, and probably increased metabolism caused by the light treatment is not compensated for at home. In some of these cases there was loss of weight.

The case of Bazin's disease was treated for eight months and it is impossible to say that any lasting benefit ensued.

Cases	notified :—	Pulmona	ıry.	Non- mons		Total.
	Males					
	Females	43		 18	 	. 61
		81		33		114

Duplicate notifications excluded.

#### DISPENSARY.

Tuberculosis cases: 1st visits	129
Re-visits	1,558
Contacts visited	3,826
Contacts examined by Tuberculosis Officer: 1st visits	59
Re-visits	10
Clinical examinations by Tuberculosis Officer:	
1st examinations	114
Re-examinations	495
Clinical examinations by Consulting Officer	47
Patients seen by Health Visitor at Dispensary	412
Hours in Dispensary	280
Total visits to Dispensary	1,068
Individual Patients attending Dispensary	303
" Contacts " "	69

#### NEW CASES AND MORTALITY DURING 1928.

Age	211				Cases.		· Learner		eaths	
Perio	ds.		Pulr	n'ry. N	Von-Pul	m'ry.	Puln	n'ry.	Non-Pu	ılm'ry
			M.	F.	M.	F.	M.	F.	M.	F.
0			 _	_	_	1	_	_	_	3
1			 1	-	6	2		-	3	1
5			 1	1	4	7		1		_
10			 1	2	_	3	_	1	-	_
15			 2	5	-	_	_	2		1
20			 3	8	3	1	1	4	1	_
25			 8	18	1	2	4	1	1	-
35			 6	3	_	-	3	4	_	-
45			 12	3	1	-	7	-	-	
55			 2	2	_	1	3	5		_
65 a	nd up	wards	 2	1	-	1	2	2	-	-
		Totals	 38	43	15	18	20	20	5	5

## TABLE I. TUBERCULOSIS SCHEME.

Return showing the work of the Dispensary (or Dispensaries) during the year 1928.

			ONAR				LMON	1	1	OTAL		s one yea	1020.
Diagnosis.	Ad	ults	Chil	dren	Adı	ults	Chil	ldren	Ad	ults	Chil	dren	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
—New Cases examined during the year (excluding contacts):  (a) Definitely tuberculous  (b) Doubtfully tuberculous  (c) Non-tuberculous	25 1	31 2 —	2 1 —	1 1 —	2 -	2 - 1	7 -	9	27 1 1	33 2 1	9 1	10 = 79 $1 = 5$ $- = 2$	86
during the year:—  (a) Definitely tuberculous  (b) Doubtfully tuberculous  (c) Non-tuberculous	-6	— 11 18			_ _ _	_ _ _			- 8 9			5 =38 18 =56	> 94
-:Cases written off the Dispensary Register as  (a) Cured		3	13	1	1	- 1	-		- 11	3 20	13	1 = 4	- 65
D.—Number of Persons on Dispensary Register on December 31st:—  (a) Diagnosis completed  (b) Diagnosis not completed		86 12	13 23	10 9	18 2	17	39	25 2	116 8	103 12	52 23	35 =306 11 = 54	}360
1. Number of persons on Di Register on January 1st	spens	sary		319	9	T	reatn	nent	was	give	en, a	m Dental at or in asary	9
2. Number of patients transfer other areas and of "lost si cases returned	red fight	rom of "		10	10	ea (a	umberd pra	Hom	oners es of	: Appl	licant	s	23 45
3. Number of patients transfer other areas and cases "lost s	erred ight	to of "		52	11	. N		er of	othe	r vis	its b	y Tuber-	_
4. Died during the year				32	12	H	umbe	Visi	tors	to H	omes	furses or for Dis-	965+322
A (b) and B (b) above in which	Number of observation cases under A (b) and B (b) above in which period of observation exceeded 2 months.						umbe	er of	ns		putu		369
	Number of attendances at the Dipensary (including Contacts)						) X-1	ray	exam	inati	ons	made in sary work	176
monary cases at Orthopaes stations for treatment or	Number of attendances of non-pumonary cases at Orthopaedic Oustations for treatment or supervision						ecem	y R ber	egist	er (	on t	s on Dis- he 31st	170
Hospitals or other Instituti	umber of attendances, at General ospitals or other Institutions approved for the purpose, of patients for						omici ecem	lliary ber	Trea	tmer	nt on	the 31st	24
			15	241	16	th Pe (a	umbersons () For	ear i s:— rm G	n re	spec	of	d during Insured	24 25

#### TABLE II.—RESIDENTIAL INSTITUTIONS.

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

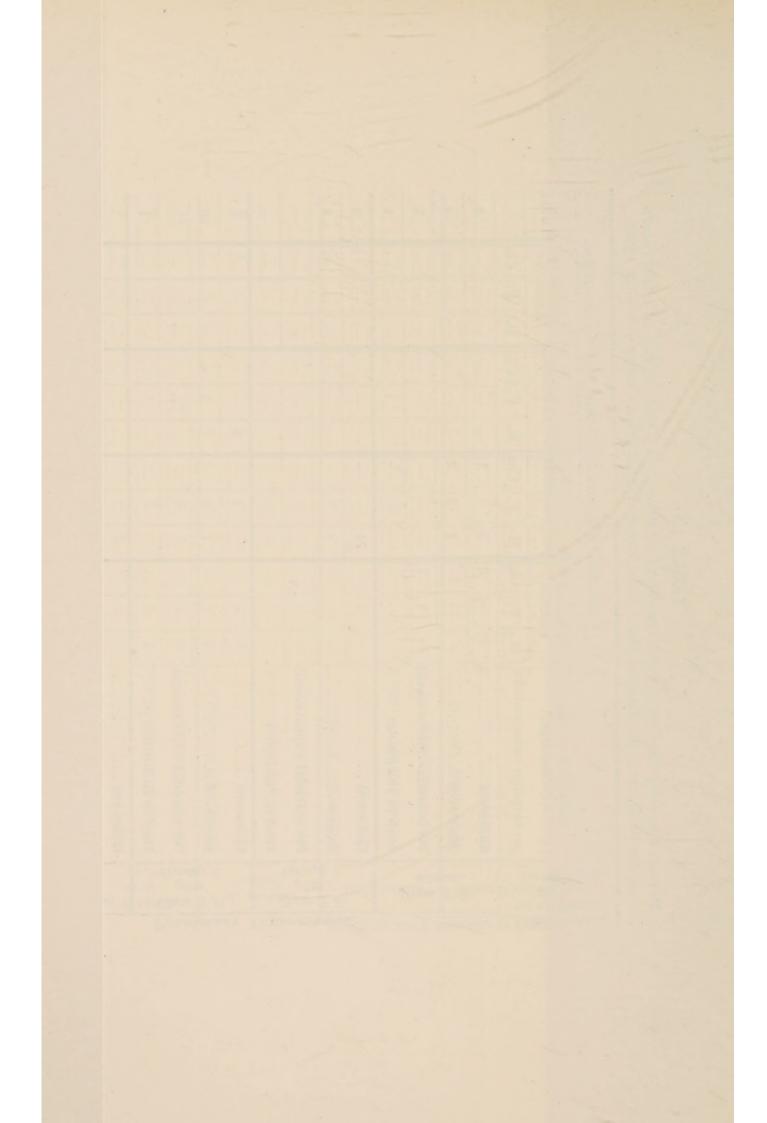
			onary culosis.	Non-Pul Tubere		
	Observa- tion.	" Sana- torium " Beds.	"Hospital" Beds.	Disease of Bones and Joints.	Other Con- ditions.	Total.
Adult Males	1	10	6	1	-	18
Adult Females	1	9	6	1	-	17
Children under 15	_	8	-	2	1	6
TOTAL	2	22	12	4	1	41

## (B) RETURN SHOWING THE EXTENT OF RESIDENTIAL TREATMENT DURING THE YEAR 1928

			In Institutions on Jan. 1.	Admitted during the year.	Discharged during the year.	Died in the Institutions.	In Institutions on Dec. 31
	Adulls	М.	5	33	16	7	15
Number of	Adu	F.	7	30	18	6	13
Patients	Iren	M.	3	7	6	_	4
	Children	F.	2	5	2	-	5
	Adults	M.	_	8	7	-	1
Number of Observa-	A	F.	1	5	3	_	3
tion Cases	Children	M.	2	4	5	_	1
Cases	1	F.	1	6	5	-	2
	Tota	al	21	98	62	13	44

Return showing the immediate results of treatment of Patients and of observation of doubtful cases discharged from Residential Institutions during the year 1928.

Condition at time of discharge.		Quiescent	Improved	No material imp	Died in Institution	Quiescent	Improved	No material improvement	Died in Institution	Quiescent	Improved	No material improvement	Died in Institution	Quiescent	Improved	No material improvement	Died in Institution	Quiescent or Arr	Improved	No material improvement	Died in Institution	Quiescent or Ari	Improved	No material improvement	Died in Institution	Quiescent or Arr	Improved	No material improvement	Died in Institution	Quiescent or Ari	Improved	No material imp	Died in Institution		Tuberculous	Non-tuberculous	Doubtful
time				improvement	uo	-		rovement	on			provement	uo			provement	noi	Arrested		provement	ion	Arrested	-	provement	ion	Arrested		provement	ion	Arrested		improvement	ion				
DE	M.	01	1	1	1	1	1	1	1	1	-	1	-		1	1	4	1	1	1	1	T	1	1	1	1	1	1		1	1	1	1		1	1	1
Under 3 months.	F.		1	-	1	1-	1	1	1	1	-	1	1	1	1	0.1	00	1	1	1		1	1	1	1	1	1	1		1	1	1	1	Under 1 week.	1	1	1
00 %	Ch.	60	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		-	1	1	1	1	1	k.	1	1	11
00	M.	01	1	1	1	-	1	1	1	1	1	1	1	1	1	1	01	1	1	1	1	1	1	1			1	1		1	1	1		1	1	1	
6 months	F.	1	1	1	1	1	1	1	1	0.8	10	1	1	1		-	0.5	1	1	1	1	1	1	18	1	1	1	1		1	1	1	1	-2 W	1	1	1
nths	Ch.	1	01	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1		1	1		1	1	1		10	1			1-2 weeks.	1		
J	M.	1	1	1	1	1	1	1	1	03	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1		1,5		1	10	63	1	-	
-12 months	E.	1	1	1	-	1	i	1	1	1	-	1	1	1	1	10	1	1	1	1	1	1	1.		1	1	1	-	1	1	1	1		W 9	1	-	1
onths	Ch.	1	1	1	1	1	1	1	1	1		1		1			1	1	1	1	1	1	1	1	1	1	10	1	1	1	1	1	1	4 weeks.	-		-
_	M.	1	1	1	1	1	1	I	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	J	1	1			1	1	1	~	-	01	. 3
More than 12 months	E.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.	1	1	1	1	1	1	1	1	1	1			1	1		More than 4 weeks.	-	-	1 1
ths	Ch.	1	1	1	1	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	han ks.	-	00	8
TOTAL		6	4	01	1	01	04	1	1	22	10	1	1	1	1	4	111	1	01	1	1	1	1	1	1	1	1	1		1	1	1	1		8	1-	10



#### TABLE IV.—(a) PULMONARY TUBERCULOSIS.

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

				P	revio	us to	192	6.			1926.					1927					1928		
					Cl	ass T	ъ. В. г	olus.	S.	Cl	ass T	.в. р	olus.	· ·	Cla	ıss T.	В. р	lus.		Cla	ss T.	B. pl	us.
los	ndition at the time of t record made during ar to which the Re relates.	the		Class T.B. minus.	Group 1.	Group 2.	Group 3.	Total (Class T.B. plus).	Class T.B. minus.	Group 1.	Group 2.	Group 8.	Total (Class T. B. plus).	Class T.B. minus.	Group 1.	Group 2.	Group 3.	Total (Class T.B. plus).	Class T.B. Minus.	Group 1	Group 2	Group 3	Total (Class T.B. plus)
		ılts	M.	35	8	2	1	11	-	-	-	_	-	-	-	-	-	-	_	-	-	-	_
	Dischannel	Adults	F.	22	2	-	-	2	-	-	-	-	-	-	-	-	-	_	-	-	-	-	-
	Discharged as cured.	Chil-dren.	M.	18	2	-	-	2	-	-	-	-	-	-	-	-	-		-	-	-	-	_
		Chill-dren.	F.	13	2	-	-	2	-	-	-	-	-	-	-	-	_	-	_	-	-	-	_
		Adults	M.	19	5	5	-	10	-	-	-	-		-	-	-	-	-	-	_	_	_	_
VE.	Disease arrested.	Adı	F.	17	5	1	-	6	-	-	-	-	-	-	-	_	-	-	-	-	_	-	_
ALIVE.	Disease arrested.	Chil-dren.	M.	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	_	_	_	_
		d'e	F.	4	1	1		2	-	_	-	-	-	-	_	_	_		_	_	_	_	_
		Adults	M.	6	5	10	3	18	9	1	-	4	5	3	4	8	2	14	8	3	5	2	10
	Disease not	Adı	F.	7	1	10	1	12	7	3	1	3	7	5	_	7	1	8	5	2	6	4	12
	arrested.	Chil- dren.	M.	_	_	-	_	-	2	-	_	-	-	3	_	-	-	-	3	-	-	-	
		54	F.	1	-	1	-	1	-	_	_	-	-	-	-	_	-	_	2	-	-	-	_
CONDI	TION NOT ASCED DURING THE YEAR	RTAIN	ED	_	_	-	_	_	_	_	_	-	_	_	-	_	_	_	_	_	_	_	_
LOST	SIGHT OF OR OTHER FROM DISPENSARY	wise Regis	RE-	62	19	35	20	74	24	1	6	6	13	13	1	2	1	4	6	_	3	_	3
		Its	M.	17	11	35	107	153	2	_	2	3	5	2	-	-	9	9	1	-	1	4	5
	Dead.	Adults	F.	9	4	24	86	114	1	_	1	6	7	-	-	_	5	5	-	1	-	8	9
		il-	M.	-	-	1	3	4	-	-	1	1	2	-	-	-	-	-	-	-	-	-	-
		Chil-dren.	F.	2	-	-	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_
	Totals			237	65	125	225	415	45	5	11	23	39	26	5	17	18	40	25	6	15	18	39

SEIGHT YNANGERISTERS IN A SHEAT The same and the same of the same state of the s

#### TABLE IV .-- (b) NON-PULMONARY TUBERCULOSIS.

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

T			I	Pre	eviou	s to	1926.				1926.				1	927.				1	928.		
last	dition at the time of record made during r to which the Re relates.	the		Bones and Joints.	Abdominal.	Other Organs.	Peripheral Glands.	Total:	Bones and Joints.	Abdominal.	Other Organs.	Peripheral Glands.	Total.	Bones and Joints.	Abdominal.	Other Organs.	Peripheral Glands.	Total.	Bones and Joints	Abdominal	Other Organs	Peripheral Glands	Total
		lts	M.	5	-	-	14	19	-	-	-	-	-	-	-	-	_	_	-	-	_	-	_
		Adults	F.	3	-	1	12	16	_	-	-	-	-	-	-	-	-	-	-	_	_	_	_
	Discharged as cured.	n.	M.	10	8	1	50	69	-	_	_	-	-	-	-	-	_	_	_	_	_	_	_
		Chil-dren.	F.	6	8	5	41	60	-	-	-	_	_	-	_	_	_	_	_	_	_		_
		Adults	M.	4	-	1	-	5	-	-	-	_	_	-	1	1	1	3	_	_	_	-	_
VE.	Disease arrested.	Adı	F.	2	-	-	3	5	2	-	-	_	2	-	_	-	_	_	-	_			_
ALIVE.	Disease arrested.	Chil-dren.	M.	6	1		7	14	2	1	-	3	6	-	-	_	2	2	-	_	_	1	1 2
		Chil-dren.	F.	2	_	_	5	7	_	_	_	1	1	-	_	_	1	1	_	_		2	2
		Adults	M.	1	1	1	_	3	-	_	-	-	_	-	_	-	_	_	1	1	_	_	2
	Disease not	Adı	F.	1	_	2	_	3	-	-	-	2	2	3	-	-		3	_	_	1	1 4	5
	arrested.	Chil-dren.	M.	3	1	1	1	6	-	-	_	1	1	1	1	1	1	4	1	-	-	5	7
		g 4	F.	-	_	_	1	1	1	1	_	_	2	1	_	-	8	4	2			3	_
TRAN	SFERRED TO PULMONA	RY		1	1	1	6	9	_	_	_	_	-	-	_			-		_			
COND	DURING THE YEAR	RTAIN	NED	-	-	-	_	-	_	_	-	_	-	-	-	-	_	_	_	_	_	_	_
Lost	SIGHT OF OR OTHE	RWISE REG	E RE	21	6	1	23	51	1	1	5	4	11	-	_	-	-	-	-	_	-	_	_
		Its	M.	5	-	2	-	7	-	-	1		1	1	1	1-	_	2	-	-	-	-	-
		Adults	F.	3	2	3	1	9	-	-	1	-	1	1	-	-	-	1	-	-		-	-
	DEAD.	-10	M.	2	-	5	-	7	-		-	-	-	-	-	1	-	1	-	1	-		1
		Chil-	F.	2	6	2	3	13	-	-	1	_	1	-	- 1	-	=	1	-	-			-
	TOTALS			. 77	34	26	167	304	6	3	8	11	28	1	7 4	3	8	22	4	2	2   ]	13	20

## General Sanitary Work.

Only 23 cesspools are in existence in the Borough.

