## [Report 1929] / Medical Officer of Health and School Medical Officer of Health, Southport County Borough.

#### **Contributors**

Southport (England). County Borough Council.

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1929

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COUNTY BOROUGH



OF SOUTHPORT

# REPORT

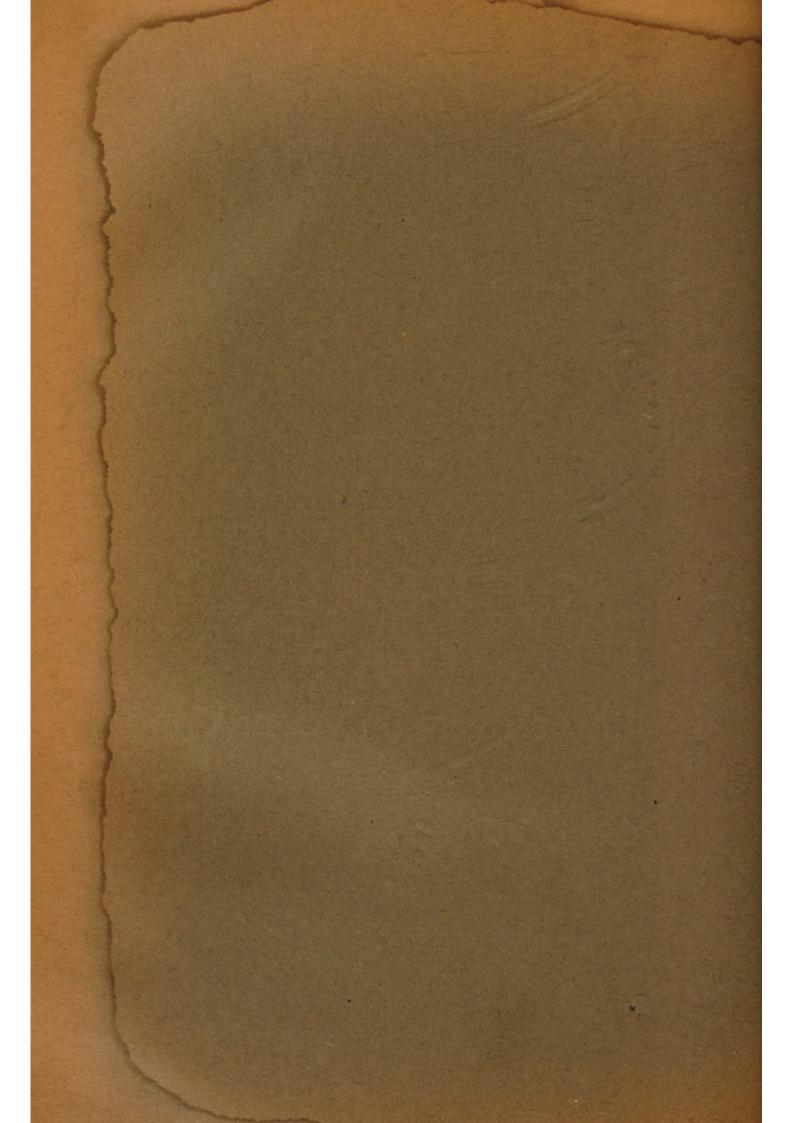
UPON THE

## Health and Sanitary Condition

OF THE

County Borough of Southport,

For the Year 1929.





OF SOUTHPORT.

# REPORT

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For the Year 1929.

F. Taylor & Co. (Blackpool), Ltd., Back Regent Road, Blackpool.

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#### THE HEALTH COMMITTEE.

THE WORSHIPFUL THE MAYOR (Alderman A. Tomlinson, 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.

Counc. J. R. BILLINGTON.

Counc. T. Ball.

Counc. Miss Hartley, J.P.

Counc. R. Hodge.

Counc. G. H. НІВВОТТ, J.P.

Counc. W. LEA.

Counc. Dr. E. W. LEWIS.

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

Counc. Miss RIMMER, J.P.

Counc. T. Scholes.

Counc. A. O. SMITH.

Counc. J. TAYLOR.

Counc. A. YATES.

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

MR. CHAIRMAN, LADIES, AND GENTLEMEN,

I beg to present my report for the year 1929. Perusal of the contents will supply some conception of the mass of work attempted and how much of it achieved; *inter alia*, attention may be directed to the attendances of various out-patients.

I am not content that enough is being done for the younger children of the awkward age of 2 to 5—too old for the Welfare Centres and too young for the School Medical Clinics. At this period three of the four common ailments of children are digging themselves in, namely Defective Eyesight, Enlarged Tonsils and Adenoids, and Defective Teeth, and the seeds of Orthopaedic troubles are being sown to cause crippling in later years. This will have to be tackled, though further strain on the staff and accommodation will be necessitated.

I am awaiting the result of the 1931 Census with curiosity. One was brought up in the ancient faith that a census was just a count; on the last occasion one had to sit and watch one estimate being changed to another by a few trifling thousands. Next year I trust that a "visitor" may be simply returned to the place where he habitually resides; the material for this artless method had been sufficiently provided in 1921; but it seems that the mind of the statistician moves, in a mysterious way, to supply some kind of office calculation instead of a simple numbering.

The foundation stone of the new Maternity Ward, ascribed to Miss Hartley's munificence, should be laid before very long.

For several years the work of the V.D. Department has been handicapped by the lack of first-class accommodation; the premises now in use, adapted from a temporary structure, have nevertheless enabled work of exceptional efficiency to be conducted. The new building, now in course of construction, will be worthy of what is going to be done in it.

It is hoped that the coming year will see some definite progress in Welfare Centre accommodation. Hampton Road and Hoghton Street Centres have been of the greatest possible value, but are becoming increasingly congested; and the lay-out is not adapted for our purpose.