There are at the present time 84 privies in the Borough, the whole of which are outside the sewer area.

Some extension of sewerage capacity is becoming necessary.

#### GENERAL SANITARY WORK.

The following Table shows the nature and amount of work done during the year by the Highways Department under orders sent to it by the Health Department, and also the corresponding figures for the two preceding years:—

13.	1926	1927	1928
Houses drained or re-drained	512	 249	 162
House drains unstopped	495	 426	 502
Midden privies converted into W.C.'s	14	 12	 4
Bristol ejects and trough closets converted into fresh-water closets		 18	 7
Wet ashpits converted into dry	0	 0	 0
Sundry structural nuisances abated	221	 164	 134
Totals	1,267	 869	 809

The implication from these figures is that the Sanitary condition with respect to both house drains and structure has been raised to a highly satisfactory point.

The whole of the houses within the sewer area in the Borough now having been connected to the Public Sewer, and a greater amount of work carried out by private contractors accounts for much of the reduction. Further work, exceeding in the aggregate that referred to in the Table, has been completed under Private Contract.

#### ASHBINS.

Ashbins should be used for the temporary deposit of ashes and other similar refuse not subject to decomposition; hence the name "Ashbin." It is nevertheless the custom to pile into the ashbin everything which it is wanted to get rid of, and which, being out of sight, can also be out of mind.

It would be an advantage if people would endeavour to get rid of and destroy at the house more of the refuse than they do; in particular it would be better if worthless waste paper could be burnt at the house instead of being placed in the ashbin.

The disposal of this waste paper is becoming a definite problem in itself and will have to be taken seriously.

## Factory and Workshop Acts.

The following Report is made out in accordance with the requirements of the Home Office, to whom a copy of this Report has to be sent.

## FACTORIES, WORKSHOPS, WORKPLACES, AND HOMEWORK. 1.—INSPECTION.

INCLUDING INSPECTIONS MADE BY SANITARY INSPECTORS.

Premises.		Number of	
Fremises.	Inspections.	Written Notices.	Prosecutions.
FACTORIES(Including Factory Laundries).	156	3	None.
WORKSHOPS(Including Workshop Laundries).	467	7	,,
WORKPLACES	218	0	,,
Totals	841	10	,,

#### 2. DEFECTS FOUND.

	Number of Defects			N
Particulars.	Found.	Remedied.	Referred to H.M. Inspector.	Number of Prosecu- tions.
Nuisances under the Public Health Acts—*				
Want of Cleanliness	4	4	None.	None.
Want of Ventilation	_	_	,,	,,
Overcrowding		_	,,	,,,
Want of Drainage of Floors	-	-	. ,,	,,
Other Nuisances	5	5	,,	,,
insufficient unsuitable or	1	1	,,	,,
Sanitary Accommodations   defective not separate	1	1	,,	,,
for sexes	0	0	,,	,,
Offences under the Factory and Workshop Act				
Illegal occupation of Underground Bake- house (S. 101)	None.	None.	,,	,,
Breach of special Sanitary Requirements for Bakehouses (SS. 97 to 100)	7	7	,,	,,
Other Offences	None.	None.	"	- ,,
Total	18	18	,,	,,

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

Section 22 of the Public Health Acts Amendment Act, 1890, has been adopted in Southport. The standard of sufficiency and suitability of sanitary accommodation for persons employed in factories and workshops is in accordance with the Sanitary Accommodation Order of 4th February, 1903.

#### 4. REGISTERED WORKSHOPS.

Total number of workshops on Register......358

#### 5.—OTHER MATTERS.

Class.	Number.
Matters notified to H.M. Inspectors of Factories	
Failure to affix Abstract of the Factory and Workshop Act (S. 133)	_
Action taken in matters referred by H.M. Inspectors as re- mediable under the Public Health Acts, but not under the Factory Act (S. 5)  Notified by H.M. Inspector Reports (of action taken) sent to H.M. Inspector	7
Other Matters—Forms received from H.M. Inspector re New Workshops	15
Underground Bakehouses (S. 101)—	
Certificates granted during the year	
In use at the end of the year	7

#### GEO. C. BARNES,

Medical Officer of Health.

Note.—The Factory and Workshop Act, 1901 (s. 132), requires the Medical Officer of Health, in his Annual Report to the District Council to report specifically on the administration of the Act in workshops and workplaces, and to send a copy of his Annual Report, or so much of it as deals with this subject, to the Secretary of State (Home Office).

#### SMOKE ABATEMENT.

During the year smoke consuming apparatus has been fixed to five boilers and a sixth is being dealt with at the present time.

I refer to the table (*infra*) giving deposits from the atmosphere here and elsewhere, which completely demonstrates the remarkable relative clearness of the local atmosphere.

#### ABSTRACT OF WORK OF SANITARY INSPECTORS.

Total Visits	32,187
Complaints received from public	1,051
Inspections on complaints	1,051
Miscellaneous Inspections	7,641
Houses completely inspected—for in-going tenants, sickness, etc.	446
Re-inspections relating to sanitary defects under notice, etc	3,066

Routine Inspections of Special Premises :-	
Factories and Workshops, including Bakehouses	486
Common Lodging-houses	287
Stable Premises	38
Offensive Trades	154
Milk Shops	370
Smoke Observations (one hour each)	86
Sanitary Defects Remedied :—	
Houses re-drained, or drains amended, etc	395
Privies, etc., converted into W.C.'s	23
Miscellaneous Nuisances, etc., remedied	916
Total	14,909
	14,505
Notices Served for Abatement of Nuisances, etc. :	
Verbal	85
Preliminary	140
Statutory	233
Sewer complaints reported to Highway Department	57
Sanitary Certificates issued	11
Infectious Diseases :—	
Inquiries into Cases	2,008
Patients removed to Isolation Hospital	214
Houses disinfected	336
Bedding disinfected	476
Schools disinfected	3
Stables and Cowsheds disinfected	2
Notices to School Attendance Officers	2,122
Notices to Free Library	1,877
Notices to School Medical Officer	1,296
Consumption :—	
Cases notified	114
Pulmonary	84
Non-Pulmonary	80
Number of Visits to Tuberculosis Patients	1,664
Patients' Visits to Dispensary	1,116
Examined by Tuberculosis Officer	654
Enquiries—Contacts	3,801
Contacts examined by Tuberculosis Officer	68

#### ABATEMENT OF NUISANCES.

Only 3 per cent. of the total Nuisances reported remained wholly or partly unabated at the end of the year. Viewed in the light of the present prevailing difficulties, this is to be considered extremely satisfactory.

#### REPORT ON ABATEMENT OF NUISANCES FOR THE YEAR.

It represents	1,357
Cases of which	
The remaining number 37 are classified as follows:-	
Partially complied with	в
Deferred for further negotiation	14
Work in Progress	1

#### SANITARY CERTIFICATES.

8

5

Householders are strongly advised to have the Drains and Sanitary Fitments of their dwellings inspected and tested trienially. These occasional examinations act as an insurance against sickness from environmental defects.

# HOUSING ACT, 1909. HOUSING (INSPECTION OF DISTRICT) REGULATIONS, 1910. ARTICLE V.

19	923	1924	1925	1926	1927	1928
Houses completely inspected for various causes	664	553	653	906	839	446
Reports made under Housing Acts, 1909 and 1919	45	28	16	14	0	0
Notices served under the said Housing Acts	41	33	15	4	0	0
Houses reported under Section 11 of 1925 Act for closing	1	0	6	7	6	2
Houses considered to be in a state so dangerous or injurious to health as to be unfit for human habitation	1	0	6	7	6	2
		0				170
Closing Orders made by Local Authority	0	0	6	7	6	2
Dwelling-houses closed after Closing Orders	0	0	3	7	4	2
Houses reported under Section 15 and Section 28 for repairs necessary to put such houses into a fit state for human						
habitation	45	28	16	14	0	0
Notices served under Sections 15 and 28	41	33	15	4	0	0

	1923	1924	1925	1926	1927	1928
Orders under Sections 15 and 28 complied with by Owners		15				0
Orders carried out by Local Authority under the powers of the Act		0	0	0	0	0
Orders not complied with under Section 17	1	0	0	0	0	0
Orders not complied with under Section 15 and Section 28	17	13	10	4	0	0
New Houses Erected and Certified	70	309	630	730	504	300
Houses closed on Owners' initiative	0	.0	0	0	0	0

Most of the work during the year has been carried out under The Public Health Acts.

#### SHOPS INSPECTION.

Much of the Inspectors' time is occupied in patrolling, and in the greater part of this no entrance that can be included in the count of visits set out in the Table below is involved. The Table includes evening visits.

Total Visits	1,879
Breaches of Shops' Acts Discovered :-	
Trading during prohibited hours	15
Assistants not getting full time for meals	
Assistants not getting Weekly Half-holiday	-
No Notice in Shop re Weekly Half-holiday	44
No Notice in Shop re Closing Day	45
Shop Seats—Absence of	1
No Notice in Shop re Mixed Business	34
Action taken as to offences:-	
Warned verbally	138
Warned by letter	1
Reported to Local Authority	-
Prosecutions	
Night Patrol—Hours	50

## THE REMOVAL OF HOUSEHOLD REFUSE.

	1924	1925	1926	1927	1928
Estimated Amount of Refuse removed from Borough Loads	13,952	14,128	13,731	13,588	13,670
Number of Ashpits replaced by Ashbins during the year	91	42	141	55	18

It should be noted that a "load" now signifies a much heavier weight than formerly, owing to the carrying capacity of the wagons having been increased.

#### RATS AND MICE (DESTRUCTION) ACT, 1919.

1924	Notices	served		 														Nil
1925	,,	,,		 														4
1926		,,																
1927	,,	,,																
1928																		

We have no difficulty in getting any measures we suggest taken. In fact the occupiers of premises show as much anxiety to get rid of the rodents as we do.

#### NATIONAL RAT WEEK 1928.

During the year the Corporation have co-operated with the owners of several large business premises in the town in an endeavour to get rid of these, and are satisfied that much good has been done in this direction. We have also given advice and prescriptions to owners and occupiers and have found a general willingness on their part to carry out our suggestions.

# Maternity and Child Welfare.

The Health Committee has adopted the scale of fees for doctors called by a Midwife in emergency under the Midwives' Act where the family is unable to pay.

There are five Welfare Centres: at Hampton Road, High Park, Liverpool Road, Crossens, and Hoghton Street. There is a Central Voluntary Committee with a separate Sub-Committee for each Centre. The Health Visitors attend on all occasions.

The Health Committee have arranged a system of co-ordination with St. Katherine's Home and the Southport and Birkdale Day Nursery.

In virtue of this arrangement the Corporation were to pay the Institutions, as a subsidy, 25 per cent. of their net expenditure for each financial year; the net expenditure being reckoned as their gross approved expenditure less their earned income. This is in addition to a 50 per cent. grant paid by the Ministry of Health. The amount of this grant is subject to modification in the ensuing financial year.

The following Table gives the causes for which the Midwives required medical assistance during the year:—

Abortion			
Uterine inertia		(Abortion	1
Uterine inertia		Ruptured perineum	44
Chest trouble		Uterine inertia	18
Collapse			
Pyrexia			
Mother       Hæmorrhage       2         Adherent Placenta       3         Breech presentation       1         Mastitis       1         Anæsthetie       1         Face to Pubes       1         Obstructed labour       2         Difficult Micturition       3         Pain in right side       1         Swollen Legs       2         Occipital Posterior       2         B.B.A       1         Megrim       1         94         Child       Hare Lip and Cleft Palate       1         Inflammation of Eyes       6         Cough       1         Dangerous Feebleness       2         Convulsions       3         Not definitely specified       1			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Mothen	The state of the s	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Mother		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		2211000110110	
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$\begin{bmatrix} B.B.A. & & & & 1\\ Megrim & & & & 1 \\ & & & & & \\ & & & & & \\ & & & &$			2
		Occipital Posterior	
$ \begin{array}{c} & & & & & & & & \\ & & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & & $		B.B.A	
$\begin{array}{c} \text{Hare Lip and Cleft Palate} & 1 \\ \text{Premature} & 6 \\ \text{Inflammation of Eyes} & 6 \\ \text{Cough} & 1 \\ \text{Dangerous Feebleness} & 2 \\ \text{Convulsions} & 3 \\ \text{Not definitely specified} & 1 \\ \end{array}$		Megrim	1
$\begin{array}{c} \text{Hare Lip and Cleft Palate} & 1 \\ \text{Premature} & 6 \\ \text{Inflammation of Eyes} & 6 \\ \text{Cough} & 1 \\ \text{Dangerous Feebleness} & 2 \\ \text{Convulsions} & 3 \\ \text{Not definitely specified} & 1 \\ \end{array}$			-
$\begin{array}{c} \text{Rate Lip and Clear Falace} \\ \text{Premature} & 6 \\ \text{Inflammation of Eyes} & 6 \\ \text{Cough} & 1 \\ \text{Dangerous Feebleness} & 2 \\ \text{Convulsions} & 3 \\ \text{Not definitely specified} & 1 \\ \end{array}$			94
$\begin{array}{c} \text{Rate Lip and Clear Falace} \\ \text{Premature} & 6 \\ \text{Inflammation of Eyes} & 6 \\ \text{Cough} & 1 \\ \text{Dangerous Feebleness} & 2 \\ \text{Convulsions} & 3 \\ \text{Not definitely specified} & 1 \\ \end{array}$			-
$\begin{array}{c} \text{Rate Lip and Clear Falace} \\ \text{Premature} & 6 \\ \text{Inflammation of Eyes} & 6 \\ \text{Cough} & 1 \\ \text{Dangerous Feebleness} & 2 \\ \text{Convulsions} & 3 \\ \text{Not definitely specified} & 1 \\ \end{array}$			
$\begin{array}{c} \text{Child} & \begin{array}{c} \text{Premature} & & & 6 \\ \text{Inflammation of Eyes} & & 6 \\ \text{Cough} & & & 1 \\ \text{Dangerous Feebleness} & & 2 \\ \text{Convulsions} & & & 3 \\ \text{Not definitely specified} & & & 1 \\ \end{array}$		CHare Lip and Cleft Palate	1
$ \begin{array}{c} \text{Child} & \begin{cases} \text{Inflammation of Eyes} & & & 6 \\ \text{Cough} & & & 1 \\ \text{Dangerous Feebleness} & & & 2 \\ \text{Convulsions} & & & & 3 \\ \text{Not definitely specified} & & & 1 \end{cases} $			6
$ \begin{array}{c} \text{Child} & \left\{     \begin{array}{c} \text{Cough} & \dots & & 1 \\ \text{Dangerous Feebleness} & & 2 \\ \text{Convulsions} & & & 3 \\ \text{Not definitely specified} & & & 1 \\ \end{array} \right. $			6
Dangerous Feebleness         2           Convulsions         3           Not definitely specified         1	Child		1
Convulsions	Cilita		2
Not definitely specified 1			
(Not definitely specified		Net definitely specified	
00		(Not definitely specified	_
20			20

#### MIDWIVES' ACTS, 1902 & 1928.

The number of Midwives in practice at the end of the year was 24, 22 of whom hold the Certificate of the Central Midwives Board. They are visited regularly by the Inspector of Midwives about once a quarter when their Registers, Midwives' Bag, and Appliances are examined. During the year 753 Births were notified to the Local Supervising Authority by the Midwives, medical help being obtained for 114 cases.

Stillbirths (Corrected)	
Number notified by Medical Practitioners 15	
,, ,, Midwives 22	
Number of Births notified by Medical Practitioners	294
,, ,, Midwives	
Number of Births notified (corrected)	1,007
INFANTILE CARE.	
Births notified to M.O.H.: Legitimate	943
,, ,, ,, Illegitimate	64
Births not notified	5
,, , (1927)	9
Infants visited at home	839
,, stillborn 40	
,, who died within 24 hours of birth 18	
,, breast fed 635	
,, partly breast fed 22	
,, artificially fed	
,, removed	
Ante-natal cases: 1st visits	166
Re-visits	498
Post-natal cases: 1st visits	807
Re-visits	3,760
Infants: 1st visits	802
Re-visits	
Children seen at home—1 to 5 years	
Infants seen at home—Sore eyes	31
Deaths of infants under 1 year of age :-	
Breast fed	
Artificially fed	
Died under 24 hours	
Too good to visit 6	
69	

## MATERNITY WARD, CURZON ROAD, SOUTHPORT.

21 BEDS.

(1)	Number of cases in the Home on January 1st, 1928	9
(2)	Number of cases admitted during 1928	307
(3)	Average duration of stay	14 days.
(4)	No. of cases delivered by  (a) Midwives  (b) Doctors	248 59
(5)	No. of cases in which medical assistance was sought by the Midwife with reasons for requiring assistance.  (a) Ante-Natal.  (b) during Labour.  (c) after Labour (state separately number of ruptured perineums which required suture)  (d) for infant.	(a) Every case seen by Doctor at Ante-Natal Clinic with the exception of three emergencies. (b) 13 cases.  1. V.D.H. of mother. 2. Occipito-posterior. 1. Prolapsed cord. 2. Contracted outlet. 1. Extended legs and arms. 1. Position not diagnosed (Mongolian baby). 1. Transverse position with prolapsed arm (emergency). 4. Uterine inertia (2nd stage). (c) No case apart from 14 ruptured Perineums (50% of the cases have the slightest lacerations, whether external or internal, repaired). (d) 4 cases. 1. Atelectasis. 2. Dangerous feebleness. 1. Hare-lip and cleft palate.
(6)	No. of cases notified as  (a) puerperal fever and (b) ,, pyrexia  (i.e. rise of temperature to 100.  4° F. for 24 hours or its recurrence within that period) with result of treatment in each case.	Nil. Ten. All recovered.
(7)	No of cases of Pemphigus Neonatorum	Two.
(8)	No. of cases notified as Ophthal- mia Neonatorum with result of treatment in each case	One. Cured.

## MATERNITY WARD, CURZON ROAD, SOUTHPORT .- cont.

21 BEDS.

the state of the s		
(9) No. of cases of "inflamer the eyes," however slight  (10) No. of infants not entirel fed while in the Institut reasons why they were not fed.	y breast- tion with 13.	<ol> <li>Pernicious Anæmia.</li> <li>General Debility.</li> <li>V.D.H. of mother.</li> <li>Babies being put out to nurse.</li> <li>Refusal of mother to feed.</li> <li>Alternate feeds—twins and</li> </ol>
(11) No. of maternal deat	17	two of triplets (other died).
(12) No. of feetal deaths (a) stillborn, and (b) within 10 days of b their causes—and the r the post mortem examin obtainable.	oirth and results of mation if	<ol> <li>Placenta Prævia (premature).</li> <li>Albuminuria (premature).</li> <li>Hare-lip and cleft palate (Atelectasis).</li> <li>Twin. Premature.</li> <li>st-mortem examinations were</li> </ol>

# REPORT ON THE MATERNITY HOSPITAL AND ANTE-NATAL CLINIC FROM JANUARY 1st to DECEMBER 31st, 1928.

During this period 307 cases were confined and there were 1,700 attendances at the Ante-Natal Clinic.

Eleven private patients were sent in and attended to by their own Doctor and these are not included in this Report.

Fifteen emergency cases were sent in by Doctors, all of which I saw at once and attended to personally.

1. A case that had been in labour for three days.

On examination the presentation was found to be occipito-posterior. The position was rectified, forceps applied, and a live baby delivered.

2. A case of Albuminuria.

Patient was treated in the Ante-Natal department, the albuminuria was corrected, and she was normally confined of a live baby.

3. A case that had been in labour for two days.

The baby's head was not engaged in the pelvis. It could however be pushed in, so an injection of pituitary was given; and a normal delivery and a live baby resulted.

4. A case where baby was reported dead in Utero.

Patient had a normal delivery and live baby.

5. Case of ante-partum hæmorrhage.

The cause was lateral placenta prævia. There was a normal delivery and live baby.

6 and 7 were normal deliveries.

- 8. Case of threatened abortion which aborted.
- 9. Case of Hydramnios.

The waters were drained away very slowly and a Mongolian stillborn baby was delivered.

10. Case of arm presentation.

Version was done and baby delivered by breach—white asphyxiastillborn.

11. Case of ante-partum hæmorrhage.

Cause was marginal placenta prævia. Podalic version was done and patient left to deliver herself normally of a live baby.

12. Case of contracted pelvis.

It was possible to engage the head so forceps were applied and a live baby delivered.

13. Case of Eclampsia at the sixth month of pregnancy.

She was admitted at 11 p.m. on 7.9.28, having had two fits before admission. She had three fits after admission. She responded to treatment and was discharged on 24.9.28 without symptoms and the urine clear. She was re-admitted in labour on 8.10.28 and was delivered of a macerated foetus.

14. Case was normal.

15. Case of delayed second stage of labour.

Pituitrin was given, live baby was secured; but placenta was adherent and had to be manually removed.

Regarding our own cases, the hospital is run more and more from the ante-natal department.

Albuminurias. The urine is examined for albumin in every case on the patient's first visit and on all subsequent visits. If the urine is found to contain albumin and there are no urgent symptoms, the patient is warned of the danger, instructed about diet, clothing, exercise and rest, and the action of the excretory organs. She is allowed to go home if her home and other conditions are suitable, but she must report at the clinic the following week. If in a week's time there has been no improvement she is recommended to enter the ante-natal department for treatment. On the strict treatment carried out there, many patients get quite clear of the albuminuria and are allowed out again to complete their term of pregnancy at home, being given special instructions and a request to attend the ante-natal clinic each week till confinement. The most urgent symptoms usually appear during the last three weeks of pregnancy, and in those cases labour is induced by the "stomach-tube" method.

No case of Eclampsia has occurred in any patient who has attended the ante-natal clinic.

Malpresentations. The presentations are diagnosed each week at the antenatal clinic and entered on the patient's chart. If a slight correction is necessary it is done then, but usually the patient is told to report at the antenatal department one evening when I am to be there. Practically every woman who has attended the ante-natal clinic commences labour with her baby as a vertex presentation in an occipito-anterior position. We had only one case of occipito-posterior presentation, and in this case the patient allowed labour to advance too far before reporting herself. The position could not be corrected or the baby delivered, and craniotomy had to be performed in the interests of the mother.

There were two cases of breach presentation, which, after repeated attempts could not be turned. One was a multipara. The baby was delivered by the Sister as a breach and weighed 8 lbs.; the other was a primipara and was delivered by a staff nurse. Both babies were alive and did well.

Misfits.

During the later weeks of pregnancy especial care is taken at the antenatal clinic to make sure that the child's head will enter the maternal pelvis. In doubtful cases if the head can be pushed in, the presumption is that the patient will be all right for another two weeks. She is told to go home and have a large dose of castor oil. This very often has the desired effect; but if not she reports at the clinic the following week when she is admitted to the ante-natal department. If conditions are suitable quinine and pituitrin are given to encourage pains; and if that is unsuccessful labour is induced. Operative interference is avoided as much as possible and during the fortnight of grace all possible means are taken to bring on labour without manual interference. In our hands here the "stomach-tube" method has never failed to bring on labour within 48 hours.

If the disproportion is apparent before the 36th week of pregnancy the patient is advised to go her full time and have cæsarean section at term. We had three such cases in the year, two of them coming from St. Katherine's Home, but, in Southport, gross pelvic deformities are rare.

Repair.

This in my opinion is a signally important matter. I have not kept statistics, but I should say roughly that one in every five or six cases gets some lacerations during parturition. It is my implicit instruction to the Sister that every case is to be carefully examined for lacerations after her labour is completed, and these are regularly repaired by me within a few hours of delivery. They are in my opinion of much more grave importance than perineal tears although those are also attended to.

I attach great importance to them for two reasons—(1) The prior reason is that a raw surface, after the blood with its cleansing leucocytes has ceased to pass freely over it, is a trap for infection and absorption. If the edges are approximated by suture and a eusol gauze pack inserted in the vagina the chances of septic absorption are reduced to a minimum; and (2) The ultimate reason is that if these lacerations are not repaired but allowed to granulate, etc., the contour of the vagina is altered, prolapse of the womb is encouraged and a colporrhaphy operation later on is a most probable sequel.

#### Puerperium.

Before any patient leaves Hospital after her confinement she is again examined by me to see principally—

- (1) If the lacerations have healed well.
- (2) Is there any subinvolution.
- (3) If there is any deviation of the uterus.

If any deviation is present a Smith-Hodge pessary is inserted and the patient discharged and told to report again within a month for removal of the pessary. If the pessary is removed she is told to report again in two weeks to see that the position of the womb is maintained, and again a month later as involution of the uterus is not yet complete and a relapse might still occur.

#### Observations.

In this work I realize how very dependent I am on my Staff and particularly on the Sister in charge. If the Eusol packs are not regularly changed and the patients kept surgically clean there is a great danger of toxic absorption and morbidity.

I am glad to take this opportunity of paying a very high tribute to the Sister and her staff for their exceptional devotion to their work and their meticulous attention to detail in the after-care of their patients.

Since Sister Graham took over duties in February, 1927, we have had 761 cases with

No maternal death,

No case of white leg,

No case of puerperal morbidity,

that could be associated in any way with infection of the parturient canal.

This I regard as a subject for legitimate pride.

(Signed) A. S. GARDEN, M.D., S.M., Obstetrician in Charge.

#### WELFARE CENTRES.

Dr. Rye, through illness, has been unable to continue her invaluable services as Honorary Medical Officer to the Hampton Road and Liverpool Road Centres. The Deputy and Assistant Medical Officers now attend all Welfare Centres.

We note some tendency on the part of the people who most require the advantages of the Centres to fail to attend; and this is not easy to remedy.

			AT	TEND	ANCES				TRE	ATED.	
Name of Centre.		sing hers.		ctant hers.	Infa	ints.	Children over 1	Nursing	Expect-		Chile
	1st visits.	Re- visits.	1st visits.	Re- visits.	1st visits.	Re- visits.	and under 5.	Mothers.	Mothers.	Infants.	und
Hampton Road	114	1652	3	51	116	1006	866	233	48	1089	8
High Park	187	2620	33	109	187	1949	939	638	97	2131	9
Liverpool Road	100	2437	23	90	97	1787	1522	450	110	1834	15
Crossens	68	1216	13	40	63	738	846	165	41	799	8
Hoghton Street	130	2142	13	25	120	1625	914	184	26	1744	9
Totals	594	10067	85	315	583	7055	5087	1670	322	7597	50

#### ATTENDANCES.

	Nursing	Mothers.	Expectan	Mothers.	Infa	Infants.					
	1st visit.	Re-visit.	1st visit.	Re-visit.	1st visit.	Re-visit.	over 1 and under 5 years.				
1924	384	6617	35	95	384	4407	2876				
1925	479	8416	58	191	472	5651	3607				
926	586	9511	60	248	599	6742	4150				
927	629	10316	70	246	644	7539	4934				
928	594	10067	85	315	583	7055	5087				

1928 ... Total attendances ... ... ... ... 23,786

## ANTE-NATAL CLINIC AT 2, CHURCH STREET.

This was open in August. Notices were placed in the Welfare Centres pointing out to the Mothers that advice on their health could be obtained on these occasions. This resulted in Gynæcological cases attending in addition to the ante-natal ones, but it had the advantage of advertising the Clinic. The former cases were seen and the necessary treatment advised or the patient referred to the appropriate Hospital.

With regard to the ante-natal cases, the midwives have either brought or sent over half the number; this is very satisfactory. There have been two cases of contracted pelvis which Dr. Garden very kindly took charge of; three cases of albuminuria which cleared up, and two mothers who were markedly under-nourished were given assistance. If the income is below the scale, a pint of milk is granted daily after six months of pregnancy.

Ist Visits— Re-Visits.

Gynæcological. Ante-natal.

12 30 40

There have been no Maternal deaths among those who have attended the Clinic.

An increase in the cases attending is confidently expected.

#### MATERNITY HOSPITAL.

Excellent work has been done in the present Hospital since it was opened in 1921. The Building, which was of a temporary character, will shortly be replaced with one thoroughly up to date through the munificence of Miss Hartley.

#### ST. KATHERINE'S HOME, 5, LATHOM ROAD.

Total number of admissions during 1928 :-	
Maternity Cases	26
Rescue Cases	_
Night Cases	18
Preventive	3
	47
	47
Total number of discharges during 1928 :-	
Maternity Cases	22
To the Union	None
To V.D. Ward	2
Rescue Cases to Mental Homes	None
Rescue Cases to other Homes	,,
Rescue Cases to Domestic Service	,,
Night Cases	21
	43
Average length of time kept in Home27 wee	
Visits paid by former Inmates	

Number of Babies in St. Katherine's Home in 1928:—	
Babies admitted to Home	2
Babies born in Home	22
	-
	24
N D 11 1000	-
Number Discharged from Home during 1928:—	
Discharged with the Mothers	11
To Foster-mothers	4
To another Home	4
To V.D. Ward	1
To The Union	_
	_
	20
	-

## SOUTHPORT AND BIRKDALE DAY NURSERY, DUKE STREET.

Individual Children	admitted	85
Attendance (days).		2,597

### OPHTHALMIA NEONATORUM.

	Cases.		Vision	Vision	Total		
Notified.	Tre	eated.	Vision unimpaired.		Total Blindness.	Deaths.	
3	At Home.	In Hospital. Nil.	3	Nil.	Nil.	Nil.	

N.B.—All out-door Midwives are instructed to use Silver Nitrate 1% immediately after birth.

# NOTIFICATION OF PUERPERAL FEVER AND PUERPERAL PYREXIA REGULATIONS, 1926.

Notifications of Puerperal Pyrexia		6
Removed to Hospital	3	
Nursed at home	3	
	-	6
		-

All the cases completely recovered.

#### SUPPLEMENTARY HEALTH VISITING.

Special Enquiries—Medical Officer of Health	157
Incidental Calls	495
Visits to Infectious Diseases	103
Visits to houses found closed	
Visits to Midwives	38
(See also Report of School Medical Officer.	

# GENERAL ARRANGEMENTS MADE FOR ATTENDING TO THE HEALTH OF EXPECTANT AND NURSING MOTHERS AND OF CHILDREN UNDER FIVE YEARS OF AGE.

The Notification of Births Act, 1907 (adopted by the Local Authority 1908), requires all Medical Practitioners and Midwives to notify the Medical Officer of Health within 36 hours after the birth has taken place.

This Act is invaluable, as visits can be paid to infants directly after birth if necessary; but usually they are not made until after the tenth day, so as not to encroach upon the Midwife's province. This works very well, and the District Midwives afford assistance in sending mothers to the Centres.

When the Health Visitor calls, not only is advice given re the Infant, but all children in the house are seen, and a friendly word given. The general cleanliness of the home, sobriety and occupation of the parents and causes of deaths of other children are noted—the last often indicating the advice needed.

The Welfare Centres, five in number, are held in the most populous parts of Southport.

Hampton Road Mission Hall on Thursday at 2.30 p.m. (Opened 1914). 92, Poulton Road, High Park, on Wednesday at 2.30. (Opened 1918). Wesleyan Schools, Liverpool Road, on Tuesday at 2.30. (Opened 1919). Rufford Road, Crossens, on Wednesday at 2.30. (Opened 1921.) Baptist Schools, Hoghton Street, on Tuesday at 2.30. (Opened on December 7th 1926).

All mothers with babies and expectant mothers are heartily welcomed. Tea and biscuits are provided for which a charge of 1d. is made, and biscuits and milk for the children 2d.

Much good and valuable work is being done at the Centres. The voluntary workers undertake all duties except treatment, which is done by the Health Visitors. Children suffering from defective vision, external eye disease, skin trouble, marasmus, rickets, etc., or any other complaint are referred to a Private Doctor, or, if unable to pay, are sent to an appropriate clinic.

A sewing class, which is well attended, is held weekly at High Park. The voluntary helpers look after the children while the mothers devote their time to dressmaking and knitting.

The principal aims of these Centres are the supervision of the health of the mother during the ante-natal and post-natal periods, and education in hygiene and mothercraft. At every session a qualified Medical Practitioner is in attendance. During the year, 1928, mothers and children under five years of age, made 11,061 and 12,725 attendances respectively at the various Centres.

The Nursing Homes Registration Act, 1927, came into operation on July 1st. This Act repeals part II. of the Midwives and Maternity Homes Act.

Compensation may be made to Midwives under part I, section 2 (I) of the Midwives and Maternity Homes Act 1926 "which provides that where a midwife has been suspended from practice in order to prevent the spread of infection, she shall, if she was not herself in default, be entitled to recover from the Local Sanitary Authority such amount by way of compensation from loss of practice as is reasonable in the circumstances of the case." The basis of compensation should be calculated on the loss of income actually sustained by the midwife, and the payments should not exceed the reasonable amounts paid by her to other Midwives whom she has had to employ to attend such patients confined during her period of suspension.

DENTAL MATERNITY CENTRE, 1928.

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Dentı	Ft	u.	01	64	-	01	03	1	4	1	00	4	00	63	26
Finished Dentures.	Partial.	r.	1	1	1	-	1	1	4	1	00	01	-	1	13
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·s	gaillia		6	-	13	20	18	1-	9	1	10	25	7	8	119
tic.	Gen.		1	1	-	1	01	1	7	1	4	1	1	64	13
Anæsthetic.	Loc. N.O Gen		1	1	1	1	1	1	1	1	1	1	1	1	1
Ana	Loc.		-	67	15	28	37	4	28	12	21	20	21	15	219
·suo	ітэвттх	E	20	55	43	233	7.9	22	65	12	7.9	48	4	57	499
ses.	ем Сая	N	4	20	4	9	4	00	64	00	4	16	50	1	97
ber ted.	.stisi	He-v	27	255	53	31	2	26	55	6	55	65	58	57	478
Number Treated.	.stisi	v JaI	17	6	13	6	9	00	4	10	21	16	10	1	119
Appointments.		47	36	49	38	51	39	51	13	09	70	64	55		
	Date.		Jan	Feb	March	April	May	June	July	August	Sept	Oct	Nov	Dec	Totals 573

## SUMMARY OF VARIOUS CLINICS.

Days and Times of Attendances.

		,				
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Infant Welfare Centres— Liverpool Road High Park Crossens Hampton Road Hoghton Street		2-30	2-30 2-30	2-30	2-80	
Sewing Classes— High Park				2-30		/
Ante-Natal Clinic— 2, Church Street Maternity Ward, Curzon Road		10-0			11-0	
Maternity Dental Clinic		2 p.m.		Territory.	2 p.m.	
School Clinic, 2, Church St. Minor Ailment Clinic Ophthalmic Clinic Skin Clinic Tonsil & Adenoid Clinic Artificial Sunlight Treat—	2-30			2-30 9-30 (when necessary)	2-30	
ment Clinic	9-30	2 30	9-30	10-0	9-30 2-30	
Treatment Clinic Dental Clinic  Tuberculosis Dispensary	9-30 9-30 and 2 p.m.	9-30 9-30 and 2 p.m. 2-0	9-30 9-30 and 2 p.m.	9-30 9-30 and 2 p.m.	9–30 9–30 and 2 p.m.	9-30
Venereal Diseases—						
Southport Infirmary— Clinic—Men	5-80	2-0		5-80		
Treatment Clinic - Men	8-30-10 a.m.	8-30-10 a.m.	8-30-10 a.m.	8-30-10 a.m.	8-30-10 a.m.	8-30-10 a.m.
,, Women	6-8 p.m. 10-12 a.m.	6–8 p.m. 10–12 a.m.	6-8 p.m. 10-12 a.m.	6–8 p.m. 10–12 a.m.	6-8 p.m. 10-12 a.m.	6-8 p.m. 10-12 a.m.
,, ,,	2–4 p.m.	6-8 p.m.	2–8 p.m.	2-4 p.m.	2–8 p.m.	2-8 p.m.

# Southport Blind Welfare Committee.

1.	The arrangements made with the Manchester and Salford Blind A Society have been continued during the year.	lid
2.	0 P	02
	REMOVED FROM THE REGISTER	
2 le	les 2, deceased, aged 82, 79	6
	REGISTERED DURING THE YEAR-	
	Males, age 67, 12, 9	6
	On the Register 31st December, 1928—	
	Under 15 16-21 22-49 50-69 70 & over	
MA	LES 9 2 7 22 9 MALES 5 1 12 23 12	49 53
1 12	MALES 3 1 12 25 12	-
		02
	Children in "Sunshine House"	31
		56 79 93 11
3.	RESIDENT IN INSTITUTIONS FOR THE BLIND—	
	Males. Female	es.
	Hardman Street, Liverpool 2 age 31, 16 1 age Royal Normal College, London	
	Liverpool	10
4.	GRANTS.	
	Grants have been given to the amount of £5 Persons receiving weekly grant	26 7/-

#### INSTRUCTIONAL CLASSES, ETC.

Classes are held every Monday and Wednesday afternoon from 1-30 to 4-30 p.m. at the Technical Schools; average attendance, 7.

Instruction is given by Miss Mace and the Home Teacher, in embossed reading and writing, rush and cane-chair seating, basketry, hand-knitting, etc.

Instruction in the above subjects is given to the blind in their own homes when they are unable to attend the classes.

#### HOME WORKERS.

 Number of Home Workers
 ...
 ...
 ...
 ...
 ...
 ...
 5

 Average amount of weekly augmentation
 ...
 ...
 ...
 ...
 9/3

One additional Home Worker has been approved by the Ministry of Health.

It is to be hoped that it will be possible to keep the Home Workers more fully occupied in the future.

#### PASTIME.

To assist the Home Workers and those engaged in pastime occupations in the disposal of their work, a Sale of Work was held.

The receipts from the sales, etc., exceeded £49.

A permanent sub-committee has been appointed to develop this important branch.

#### SOCIAL EVENTS.

September 5th, 1928, picnic to Morecambe—Blind and guides present, 55. December 12th, 1928, Christmas party—Blind and guides present, 80. Social gatherings held fortnightly in the Schoolroom, Portland Street, average attendance, 50.

The Picnic to Morecambe was organized by members of the Southport Branch of the Rotary Club and Toc H.

Our thanks are due to:—The Rotary Club; Toc H., for keeping the Wireless sets in order, etc.; the Advertising and Band Committee for free seating in the Municipal Gardens; Dr. de Courcy and the Infirmary Staff; the Students at the Technical School for acting as guides; the Manchester Wireless for the Blind Fund; and others.

Miss Mace has continued her valuable services.

# Supervision of Food Supplies.

VISITS TO :-	
Public Slaughter-houses	515
Private Slaughter-houses	
Butchers' Shops	
Fish and Poultry Shops	
Other Shops	
Restaurant or Hotel Kitchens (workplaces)	
Ice-cream Workshops	
Ice-cream Stalls	85
Potted Meat and Fish Works	127
Piggeries	488
Cowsheds	165
Milk Farms outside the Borough	4
Bacteriological Examination of Milk	106
Private Premises where Pigs are killed	879
	13,956
UNSOUND FOOD DESTROYED.	
Under Magistrate's Order :	
Nil.	
By Consent of Owner or Consignee :-	
Beasts' Carcases and all Organs	49
Beasts' Livers	86
Beasts' Lungs (sets)	157
Beef (lbs.)	
Beasts' Hearts	5
Beasts' Head	
Pigs' Livers	81

Pigs' Carcases and all Organs	19
Pigs' Lungs (sets)	74
Pork (lbs.)	547
Sheeps' Carcases and all Organs	4
Rabbits	4
Lambs' Carcases and all Organs	6
Rough Shrimps (quarts)	140
Beasts' Stomachs	8
Beasts' Intestines	5
Pigs' Heads	4
Mutton (lbs.)	56
Beasts' Mesenteric Fat	72
Sheep's Liver	18
Beasts' Spleens	13
Beasts' Skirts	33
Pigs' Hearts	21
Lambs' Livers	6
Beasts' Kidneys	2
Unsweetened Condensed Milk (Tins)	371
Chickens	24
Grapes (lbs.)	171
Pork Sausages (lbs.)	5
Pigs' Stomachs	2
Loganherries (Tins)	34

## FOODS AND DRUGS ACTS.

## SUMMARY OF SAMPLES SUBMITTED FOR ANALYSIS.

Adulterated   Adulteraterate   Adulteraterateraterateraterateraterateratera	I	nforma	l Samp	les				Formal	Sample	es	
The content of the			Adult	terated				Adult	erated		18
2	Number Taken	Number Genuine	Materially	Trivially or doubtful	Nature of Sample.	Number Taken	Number Genuine	Materially	Trivially or doubtful	Vendors Cautioned	Prosecution
1	-	-		1000							
1	2			1 11	Conce						
1	1				Liquorice Powder						
1	1		_					-			
2					Epsom Salts			-			
2	9			1 1111	Calcined Magnesia						
2	ī				Black Current Jam		The second second				
1	2	2	-	1	Strawberry Jam		2				
Raspberry Jam				-	Condensed Milk		-		-		-
1											
1         1         1         -					Cheese						
1					Lime Juice Cordial				1000		
Sponge Cake	1		-	-	Fresh Cream	5		-	1	1	
Sponge Cake	2				Pork Sausage						
Sponge Cake	1				Drown Broad		100				
1         1         —         Marmalade           —         <					Sponge Cake						
Camphorated Oil	1			-	Marmalade	1	1	-	-	1	
1         1         —			-	-	Camphorated Oil	-	-	-			
2         2         —         Honey         —         2           1         1         —         Gregory Powder         —         —         —         2           1         1         —									The state of the s		
1         1         1         —         Gregory Powder         —											
1         1         —								2	_	_	
Total Control Contro	1		-	-	Gregory Powder	_	100000000000000000000000000000000000000	-		-	
1       1       —       —       Beef Suet       —					Lard				-		
1         1         —         Black Current and Apple Jelly         —					Whiskey						
2       2       2       2       -			-		Black Current and						-
1       1       —       —       Beef Sausage	2	2						_	-	-	-
2       2       —       —       Damson Jam	1	1	-		Beef Sausage	2	2	-		-	-
1       1       —       —       Potted Shrimps       —			-				-	-		1	1
1         1         —	2			995			7				
-         -         -         Extract of Meat         1         -         1         -         -         1         1         -									The same of		
1       1       —       —       Raspberry Vinegar       —	_	-			Extract of Meat		50-10	1	-	-	1
1       1       —			-	-	Raspberry Vinegar		-				
1       1       —											
1       1       —											
1       1       —       —       Malt & Cod Liver Oil.       —			-		Liquid Cascara		-				
1       1       —       —       Glothid Amondas       —			-	-	Malt & Cod Liver Oil.	-	_				
1       1       —       —       Bread and Butter       7       5       2       —       —       2         1       1       —       —       Tinned Loganberries —       —<											
1     1     2     2     — <td></td> <td>1000000</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		1000000									
2 2 — — Cream — — — — — — — — — — — — —			-								
Picked Shrimps 1 1					Cream	-	-	-	100		
	ATTO ST				Picked Shrimps				100		
00 00 172 120 11	60	60				142	123	11	8	8	11

#### PARTICULARS OF SAMPLES REPORTED TO BE NOT GENUINE.

- Bread and Butter.—Two Formal Samples were reported against, Margarine being supplied instead of Butter. In each case the Vendor was fined £5.
- Whiskey.—One Formal Sample was 46.6 degrees under proof. Proceedings were taken and the Vendor was fined £10. Genuine Whiskey is not more than 35 degrees under Proof.
- Extract of Meat and Malt Wine.—One Formal Sample was reported against containing only a trace of Meat Extract and Malt and no Alcohol, and proceedings instituted. The case was dismissed on the defence that the label and statements by the person who sold the goods to the Vendor constituted a warranty.
- Shrimps.—One Sample contained a very small portion of boric acid, so small as to be of no use for preservative purposes. An explanation that the slight contamination was accidental was tendered by the Vendor, who was afterwards cautioned.
- Fresh Cream.—Two cases were reported against. One contained a very small percentage of Boric Acid, and the Vendor was cautioned. Subsequent samples from this source proved genuine. The second case was found to be "Reconstituted" Cream and no action was taken. The legal position with respect to "Reconstituted" Cream and "Synthetic Cream" should be sharply defined.
- Milk.—Eleven Formal Samples were reported against. In six cases the Vendors were cautioned, and proceedings taken in the five others. Two of them were dismissed, the Bench being satisfied that the milk was sold in the same condition as it came from the Cow. One defendant was fined 40s. In the other two cases samples were taken from the producer in course of delivery, a previous sample taken from a Vendor with a good record having been found to be adulterated. The producer was prosecuted and fined £10 in one case and £5 in the second.
- STERILIZED MILK.—Two cases were taken to Court, one being 13% and the other 10% short of Fat. The Vendor in each case was fined £10.

#### SLAUGHTER-HOUSES.

The time is close at hand when the whole question of the Public Slaughter-houses will have to be considered with a view to modern accommodation being provided.

The Public Slaughter-houses are in Poplar Street, on a plot of freehold land comprising 5,258 square yards. The buildings were erected in 1880.

There are thirteen Slaughter-houses. Seven are let to butchers at a yearly rental; the other six are used in common by butchers who pay a "head rate." There are a like number of lairs directly opposite the Slaughter-houses. During 1928 there were 23,625 animals slaughtered. In the middle of the yard between the lairages are two gut-scraping establishments.

Animals slaughtered in the Borough for human consumption:-

	Poplar Street Slaughter-houses. Public. Rented.		Sla	Totals.		
Cattle	699	1,265		790		2,754
Calves	393	778		155		1,326
Sheep	3,832	15,628		9,052		28,512
Pigs	1,030	-		848		1,878
Total	5,954	17,671		10,845		34,470

851 Pigs have been killed on private premises. It is quite time improved Pig-slaughtering accommodation should be provided at the Public Slaughter-houses, so as to enable the slaughtering to be done under proper supervision.

## PRIVATE SLAUGHTER-HOUSES.

There are six Private Slaughter-houses in the District. Only three of the six are in use. They are kept satisfactorily clean and free from nuisance, and the business in each case is properly conducted. About 31% of the animals slaughtered in the District are dealt with in the Private Slaughter-houses.

## THE PUBLIC HEALTH (MEAT) REGULATIONS, 1924.

No difficulty has been experienced during the year, and none is anticipated. The trade generally is of a very high class, and the President and Members of the Butchers' Association may be relied on to maintain an exceptional standard all round.

#### BACTERIOLOGICAL EXAMINATION OF MILK.

	Samples from Producers in the Borough.	Samples from Producers outside the Borough.
Samples from Bulk	(a) 13	(a) 88
Of which found to be Tuberculous	(b) 0	(b) 2
Samples from individual cows (from the above 13 and 88 cases)	7	0
Of which found to be Tuberculous	0	0

(a) Guinea Pigs died before test completed-14.

In both cases the farms from which the Tuberculous samples came, were visited by the County Veterinary Surgeon and the Borough Veterinary Surgeon who carefully examined all the Cattle. In the first case 3 samples were taken, two being mixed; one from eight cows and one from seven cows. The third was from a 5 year old roan Cow affected with slight hypertrophy in two quarters of the udder. Tubercle bacilli was absent in all three samples. Subsequent samples produced a like result.

In the second case 3 samples were taken. In the two mixed samples Tubercle bacilli was absent. The third sample was from a red Cross-bred short horn Cow and Tubercle bacilli was found. The animal affected was

dealt with under the Tuberculosis Order.

The standard of Cleanliness in Milk has received attention, but in no case was sufficient pollution found to justify a prosecution.

### TUBERCULOSIS ORDER, 1925.

This Order of the Minister of Agriculture and Fisheries, dated the 13th day of July, 1925, came into operation on the 1st September, 1925. It gives to Local Authorities powers similar to those contained in the Tuberculosis Order, 1914, which was suspended in August, 1914.

Under the new Order every person having in his possession or under his charge (1) any Cow which is, or appears to be, suffering from Tuberculosis of the Udder, Indurated Udder or other Chronic Disease of the Udder; or (2) any Bovine animal which is, or appears to be, suffering from Tuberculous Emaciation; or (3) any Bovine animal which is suffering from Chronic Cough and showing definite Clinical signs of Tuberculosis, is required to give notice of the fact to the Local Authority.

Provision is made for compensation to be paid to the owner of every animal dealt with under the Order; during 1928 the Local Authority have dealt with five cows, which have all proved to be Tubercular on post-mortem examination. The owner, in each case received the minimum amount of forty-five shillings as compensation. In every case dealt with the cowshed was disinfected after the animal had been removed. We welcome the new Order, and consider the powers given to Local Authorities are of great benefit to the public in safeguarding the milk supply and preventing the harbouring and dissemination of Bovine Tuberculosis; in fact they have already been most satisfactorily applied.

Animals inspected by the Veterinary Inspector	1027
Bovine post-mortems conducted	

#### REGISTERED COWKEEPERS AND PURVEYORS OF MILK.

	Cov	vkeepers an	nd	
Cowkeepers.	1	Purveyors.		Purveyors.
11		61		145

WORN-OUT OR DISEASED ANIMALS brought (some at the instance of the Veterinary or Dairy Inspectors) by cattle dealers or farmers in the Borough and adjoining Districts to be slaughtered for value of salvage, and those dead before arrival:—

From-	Town.	Country
Tuberculosis	20	32
Pyæmia	1 .	0
Accident	9	1
Dropsical	2 .	0
Emaciation	1	2
Pneumonia	3	3
Peritonitis	2	0
Jaundice	3	0
	41	38

# Water Supply.

"No Purer Water occurs in Nature."

The water supply is maintained by the Southport, Birkdale, and West Lancashire Water Board, which is a combination of the local Authorities of the County Borough of Southport, the Urban District of Formby, and the West Lancashire Rural District, and supplies water within the area of these three Authorities.

The Board was constituted under Act of Parliament of 1901 to take over the Waterworks Undertaking established by the Southport Waterworks Company in 1854.

The supply is constant and sufficient, and the quality good. With the exceptions referred to below, all property within the Borough is supplied direct from the Board's mains.

The Board owns four Pumping Stations, situated six to ten miles South-West of the Town in the Parishes of Aughton, Bickerstaffe and Lathom, and the whole of the water is obtained from Wells over 200 feet deep. Only three of these Stations, however, supply water to the Borough of Southport. Owing to the depth of the Wells and the nature of the strata, the possibilities of contamination are most remote. The waters have no plumbo-solvent action, and no reports of contamination have been received. Although somewhat hard, the water is exceptionally pure, both chemically and bacteriologically.

The last available figures, namely, those for the year ending 31st March, 1928, show that the Board then supplied, direct, an estimated Population, excluding Summer Visitors, of 104,200. The average domestic consumption, excluding Meter supplies and based on this population figure, was at the rate of about 24·19 gallons per head per day; and the total consumption 31·42.

## HOUSES NOT SUPPLIED WITH TOWN WATER.

There are 16 houses in the Borough which derive their water from shallow wells on their own premises. The cost of furnishing a supply of Town's water to these would exceed the water rate authorised to be charged within the district. The supply from these wells up to the present time has been adequate, and we have no cause for apprehension as regards the quality of the water.

Two small holdings in Town Lane are also situated some considerable distance from the Board's mains. These people use the Board's water carrying it from premises which are supplied by meter.

# ANALYSIS, SAMPLE, 19th OCTOBER, 1928. CHEMICAL.

OIILMIOAL.	
	Parts per 100,000.
Calcium Carbonate	18.75
Magnesium Carbonate	2.75
Calcium Sulphate	1.46
Magnesium Sulphate	
Magnesium Chloride	4.28
Sodium Carbonate	5.60
Potassium Carbonate	.85
Silica, etc.	.50
	42.06
Temporary hardness	22.0
Permanent hardness	12.6
Total hardness	34.6
Free Ammonia	-0005
Organic Ammonia	.0005
Oxygen absorbed in 3 hours	.015
Nitrates	Nil.
Nitrites	Nil.
Lead	Nil.
Colour seen in a 2-foot tube	ue Green.
AppearanceBright and S	Sparkling.
The composition of this water remains much the same. T purity is fully maintained.	he organic

HERBERT E. DAVIES.

## BACTERIOLOGICAL.

No. of organisms per c.c. capable of growing upon nutrient gelatine at 22 deg. C. in three days	
No of organisms per c.c. capable of growing upon agar at 37 deg. C. in three days	
Smallest quantity of water giving acid and gas reaction in double strength bile salt lactose broth (Tubes were incubated for 3 days)	
Streptococci absent in 100 c.c. of water.	
Bac. Enteritidis Sporogenes absent in 100 c.c. of water.	E. E. GLYNN.

## RESULTS FOR CONSECUTIVE YEARS.

	Ter	mporar	y. Perr	nanent.	Total.
1913—Nov. 28th		26.5		12.0	 38.5
1913—Dec. 18th		22.6		16.4	 39.0
1915—Mar. 18th		24.0		12.0	 36.0
1915—Mar. 23rd		21.0		12.4	 33.4
1916—Feb. 3rd		26.2		7.6	 33.8
1917—Feb. 17th		18.7		9.6	 28.3
1918—Jan. 29th		18.6		9.9	 28.5
1919—Jan. 13th		24.9		17.0	 41.9
1919—Dec. 30th		25.5		14.6	 40-1
1920—Dec. 16th		23.0		12.8	 35.8
1921—June 29th		25.5		13.8	 39-3
1922—Nov. 23rd		23.2		12.7	 35.9
1923—Oct. 9th		23.2		12.4	 35.6
1924—Oct. 21st		23.7		13.4	 37.1
1925—Sept. 30th		23.7		11.6	 35.3
1926—Oct. 5th		20.5		9.1	 29.6
1927—Dec. 24th		24.6		8.8	 33.4
1928—Oct. 19th		22.0		12.6	 34.6

# Meteorology.

#### Local Weather.

The outstanding meteorological features of 1928, at Southport, were an unusually heavy total rainfall, a remarkable spell of more or less easterly weather from the latter part of February till early in June, a persistently westerly July (the sunniest month of a rather dull year), and considerable storminess during the later half of November. The first four months of the year formed a very mild period. The astonishing local rarity of snow continued.

#### TEMPERATURE OF THE AIR.

58 15	Mean	Deviation from	Absolute Extremes			
	emperature	Normal	Highest	Lowest		
1928	0	0	0	0		
January	41.7	$\cdots$ $+2.6$ $\cdots$	55	30		
February	43.0	+3.3	57	30		
March	43.2	+1.7	59	27		
April	48.3	+2.7	75	31		
May	51.7	+0.6	74	35		
June	54.9	$\dots$ $-1.7$ $\dots$	69	42		
July	59.1	−0.3	72	47		
August	59.7	+0.6	72	46		
September	55.1	0.3	72	34		
October	50.1	+0.9	65	31		
November	45.4	+2.3	61	29		
December	39.3	$\cdots  \frac{-0.7}{-}  \cdots$	54	21		
Year	49.3	+1.0	75	21		

The absence of any noteworthy extremes of air temperature probably forms the chief feature of the above columns. The year as a whole was warm; the first four months and November especially so. The Summer quarter proved the coolest of the four.

	SUN	SHINE	AND OZO	DNE.			
	Duratio	n	Deviation		No. o	of	Mean
	of		from		Sunles	SS	Daily
	Sunshin	e	Normal		days	,	Ozone
1928	Hours		Hours				0 to 10
January	. 56.8		+13.5		13		4.4
February			-0.3		4		3.8
March			-28.3		7		3.3
April			-13.8		3		3.3
May			-23.8		1		4.0
June			-18.0		4		3.9
July			+28.3		1		4.8
August			-10.0		1		3.6
September			+27.0		4		2.3
October			-0.1		7		2.9
November			-8.7		8		3.6
December			+0.7		18		3.2
					_		
Year	. 1497-4		-33.5		71		3.6
	-				_		-

Although the Sun shone for 115 more hours than during 1927, the year was rather dull. Only four months were brighter than usual. Nearly all the deficiency of sunshine however, was caused by the very easterly spring. Two of the holiday months came out well, and the intervening one (August) was not much below normal.

		RAI	WFALL.				
			Deviation	1			Duration
	Total		from	1	Numb	er	of Definite
	Rainfall		Normal		of day	78	Rainfall
1928	Inches		Inches		ith ra		Hours
January	7.15		+4.47				
February	3.31		+1.17		15		53.1
March	2.02		-0.21		16		50.1
April	1.39		-0.43		14		29.8
May	1.45		-0.76		11		21.0
June	4.86		+2.70		21		93.5
July	2.68		-0.34		12		48.6
August	3.12		-0.55		15		54.7
September	1.31		-1.82		12		28.5
October	5.57		+1.86		22		78.7
November	5.72		+2.65		23		84.4
December	2.95		-0.32		21		53.8
Year	41.53		+8.42		209		704.6
	-		The same of the sa				

Only three wetter years have occurred during the Observatory's 57 years existence, and all of those were experienced long ago, viz., in 1872 (48 inches), 1875 (42 inches), and 1877 (47 inches).

The large total rainfall for 1928 was produced by heavy amounts in a few months only—January, June, October and November. The January aggregate was the greatest recorded for any Winter month whatever, in the 57 years!

The year's total number of days with rain was 19 more than the average. Snow, however, was again almost absent, the depth for the entire year being only half-an-inch.

#### HUMIDITY AND SUBSOIL WATER LEVEL.

	Humidity of the air at 9 a.m. % of	Deviation from Normal % of	Mean Level of subsoil Water *	Deviation from Normal
1928.	Saturation	Saturation	Inches	Inches
January	90	+2	33.6	0.3
February	87	1	22.8	9.7
March	87	. +3	28.4	4.4
April	75	4	33.2	1.5
May	71	5	88.8	. +1.2
June	77	. +2	42.2	. +0.6
July	78	. 0	42.3	3.3
August	80	. 0	47.1	0.4
September	80	2	49.8	. +2.0
October	87	. +1	49.1	. +3.0
November	88	. 0	41·1	0.8
December	89	. 0	34.6	3.6
Year	. 82	1	38.6	1.4

<sup>\*</sup> Distance below Well-mouth.

Rainy years are not always humid ones, and 1928 was a case in point. Nevertheless that result this time was mainly due to the very dry land airs of April and May.

The unprecedented rainfall of January caused the ground water to rise to an extremely high level by February, and extensive flooding of the surrounding country resulted. The trouble was augmented by the bursting of banks; and a whole-gale and high tides added a considerable incursion of sea-water north of the town.

## WIND DIRECTION (GROUPED)

	Dur	ation P	ercenta	ages.	Deviations from Normals.						
	N.E.	S.E.	S.W.	N.W.		N.E.	S.E.	S.W.	N.W.		
	&	&	&	&		&	&	&	&		
	E.	S.	W.	N.		E.	S.	W.	N.		
1928.	%	%	%	%		%	%	%	%		
January	2	30	57	11		-10	- 4	+18	- 4		
February	12	27	55	6		- 5	- 9	+23	- 9		
March	38	35	19	8		+17	+10	-15	-12		
April	33	29	16	22		+10	+ 9	-18	- 1		
May	47	14	8	31		+21	- 7	-22	+ 8		
June	18	19	43	20		- 5	+ 2	+11	- 8		
July	1	9	62	28		-14	-10	+23	+ 1		
August	7	37	41	15		- 7	+15	0	- 8		
September	25	30	25	20		+ 4	+ 2	- 5	- 1		
October	17	44	27	12		- 5	+ 8	+ 2	- 5		
November	- 21	25	35	19		+ 3	- 8	+ 5	0		
December	21	40	22	17		+ 6	+ 2	-10	+ 2		
Year	20	28	34	18		+ 1	+ 1	+ 1	- 3		

The striking persistence of easterly winds during the Spring, and their rarity in July, have already been mentioned. Equatorial currents were unusually prevalent in January and February.

Except during the Spring, and in September and December, the year was a windy one. Stiff gales occurred in January, February and November, but "storm-force" was not quite attained, and the locality escaped the very destructive visitations that wrought such havoc at Liverpool and along the Wirral seaboard.

(Signed) JOSEPH BAXENDELL,

Borough Meteorologist.

THE FERNLEY OBSERVATORY, SOUTHPORT.

## ATMOSPHERIC POLLUTION COMPARATIVE STATISTICS.

Monthly Means, at various Places, for the Year April, 1927, to March, 1928. In Metric Tons per Square Kilometre.

Secretary Species	Rainfall Insoluble Matter.				Total			Included in Soluble Matter.		
STATIONS	Pollution Gauge.) In Milli- metres.	Tar.	Carbon- aceous, other than Tar.	Grit, (as Ash).	Insol- uble Matter.	Total Soluble Matter.	TOTAL SOLIDS.	Sulphates (SO <sub>3</sub> ).	Chlorine (Cl).	Ammonia
SOUTHPORT :-										
Hesketh Park	87	0.04	0.94	1.12	2.10	3.30	5.41	0.65	1.03	0.01
Woodvale Moss	79	*	*	*	1.20	2:69	3.90	*	*	3/4
Edinburgh:—	-									
Leith Links	68	0.15	0.91	1.83	2.89	2.93	5.83	0.72	0.38	0.08
Usher Institute	74	0.16	0.74	1.88	2.78	4.37	7.15	0.85	0.33	0.10
Glasgow :-	0.0	0.00				130				
Alexandra Park	85	0.07	1.46	2.62	4.15	4.12	8.27	1.45	0.58	0.24
Bellahouston Park	90	0.03	0.96	1.98	2.97	5.54	8.51	1.61	0.45	0.13
Blythswood Square	93	0.11	2.10	4.62	6.82	6.31	13.14	1.82	0.68	0.22
Botanic Gardens	99	0.06	1.58	3.56	5.20	5.66	10.86	1.81	0.51	0.15
Queen's Park	94	0.03	1.03	2.56	3.62	4.81	8.43	1.23	0.40	0.16
Richmond Park	92	0.07	1.82	3.07	4.96	5.67	10.64	1.76	0.55	0.20
Ruchill Park	98	0.10	1.37	2.34	3.81	4.95	8.76	1.31	0.63	0.18
Tolleross Park	88	0.10	1.48	3.05	4.63	5.85	10.48	1.64	0.45	0.17
Victoria Park	95	0.14	2.83	3.47	6.44	8.13	14.57	2.16	0.68	0.32
Newcastle-on-Tyne :-						10000000	-			
City Road		0.66	9.75	11.87	22.28	7.45	29.73	2.50	0.90	0.19
Town Moor		0.27	1.48	1.60	3.35	5.90	9.25	1.45	0.79	0.07
Westgate Road		0.50	3.04	3.81	7.35	8.15	15.21	2.53	0.65	0.10
Burnley	134	0.36	5.78	6.23	12.67	15.87	28.54	4.58	1.50	0.38
Leeds:—		1000			(4)/25	DAMES .	P.S.E.		The same	300000
Headingly		0.07	0.98	0.83	1.88	3.58	5.47	0.80	0.69	0.15
Hunslet		0.15	2.94	6.44	9.53	7.07	16.61	2.03	0.94	0.55
Park Square	78	0.16	2.15	4.01	6.32	4.76	11.08	1.40	1.09	0.58
York Road	80	0.21	2.69	3.77	6.67	5.90	12.58	1.83	0.92	0.25
Hull		0.12	2.51	4.93	7.56	7.53	15.10	2.25	1.02	0.15
Castleford	65	0.29	2.38	6.72	9.39	3.42	12.81	0.88	0.74	0.04
Wakefield	84	0.25	2.50	3.50	6.25	6.06	12.32	1.75	1.02	0.13
Huddersfield :-				1000						
Cooper Bridge	73	0.02	1.37	1.92	3.31	11.95	15.26	2.74	1.36	0.31
Deighton	99	0.05	2.74	3.53	6.32	7.93	14.24	1.84	1.03	0.19
Rochdale :-		100000	-	-	-	1	-		100000000000000000000000000000000000000	
Cemetery	143	0.11	1.11	1.67	2.89	6.11	9.03	1.42	0.90	0.07
Drake Street	141	0.21	2.18	4:48	6.87	7.16	14:03	2.04	1.16	0.08
Edwards &										
Brynings' Works	119	0.15	2.50	4.34	6.99	5.79	12.79		0.90	0.08
Electricity Works .		0.24	4.91	8.41	13.56	5.67	19.25		1.03	0.09
Milnrow Road	. 139	0.15	2.31	4.75	7.18	5.67	12.88	11 10 10 10 10 10 10 10 10 10 10 10 10 1	1.13	0.06
One Ash	. 135	0.12	1.76	2.79	4.67	5.77	10.45		0.89	0.07
St. Mary's Church.		0.21	3.37	6.16	9.74	5.37	15.18		0.69	0.07
Stonyfield		0.13	2.12	3.94	6.19	5.82	12.01	1.37	1.00	0.09
Technical School .		*	ajt	*	16.02	3.45	19:46		*	*
Town Hall		0.15	2.18	4.01	6.34	5:31	11.66	1.19	1.00	0.06
				1			4			

## ATMOSPHERIC POLLUTION—COMPARATIVE STATISTICS.—continued.

Monthly Means, at various Places, for the Year April 1927, to March 1928.

In Metric Tons per Square Kilometre.

In Metric Tons per Square Knometre.										
	Rainfall Per	Insoluble Matter.			Total	T-1-1		Included in Soluble Matter,		
STATIONS	Pollution Gauge.' In Milli- metres.	Tar.	Carbon- aceous other than Tar.	Grit, (as Ash).	Insol- uble Matter.	Total Soluble Matter.	TOTAL SOLIDS.	Sulphates (SO <sub>3</sub> ).	Chlorine (Cl).	Ammonia (NH <sub>2</sub> ).
SOUTHPORT :-										
Hesketh Park	87	0.04	0.94	1.12	2.10	3.30	5.41	0.65	1.03	0.01
Woodvale Moss	79	*	*	*	1.20	2.69	3.90	*	*	*
Salford :—										
Ladywell										
Sanatorium	84	0.38	4.27	6.62	11.27	4.58	15.86	1.99	1.41	0.09
Peel Park	87	1.18	4.41	5.55	11.14	7.26	18.39	3.04	1.86	0.11
Regent Square	90	1.18	6.20	4.43	11.81	5.63	17.45	2.57	2.04	0.09
St. Helens	100	0.24	3.20	6.70	10.44	8.30	18.74	2.69	1.19	0.25
Liverpool	84	0.21	2.85	6.55	9.61	8.96	18.56	2.35	1.39	0.19
Rotherham	65	0.21	3.07	5.73	9.01	3.37	12.39	1.02	0.75	0.17
Marple	73	0.36	3.85	1.74	5.95	2.76	8.71	1.44	0.73	0.07
Stoke-on-Trent	74	0.29	1.27	2.98	4.54	2.70	7.25	0.69	0.55	0.08
Leicester Birmingham :—	65	0.11	2.35	5.81	8.27	4.37	12.64	1.40	0.36	0.05
Central	73	0.12	2.09	5.30	7.51	5.09	12.61	1.68	0.67	0.11
Bournville Village	81	0.04	0.72	0.99	1.75	2.86	4.61	0.64	0.28	0.05
Bournville Works	83	0.04	0.97	1.50	2.51	3.23	5.75	0.66	0.28	0.01
West Heath	82	0.04	0.42	0.97	1.43	2.76	4.20	0.87	0.35	0.06
Gloucester	?	*	*	*	3.21	7.27	10.76	坤	*	*
Rothamsted	72	*	0.58	1.17	1.75	2.37	4.12	*	*	*
Cardiff	113	0.25	2.41	5.18	7.84	3.76	11.59	1.04	0.52	0.01
London:—	-									
Archbishop's Park	60	0.15	2.57	3.43	6.15	4.95	11.10	1.68	0.40	0.17
Finsbury Park	60	0.17	1.87	3.11	5.15	4.11	9.27	1.04	0.43	0.07
Golden Lane	47	0.07	4.46	6.23	11.06	8.32	19.39	2.44	0.89	0.21
Kensington (Met'rologic'l Office)	51	0.17	1.86	3.49	5.52	4.11	9.63	1.18	0.46	0.05
Kew Observatory	77	0.10	0.70	1.31	2.11	3.59	5.72	0.99	0.43	0.11
., ,,	84	0.10	0.84	1.41	2.35	4.13	6.49	1.12	0.42	0.23
Ravenscourt Park	65	0.12	1.10	2.77	3.99	3.25	7.24	0.94	0.31	0.11
Southwark Park	62	0.23	2.52	4.07	6.82	4.02	10.84	1.25	0.44	0.12
Victoria Park	61	0.07	1.33	2.38	3.78	3.03	6.82	0.90	0.34	0.08
Wandsw'th Common	61	0.11	1.56	2.79	4.46	3.50	7.95	0.89	0.42	0.08
Kingston-on-Thames	48	0.07	0.66	1.02	1.75	3.54	5.29	0.93	0.41	0.00
	,	1	1			1	1			

<sup>\*</sup> Not determined.

Authority for Atmospheric Pollution data:—J. S. Owens, D.Sc., M.D., A.M.I.C.E.,
Superintendent of Atmospheric Pollution Observations.

Department of Scientific and Industrial Research.



VITAL STATISTICS OF WHOLE DISTRICT DURING 1928 AND PREVIOUS YEARS. BOROUGH OF SOUTHPORT. TABLE I.

COUNTY

16.05 13-17 15.40 12.80 18.56 18-50 18.54 18.49 13-66 11.93 12.62 NEIT DEATHS BELONGING TO THE DISTRICT. At all Ages. nder 1 Year of Age. TRANSFERABLE DEATHS, a of Non-residents registered in the District. TOTAL DEATHS
EGISTERED IN THE
DISTRICT.
Z 12.64 12.64 15-79 12-48 11.85 11.26 14.83 18.05 12.98 18-24 18.07 11.54 13-10 12.18 10-99 17-26 15-38 12.90 14-27 11.90 12.14 9.42 Population estimated to Middle of each year. 79,290 000'69 70,000 

z Including deaths in the Borough Isolation Hospital in the West Lancashire Rural District.

In Column 6 are included the whole of the deaths registered during the year as having actually occurred within the district, military deaths excepted.

In Column 12 is entered the number in Column 6, corrected by subtraction of the number in Column 8 and by the addition of the number in Column 9. Deaths in Column 10 are similarly corrected by subtraction of the deaths under 1, included in the number given in Column 8, and by addition of the deaths under 1 included in the number given in Column 9.

a "Transferable Deaths" are deaths of persons who, having a fixed or usual residence in England or Wales, die in a district other than that in which they resided.

b See remarks, Table III.

The following Special Cases arise as to Transferable Deaths:-

(1) Persons dying in Institutions for the sick or infirm, such as hospitals, lumatic asylums, workhouses, and nursing homes (but not almshouses) have been regarded as residents of the district in which they had a fixed or usual residence at the time of admission. If the person dying in an Institution had no fixed residence at the time of admission the death is not transferable.

(2) The deaths of infants born and dying within a year of birth in an Institution to which the mother was admitted for her confinement have been referred to the district of fixed or usual residence of the parent.

(3) Deaths from Violence have been referred (a) to the district of residence, under the general rule; (b) if this district is unknown, or the deceased had no fixed abode, to the district where the accident occurred, if known; (c) failing this, to the district where death occurred, if known; and (d) failing this, to the district where the body was found.

	1921	71,900	16,814	4-41	9,426
Census		***	***	::	:
	1911	69,643	15,676	44.4	9,426
		Total population at all ages	Number of inhabited houses	Average number of persons per house	Area of District in acres (land and inland water)

### TABLE II. CASES OF INFECTIOUS DISEASE NOTIFIED DURING THE YEAR 1928.

COUNTY BOROUGH OF SOUTHPORT.

			Nus	BER OF CA	ASES NOTIF	TED.				FOTAL CASI	LOCALITY.	D IN EAC	Н	
Notifiable Disease.				At	Ages—Yes	ars.			1 Six	2 Scaris-	3 Park and		5 Birkdale N'rth,East	TOTAL CASES REMOVED TO HOSPITAL
	At all Ages.	Under 1.	1 to 5.	5 to 15.	15 to 25.	25 to 45,	45 to 65.	65 and upwards.	Central Wards. Est. pop. 31,968	Sussex Wards, Est. pop., 15,270	Birkdale West Wards. Est. pop., 9,843	Ward. Est. pop. 5,480	South and Ainsdale. Wards. Est. pop., 16,729	HOSPITAL
mail-pox	_	=	_	_	_	=	_	=	_	-	=		-	=
Croup)	29 123	1 3 —	12 22 —	33 69 —	12 17	12 7 12	1 17 —	5	29 10 42 —	18 4 28 —	8 4 16 —	10 2 15	6 9 22 —	68 5 111 —
Enteric Fever Para-Typhoid Fever Relapsing Fever (R) Continued Fever (C) Puerperal Fever	5 —	=			1 2 —	- -		- - -	4 -	1111	1 -			3 - - 8
Puerperal Pyrexia	1 1 82	1 1 —	= 1	5	2 — — — 18	4 — 35	20		30		1 - 7 3	8 - 4 5	1 1 28 7	96
Other forms of Tuberculosis  hicken Pox leasles  Jerman Measles	484 674	1 15 11 2	8 78 199 4	14 819 489 16	28 13 3	3 4 7 1	2 - 3 -	1 2 1	13 100 271 11	5 116 49 3	61 48 4	58 59 1	99 247 8	8 14 2
Whooping Cough	310 3 139	20 3 4	141 30	142 	9	4 24 2	1 28 11		61 1 42 7	65 - 18 6	14  22 3	63 — 16 —	107 2 41 4	$\frac{2}{7}$
Dysentery Amoebic Malaria Encephalitis Lethargica Cerebro Spinal Meningitis	1 2						1 2 1		$\frac{-1}{1}$	-	_ _ 1	-	1	_ _ 1
Totals	1000	62	490	1067	107	117	87	33	626	330	193	236	578	822

# TABLE III. CAUSES OF, AND AGES AT, DEATH DURING THE YEAR 1928. COUNTY HOROGER OF SOUTHFORT.

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TOTAL DEATHS WHETHER OF	OR "NON- RESIDENTS " IN IN THE DISTRICT (b).	111	T	1	1	1	1	1	91	1	1	1	1	1	01	15	1	00	00	00	111	1	1	60	1	1	9	1	01	11	1	01	40	1	1111
THER	65 and up- wards	10	527	17	1	1	1	1	1	1	14	1	7	1	1	81	1	1	87	52	2.4	6	1	1	+	1	26	1	1	1	10	1	8558	01	544
r (a).	45 and under 65 years	6	276	11	1	1	-	1	1	-	11	1	14	1	1	46	01	1	44	6	01	01	1	1	+	1	14	1	1	1	9	1-	99	+	287
ESIDENT	25 and under 45 years	8	71	+	1	1	1	1	1	1	01	1	12	-	1	00	1	1	4	1	00	1	1	01	1	1	+	1	01	1	90	9	21	7	75 2
Nett Deaths at the subjound ages of "Rindbents" whether occurring within or without the District (4).	1 and 2 and 5 and 15 and 25 and 45 and wider under under under under under under under	7	25	1	1		1	1	1	1	1	1	1-	1	01	1	1	1	1	1	4	1	1	-	1	1	1	1	1	1	1	01	7	1	55
DED AGES	5 and under 15 years	9	10		-	1	1	1	1	-	-	1	01	1	-	1	1	1	1	1	1	1		01	1	1	1	1	1	1	E	1	+		10
SUBJOIN WHIN O	2 and under years	10	16	1	1		1	1	+	1	1	1	1	1	01	1	1	1	1	1	90	1	1	1	1	1			1-	1	1	1	1	1	91
S AT THE REENG W	I and under years.	*	18	1	1	1	1	1	00	1	1	1	1	1	1	1	1	1	1	00	NO.	1	1	1	1	1	1	1	1	-			60	1	81
DEATH	Under 1 year, 2	65	49	10			1	1	01	L	-1	1	1	1	1	1	1	60	1	01	10	1	+	1	1	1	1	1	1	3.0	1		10		69
NET	All ages.	01	1001	37	1	1	01	1	0	1	53	1	89	7	9	136	00	9	185	89	2.6	13	+	9	6	-	45	ï	01	355	21	15	369	6	1044
	Garsis ov Dratti	1	( Certified (c)	An Causes (Uncertified	1—Enteric Fever	2—Small-pox	3-Measles	4—Scarlet Fever	5-Whooping Cough	6-Diphtheris and Croup	7—Influenza	8—Erysipelas	9-Phthisis (Pulmonary Tuberculosis)	10-Tuberculous Meningitis	11-Other Tuberculous Diseases	12-Cancer, malignant disease	13—Rheumatic Fever	14—Meningitis (See Note (d))	15-Organic Heart Disease	16—Bronchitis	17—Pneumonia (all Forms)	18-Other diseases of respiratory organs	19-Diarrhœa & Enteritis (See Note (c) )	20-Appendicitis and Typhlitis	21-Cirrhosis of Liver	21a-Alcoholism	22-Nephritis and Bright's Disease	28—Puerperal Fever	24—Other Accidents and Diseases of Pregnancy and Parturition	25—Congenital Debility and Malforma- tion, including Premature Birth	26-Violent Deaths, excluding Suicide	27—Suicide	28-Other Defined Diseases	29—Diseases ill-defined or unknown	*

### NOTES TO TABLE III.

- (a) All "Transferable Deaths" of residents, i.e. of persons resident in the District who have died outside it, are included with the other deaths in columns 2—10. Transferable deaths of non-residents, i.e. of persons resident elsewhere in England and Wales who have died in the District, are in like manner excluded from these columns. For the precise meaning of the term "transferable deaths" see footnote to Table I. The total deaths in column 2 of Table III equal the figures for the year in column 12 of Table I.
- (b) All deaths occurring in institutions for the sick and infirm situated within the District, whether of residents or of non-residents, are entered in the last column of Table III.
- (e) All deaths certified by registered Medical Practitioners and all Inquest cases are classed as "Certified"; all other deaths are regarded as "Uncertified."
- (d) Exclusive of "Tuberculous Meningitis" but inclusive of Cerebro-Spinal Meningitis.
- (e) Title 19 has been used for deaths from Diarrhæa and Enteritis at all ages. (In the "Short List," deaths from Diarrhæa and Enteritis under 2 years are included under Title 19; those at 2 years and over being placed under Title 28).

## TABLE IV. INFANTILE MORTALITY DURING THE YEAR 1928. Nett Deaths from stated Gausse at Various Ages under One Year of Age. COUNTY BOROUGH OF SOUTHFORT. (See Note (a) at Back.)

Causes of Death.	Under 1 week.	1-2 weeks.	2-3 weeks.	3-4 weeks,	Total under 4 weeks.	1-3 months	1-3 3-6 months, months.	6-9 months	6-9 9-12 months, months.	Total Deaths under 1 year,
All causes   Certified	24	60	00	-	31	00	14	9	20	99
Uncertified	00	-		1	00	1	1	1	1	10
- Small-pox	1	- 1	. 1	- 1	1	1	1	1	1	1
Chicken-pox	1)	I		-		1		1	1	1
Measles	1	1			1	1	1	1	-	-
Scarlet Fever	1	1	1	1	1	1	1	1	1	- 1
Whooping Cough		1	1	- 1	1	1	1	1	1	01
Diphtheria & Croup		- 1	1	1	- 1	J	1	1	1	1
Erysipelas	1	1	1	1	1	1	1	1	1	- 1
Tuberculous Meningitis	1	1	1	1	- 1	1	1	1	1	1
Abdominal Tuberculosis (b)	1	1	1	1	1	-1	1	1	1	1
Other Tuberculous Diseases	1	1	1	L	1	1	1	1	1	1
Meningitis (not Tuberculous)	1	1	1	1	1	1	01	-	1	00
Convulsions	1	1	1	1	1	01	1	1	1	4
Laryngitis	1	1	1	1	1	1	1	1	1	1
Bronchitis	1	1	1	1	1	1	-	1	1	01
Pneumonia (all forms)	1	1	1	1	1	1	+	00	1	10
Diarrhea	1	1	1	1	1	1	1	1	1	1
Enteritis	1	1	1	1	1	1	1	I	01	00
Gastritis	1	1	1	1	1	1	1	1	1	1
Syphilis	1		1	1	-	1	1	1	1	-
Rickets	1				-	1	1	1	1	1
Suffocation, overlying	1	1	L	1	1	1	B	1	1	1
Injury at birth	1	1	1	1	1	1	1	1	-	1
Atelectasis	1	1	1	1	1		1		1	-
Congenital Malformations (c)	00	01		1	9	1	01		1	6
Premature birth	13	1	1	1	14	1	1	1	1	15
Atrophy, Debility & Marasmus	83	1	01		10	1	1	1	1	t-
Other Causes	7	1		1	4	1	1	01	1	t-
Totals	27	00	00	1	3.6	00	15	1-	10	69
Nett Births registered leg	legitimate		828	7.0	Nett Deaths registered	s registe	red	legitimate	1ate	19
	illegitimate		57		ye	year	-	lillegitimata	mate	œ

Total .....69

Death Rate 75.

### NOTES TO TABLE IV.

- a) The total in the last column of Table IV equals the total in column 10 of Table II, and in column 3 of Table III.
- (b) Under Abdominal Tuberculosis are included deaths from Tuberculous Peritonitis and Enteritis and from Tabes Mesenterica.
- (c) The total deaths from Congenital Malformations, Premature Birth, Atrophy, Debility and Marasmus, equal the total in Table III under the heading Congenital Debility and Malformation including Premature Birth.
- (d) For references to the meanings of any other headings,  $\sec$  notes attached to Table III.

In recording the facts under the various headings of Tables I, II, III and IV, attention has been given to the notes on the Tables.

GEO. C. BARNES,

Medical Officer of Health.

March, 1928.

TABLE V.

Showing the total number of Cases of Infectious Disease notified in the Borough, and the Deaths resulting therefrom, during the last 10 years (1919–1928). It includes the Deaths which occurred both in the Borough, and in the Borough Infectious Diseases Hospital (outside the Borough).

-			-	NAME OF TAXABLE PARTY.					_		, and in the	Borou	gh Infe	ctious 1	Diseases	Hospi	tal (out	side th	e Borou	igh).			
			Nu.	MBER OF	CASES	OF INFEC	TIOUS D	DISEASE	NOTIFIEL	).						D	EATHS 1	ROM INI	ECTIOUS	DISEAS	E.		
	1919.	1920.	1921.	1922.	1923.	1924.	1925.	1926.	1927.	1928.	Total Cases for 10 years 1919 to 1928,	1919,	1920.	1921,	1922.	1923.	1924.	1925.	1926.	1927.	1928.	Total Deaths during 10 years 1919 to 1928.	in Borough and Borough Hospital
Scarlet Fever	119	199	129	168	101	107	132	122	144	123	1844	1	-	_	2				1	_		4	0.30%
Small-pox	-	-	-		-	-			65	-	65	-		-									
Diphtheria	69	41	109	42	37	35	44	35	49	71	532	6	2	5	1			-	-		9	-	
Typhus		_	-	-						_	_	_	-	3	100	1		2	1	-	1	19	3.57%
Typhoid Fever	7	8	13	2	7	16	4	5	7	1	70	-			-		_	-	_	-	-	-	-
Para-Typhoid Fever	-	_	1		2	1		_		5		1	1	8	-	-	1	-	1	1		8	11.43%
Continued Fever		-	-						1		10	-	-	-		1	-	-	-	-	-	1	100%
Erysipelas		52	23	30	22	36	-	-	-		-	5000	-	-	-		-		-	-	-	-	-
Puerperal Fever		6			22		36	34	21	29	324		1	1	-	8	-	1	1	777	1	8	2-47%
Puerperal Pyrexia		0	5	1	1	3	1	2	1	-77	23	-	2	1			1	1	-	-		5	21-74%
		-		-	-	-			1	6	7	-	100	-	1770	-	-		-	-	-	-	-
Cerebro-Spinal Meningitis	100	-	-	2	1	-	-	-	-	1	4	-	-	-		120	-			-	-	-	_
Poliomyelitis	-	3	1	1	1	-	-	2	1	1	10		-	-				-			-	-	_
Pulmonary Tuberculosis	9,8	91	80	104	87	101	74	83	78	82	878	61	44	42	43	52	65	44	86	41	39	467	53-49%
Other forms of Tuberculosis	21	29	84	23	32	34	36	28	24	33	294	14	8	10	8	16	13	10	8	7	10	104	35-37%
Ophthalmia Neonatorum	23	20	12	7	6	11	2	3	5	3	92	-8	-	_	_					_			00 01 /6
*Chicken Pox	269	426	412	119	307	249	372	391	348	434	8827	-											_
915	125	499	890	170	1064	288	672	887	401	674	5670	1	2	2	1	9	2	3	5			-	_
German Measles	43	44	58	26	16	23	187	45	26	27	490	_			1	,	2	3	3	2	2	29	0.51%
*Whooping Cough	79	262									- 656			-		-		-		770	-	-	-
	19	202	293	208	121	292	240	418	118	310	2841	2	3	5	9	-	4	2	5	8	9	42	1.79%

The following additional notifications were received :—Pneumonia (all forms) 159; Encephalitis Lethargica, 2; Malaria, 1.

\*Chicken Pox, Measles and Whooping Cough were made compulsorily notifiable in Southport in May, 1902, and Cerebro-Spinal Meningitis, Poliomyelitis and Ophthalmia Neonatorum in February, 1912.

Measles, German Measles, and Whooping Cough:—Only the first case in a house in two months is notifiable.

. DETERMINED THE RESERVE THE PROPERTY OF THE PRO

Cases of certain Infectious Disease treated in the Borough Infectious Diseases Hospitals during the last 10 years, 1919 to 1928.

	1919	1920	1951	1922	1923	1924	1925	1926	1927	1928	Ten years, 1919 to 1928.	
Scarlet Fever	. 80	140	16	125	84	87	102	16	114	111	1038	
Small-pox	1	1	1	1	1	1	1	1	0.45	1	4.5	
Diphtheria	53	31	84	84	550	53	89	81	46	68	444	
Typhoid Fever	. 1	*	90	1	-	12	1	00	40	1	382	
Para Typhoid Fever	1	1	1	1	1	1	1	1	-		4	
Erysipelas	+	+	10	+	00	10	*	00	10	NO.	40	
Puerperal Fever	1	60	+	1	2.1	1	1	1	8 1	1+	10	
Measles	-	04	17	01	10	00	20	9	16	14	86	
German Measles	24	1	1	1	1	1	1	1	1	61	19	
Chicken Pox	1	1	1	1	1	1	6	10	1	00	98	
Cerebro-Spinal Meningitis	1	-	1	1	1	1	- 1	1	1	-	۰	
Ophthalmia Neonatorum	10	10	1	00	1	1	1	1	1	1		
Totals	163	161	218	168	122	187	181	140	0000	214	1762	
Miscellaneous Cases	15	55	20	10	0	04 01	14	7	00	53	156	
Pneumonia	1	1	1	1	1	1	61	60	1		16	
Poliomyelitis	1	1	1	1	1	1	1	-	1	- 1	-	
Puerperal Pyrexia	1	1	1	1	1	1	1	1	1	00	. 00	
T.B. Meningitis	1	1	1	1	1	1	1	1	1	-	04	
Tuberculosis	53	45	50*	48*	52.0	*02	•19	46*	24.0	*96	555	
	282	259	283	297	184	900	920	100	200	0.00	-	

DEATHS AMONG THE ABOVE.

	he	8																,
	Totals for the 1928 Ten years	1919 to 1928,	1	17	+	1	1	1	1	92	01	21	1	1	01	-	01	136
	1928	1	1	1	ï	1	- 1	1	-	12	1	1	-1	1	-	1	1	15
	1927	-	1		1	1	1	1	1	6	- 1	1	1	1	ř	1	- 1	6
	1926	-	Ţ	91	1	1	1	1	1	10	1	1	1	-	-	-	1	18
	1925	1	1	01	1	1	-	1	1	6	1	1	ı	1	1	1	1	13
THE WOLLD	1924	1	1	1	-	1	-		1	+8	- 10	1	ì	i	1	1	-	10 1
-	1923	-	1	* 01	1		-		ı	15	1	,		-	-	-		
-	1922	1		1			,			49		1	To Kin	- 1		1.	1	20
			1.		1	1	L	1			de	1	1	1		.1	-	00
	1921	1	U	9.0	-	-	1	1	1	10	1	1	1	1	1	1	-	13
	1920	Ţ	L	1	1	1	1	1	4	14	1	1	-	I		ï	1	11
	1919	1	1	*	1		1		1	+	1	1	1	1	1	1	1	18
		Scarlet Fever	Small-pox	Diphtheria	Typhoid Fever	Puerperal Fever	Measles	Whooping Cough	Marasmus	Tuberculosis	Pneumonia	Erysipelas	Infantile Diarrhea	Cerebral Hæmorrhage	Tuberculous Meningitis	Capillary Bronchitis	Encephalitis Lethargica	Totals

• Including one non-resident of Southport.

Including 2 non-residents of Southport in 1919; 3 in 1920; 1 in 1922; and 1 in 1924.

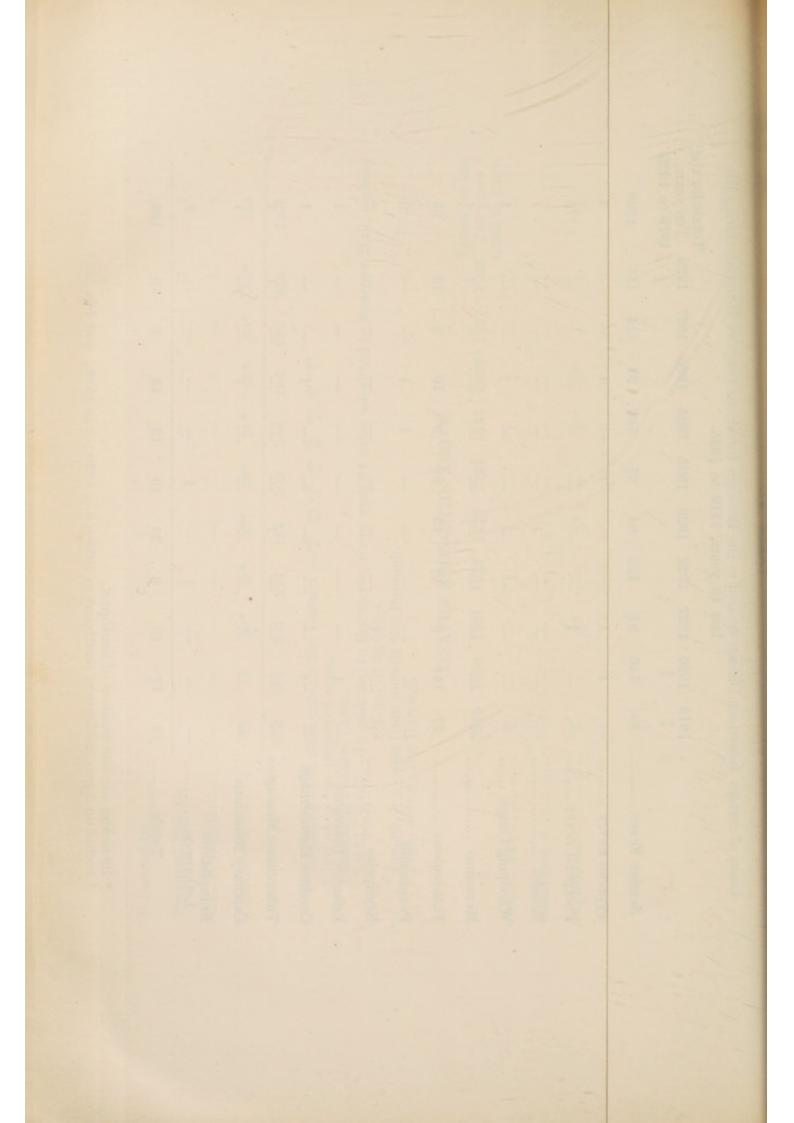


TABLE VIII. VITAL STATISTICS—ENLARGED BOROUGH OF SOUTHPORT (INCLUDING SOUTHPORT, BIRKDALE, AND AINSDALE).

st distinguished as "native" or "local," are gross figures, without correction, and on that account may be in some cases be found to differ from the figures given in Tables I to IV, which are corrected in account may be in the moster second to the most second to the most

_			_						416				with ti	be requ	remen!	ts of the	s Minist	try of 1	tealin,	as state	d in th	e notes	append	ged to	them.					10000				_	-	-	
	BIR	THS.	-		DEATH	8.								DEAT	HS FR	OM								I	EATE	S OF I	ERSON	8 AGI	D.	ANN	UAL R	ATES	PER TI	HOUSA	ND LI	VING.	
YEAR.	Male.	Female,	Male.	Female.	Resident more than One Year	Resident less than One Year	Bud Lives Imported	Seven Zymotic Plerases	Small- pos.	Measles.	Scarlet Feter,	Diph- theria.	Whoop- log Cough.	Fever.	Diarrhora	Cholera and Cholerale Diarrhora	Discuses of the Respira- tory Organs.	Phthisis	Violence	Imported Phthisis.	Imported Diseases of Respira- tory Organs.	Public liens.	Deaths under One Year of Age to 1000 Births.		1-0.	3-15.	15-25.	25-60	00 and spearin	Hirths.	Deutle, Gross.	Deaths, Local.	Deaths, Zymotic	SATIVE	of Res- physicsy Organia.	Douths, Etherases of Ros- piratory Organs, Local,	
1912	526	502	430	459	787	102	88	22		6	1	10	3	2		-	129	55	25	12	11	87	77	79	88	33	23	259	457	14-55	12-58	11-84	-81	-61	1-83	1-67	70,640
1918	524	589	406	480	791	95	87	88		8	1	2	5	1	26		187	52	26	9	14	.78	92	98	80	14	31	249	464	14-95	12-46	11-24	-58	-60	1.93	1.78	71,092
1914	503	511	449	525	886	88	64	-33		10	1	5	8	1	8		178	50	28	7	9	100	104	106	49	23	23	264	509	14:16	18-58	12-68	-46	-60	2-48	2.86	71,747
1915	486	491	456	574	982	98	77	26		5	6	8	5		2		164	49	31	7	5	85	90	88	46	35	35	298	588	13-63	15-20	14-06	-38	-62	2-42	2-85	67,700
1916	518	495	441	505	851	9.5	72	41		21	1	15			4	-	142	47	24	8	11	79	83	84	52	32	25	245	508	14-06	14-12	18-04	-61	-58	2-19	1-96	67,000
1917	390	395	378	517	806	89	72	13			3	8	4	1	2	-	130	51	25	6	18	88	80	68	44	28	80	284	496	10-95	18-56	12-47	-20	-68	2-00	1.77	66,000
1918	404	872	465	579	927	117	88	22	-	4	2	8	8	2	8	-	148	.51	16	18	14	88	61	47	55	4.5	64	385	498	10-82	15-79	14-56	-88	-58	2.24	2-08	66,000
1919	446	431	476	562	961	77	60	24		2	1	6	2	1	12	24	160	51	80	1	10	103	98	82	36	26	58	382	509	12.28	14-88	14-01	-83	-71	2.29	2-14	70,000
1920	662	597	438	477	889	26	17	14		2	-	1	8	1	7	-	125	46	28	7	15	87	54	68	22	24	33	282	486	17-28	18-07	12-11	-20	-56	1.79	1-57	70,000
1921	554	566	411	488	874	20	16	25		2	-	-6	5	2	10	-	129	38	26	7	2	96		74	29	15	34					12-21		-43	1-79	1.77	71,900
1922	538	468	441	501	927	15	15	18		1	2	1	9	-	5	-	168	42	82	2	1	92		59	32	19	43	243	_			12-87		-54	2.26	2-25	72,020
1928	514	498	488	502	929	11	10	20		9		2	-	-	9	-	159	55	26	7	8	98	63	64	40	14	26	250	_			12-84		-66		2-09	72,410
1924	505	447	481	546	959	18	16	**		2			5	1	3	-	155	65	82	9	11	95	68	56	85	12	31		_			18-02			2-10	1-95	78,650
1925	500	488	401	479	845	35	41	9		2	1	8	2	-	2		146	37	26	2	10	85	1000	58	26	12	25		100000			11.80				1.88	
1926	471	472	412	475		62	17	15		6	2	2	3	1			119	35	36		12	98	68	60	21	13	26		1993			10-58			1.52		77,970
1927	492	481	462	540	935	62	5	5		1		-	3	-	3		170	38	38		9	134	48	47	15	12	24					11-95				2-05	
1928	475	482	429	578	981	71	4	13		2		1	9		1		154	35	82	1	18	111	75	72	34	13	23	240	620	12-07	12-64	11.74	-16	-43	1-96	1.78	79,290

(For the years 1871–1911 see Report for year 1915).

RETURN relating to all persons who were treated at the Treatment Centre at Southport during the year ended the 31st December, 1928.

		Syp	Syphilis.	Soft C	Soft Chancre.	Сопо	Gonorrhæa.	othe	other than Venereal.	To	Тотаь.
		Males	Females	Males	Females	Males	Females	Males	Females	Males	Females
20	Number of cases which—  (a) at the beginning of the year under report were under treatment or observation for	106	10.	-	1	182	98	98	‡	107	202
_	(b) had been marked off in a precious years a having cased to attend or as transferred to other Centres, and which returned to the Treatment Centre during the year under report suffering from the same injection	01	-	. 1	1	40	=	60	-	10	138
	TOTAL—Items 1 (a) and 1 (b)	108	92	1	1	187	26	89	45	335	218
(a).	Number of cases dealt with at the Treatment Centre during the year for the first time	219	40	91	-	106	88	7.0	10	206	108
	TOTAL—Items 1 (a), 1 (b) and 2 (a)	159	100	8	1	298	126	98	66	541	326
(6)							-				
	g (a) known to have received prenous treatment at other Centres for the same infection	-	1	1	1	4	1	1	1	10	21
	Number of eases which ceased to attend— (a) before completing the first course of treatment for		-	1	1	1	1	1	1	-	-
			1	1	1	1	1	1	1	01	1
	(c) after completion of treatment, but before final tests as to cure of	9	80	1	1	4	00	111	1	5.7	11
-	Number of cases transferred to other Treatment Centres after treatment for	6	+	1	1	81	0	1	01	31	15
	Number of cases discharged after completion of treatment and observation for	10	10	1	1	94	18	40	04	36	63
	Number of cases which, at the end of the year under report, were under treatment or observation for	186	98	01	-	218	16	10	15	391	285
	TOTAL Items 8, 4, 5 and 6	159	100	60	1	293	126	98	66	541	326
	Out-patient attendances— (a) For individual attention by the Medical Officer.	1155	8888	35	9	1787	12 12 8	238	202	3215	1762
	(b) For intermediate treatment, e.g., irrigation, dressings, etc.	. 117	919	150	œ	2261	3370	130	2500	2523	4820
	TOTAL ATTENDANCES	1272	1742	47	14	1021	4098	868	728	5738	6582
	Aggregate number of "In-patient days" of treatment given to persons who were suffering from.	439	47.1		t-	139	620	7.8	300	656	1398
						For	For detection	Jo 1		H. H.	For
	Doctor Commence				Spirochetes.	etes.	Gonococci,		Other Organisms.	Reac	Reaction.
oi .	Examinations or rathological material .  (a) Specimens which were examined at, and by the Medical Officer of the Twatment Centre.	and by t	he Medica	1 Officer			No	No record kept.	ept		
	(b) Specimens from persons attending at the Treatment Centre which were sent for examination to an approved laboratory	at the	Treatment proved la	. Centre boratory	-		873 Smears 38 Urines 11 Cultures	s 2 Pu	1 Urine Culture 2 Pus. 1 Van den		4 C.S.F.'s 427 Wassermann



## TABLE IX (Continued).—VENEREAL DISEASES.

Statement showing the services rendered at the Treatment Centre during the year, classified according to the area in which the patients resided.

TOTAL.		7.5	63	185	101	814	12320	2054	1121	870	Spirellen	injections of two months make total of east two months of secondary ver a period of ver a period of Terentary injection. Terentary small doses KI for some	for at odic 12 ocative us and rostate, of G.ci.
Southport.		65	01	109	93	269	11295	1812	994	849	Trepol, S	Hg or Bismostol (each injection=1 grm.). One month on Mist. KI; two months on the gir the form of pills. Then a second course of arsenied compounds total of a grms. This is followed by KI and Hg for three months. Periodic exams, and Wassermann tests, and continuance of Hg extending over 2 years. Secondary and LATE PRIMARY. Some course as above except 3 courses are given over a period of 16 months independently of what Wassermann reaction shows—a total of 12 grms. of arsenobenzol compounds. Alternating with Hg by the mouth, or by injection, Patients are then kept under observation (when possible) for two years. Therraray And Palacius are then kept under observation (when possible) for two years. Therraray And Palacius are treated with Silber Salvarsan in small doese extending over a long period, weekly injections for 3 or 4 months then KI for some months, then the Silber Salvarsan course repeated.	Syphilis. After treatment and being under observation for at least 2 years, more frequently 3 years, absence of all clinical manifestations, and negative tests for at least 12 months, after provocative tests.  Sorr Chancer. All sores healed. Under observation, examinations, and periodic 12 months tests to avoid possibility of Syphilis.  GONORHIGA.—I. FERALES. Examinations, Cultures, and smears taken and provocative tests given every two months after completion of treatment for 12 months and longer if possible. 2. Malles, Discharges ceased, smears from follicles, prostate, vesicles, and urine deposits before and after provocative tests show absence of Gen.
Lancashire		00	-	21	*	3.5	116	118	123	16	. Neo co Khars.	grams, 1 m Mist. 1 m Mist. 1 his. Periver 2 ye as are given a ye hows—a couth, for two y Salvarsu months t	r at leas and negr inations, ars taken ent for s from f ests show
Nancheste		1		1	01	80	51	113	1	1	phan—N	potal of 4 month o se of ars nee mont ending o ending o ty 3 cours reaction s Ig by the possible) th Siber or 3 or 4	ration for estations, ion, exan , and sme of treatm ed, smean
.urgiW		-		1	1	01	10	11	80		san 1 gr Khar Su	nds to a no.). One cond country Hg for the Hg extended cove excepsermann ug with I on (when eated wijections for repeated	er observat observat observat observat obilis. Cultures, npletion rges ceasafter prov
Southampt		1		i	1	1	21	1	1	1	N.A.B. 45-75; Sulfarsenol, Silber Salvarsan 1 gr.—3 grm. Neo Trepol, Stabilarsan, Bismuth Salts, and Bismostol, Khar Sulphan—Neo Khars.	Hg or Bismostol (each injection=1 grm.). One month on Mist. KI; on Hg in the form of pills. Then a second course of arsenical compound in Hg in the form of pills. Then a second course of arsenical compoundation in the form of pills. Then a second course of arsenical compoundation in the pills is objected by KI and Hg for three months. Periodic Wassermann tests, and continuance of Hg extending over 2 years, and LATE PHANATY. Same course as above except 3 courses are given of 16 months independently of what Wassermann reaction shows—a total of arsenobenzol compounds. Alternating with Hg by the mouth, or Pathents are then kept under observation (when possible for two years Nan Pana-Syrumatic. Patients are treated with Silber Salvansan in extending over a long period, weekly injections for 3 or 4 months then months, then the Silber Salvarsan course repeated.	ILIS. After treatment and being under observation for at least 2 years, more frequently 3 years, absence of all chincal manifestations, and negative tests for at least 12 months, after provocative tests.  CLANSCER. All sores healed. Under observation, examinations, and periodic 12 months tests to avoid possibility of Syphiis.  ORDIGA.—I. FEMALES. Examinations, Cultures, and smears taken and provocative tests given every two months after completion of treatment for 12 months and longer if possible. 2. MALES. Discharges ceased, smears from follicles, prestate, vesicles, and unine deposits before and after provocative tests show absence of CR.
Bury.			1	1	1	1	1	1	1		nol, Silb	Arsenical h injectic pills. T wed by nd contin Same co lently of ounds. t under c Patier	After treatment and being under observation for at least 2 years, more leatly 3 years, absence of all clinical manifestations, and negative tests for at 12 months, after provocative tests.  NNCRE. All sores healed. Under observation, examinations, and periodic 12 has tests to avoid possibility of Syphilis.  GA.—1. FEMALES. Examinations, Cultures, and smears taken and provocative given every two months after completion of treatment for 12 months and r if possible, 2. MALES. Discharges cased, smears from follides, prostate, rif possible, 2. MALES. Discharges cased, smears from follides, prostate, les, and urine deposits before and after provocative tests show absence of GCa.
Blackpool.				1	1	1	ţ-	1	1		Sulfarse smuth Sa	Hg or Bismostol (each on Hg or Bismostol (each on Hg in the form of 4 gras. This is follow Wassermann tests, and Are Parakav. So I is months independed of arsenobenzol compo Patients are then kept Patients are then kept Arab Parakas are then kept extending over a long extending over a long months, then the Siben months, then the Siben	treatment years, absethis, after pr All sores I to avoid pr FEMALES, yeer two massible. 2. I urine depos
Liverpool.			1	01	1	01	41	l	1		45—75; arsan, Bi	Hg or Bismostol (ea on Hg or Bismostol (ea on Hg in the form of Agrass, This is fold Wassermann tests, a and Laxre Parakary. Of 16 months indeper of arsenobenzol com Patenia are then ke Axon Pakas, Syrumarn extending over a lon months, then the Sill	Sypuils. After treath frequently 3 years least 12 months, af months test to aw Goxonanca.—1. FEM tests given every longer if possible, vesicles, and urine vesicles, and urine
Wallasey.		I	1	1	1	1	21	1	1		N.A.B. Stabil	PRIMARY.  Hg or On Hg + grum  Wasser and L. of 16 1 of ars Patien AND Petition AND Petition  AND Pet	Syphilis frequest Soft Ch mon Gonoren tests longr
me of County or County Borough (or Country in the case of persons residing elsewhere than in England and Wales) to be inserted in these headings.	Number of cases from each area dealt with during the year for the first time and found to be suffering from :—	Syphilis	Soft Chancre	Gonorrhæa	Conditions other than venereal	TOTAL	Total number of attendances of all patients residing in each area	Aggregate number of "In-patient days" of all patients residing in each area	Number of doses 1. Out-patient Clinic of arsenobenzol	compounds given 2. In-patient Dept. to patients residing in each area.	Names of arsenobenzol compounds used in the treatment of syphilis and the usual initial doses.	Amount and kind of treatment usually administered to a case of syphilis of each of the types usually dealt with at the Treatment Centre.	Nature of tests applied in deciding as to discharge of patients referred to in Item 5 on previous page.
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(Signed) HENRY BARDSLEY, M.R.C.S., L.R.C.P., Medical Officer of the Treatment

Medical Officer of the Treatment Centre.