The installation of the Kromayer Lamp for treatment of Lupus has been successful in the most gratifying manner; very resistive cases are being rapidly improved.

The extensions and advances that have taken place in Public Health administration during the past twenty years are nothing less than astonishing; and there is no slightest sign of a halt.

The Local Government Act of 1929 has been the subject of considerable attention during the year; it is hoped to remove the sick person entirely from the aegis of the old poor law, and to obliterate the last trace of its ancient stigma. The Southport Corporation Bill, of about 200 clauses, has also claimed its share.

The past winter, taken all round, has been the most troublesome in my experience; and the results will speak for themselves, if allowed a hearing.

The time is now past when the Health Report, giving as it does the details of the work of a department which year by year adds to its importance, can be passed by without careful study by members of the Council.

The activities of the Health Department are of such consequence to a leading Health Resort that every member of the Council, whether on the Health Committee or not, owes it to himself to gain a clear comprehension of what is done and of what is visualised for the future. The old order during which interest in this work has been left to two or three must give place to a new. I have no doubt that the community is beginning to appreciate the value of preventive medicine, and the electors will wish more and more to know what the policy of their representatives may be with respect to the conduct and furtherance of the many schemes designed to promote the health of themselves and their children.

I am.

Faithfully yours,

GEO. C. BARNES.

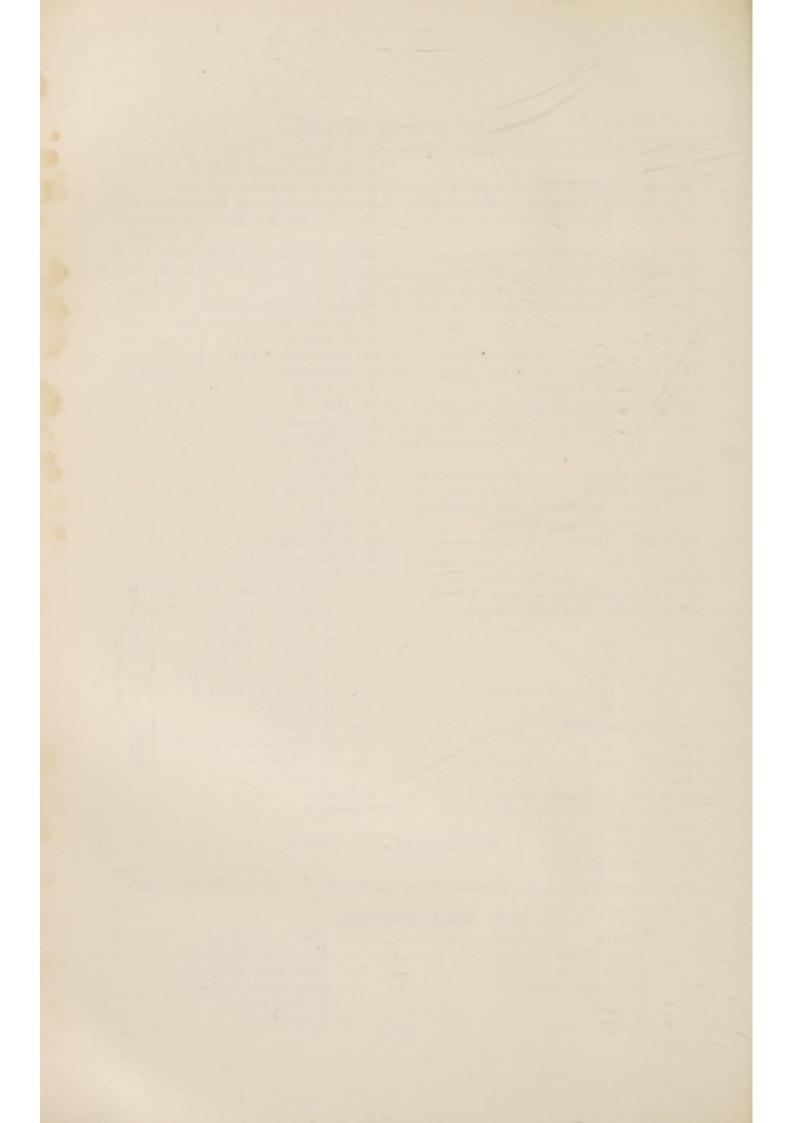
April 30th, 1930,

#### PUBLIC HEALTH OFFICERS.

| PUBLIC HE  | ALTH OFFICERS.   |
|--|--|
| Medical Officer & School Medical Of  | ficer G. C. Barnes, D.P.H.   |
| Deputy   | W. E. FitzGerald, D.P.H.   |
| Assistant Medical Officer of Health  | Bertha N. Butters, D.P.H.  |
| V.D. Medical Officer & Dermatologis  |  |
| Maternity Ward Obstetrician-in-Ch  |  |
| The control of the co | L.M. Dublin.   |
| Hon. Consultant Obstetrician   | Dr. Leith Murrary, 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 with   |
| Do   | W. Martland, L.D.S. Education  |
| Dental Mechanic  | R. Sanderson. Committee  |
| Chief Sanitary Inspector   | J. Peet (C.).  |
| District Sanitary Inspector  | W. Halsall.  |
| Do. 1  | 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 Infectiou  |  |
| 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   | , V. M. Willder (A.B.C.) , A. Bullen (B.C.) , E. Palmer (A.B.C.) , M. Lewis (A.B.C.) , A. Probert (A.B.C.)   |
| Do   | ,, E. Palmer (A.B.C.)  |
| Do   | ,, M. Lewis (A.B.C.) 5 8   |
| Do   | ,, (22.000)  |
| Do   | ,, G. M. Shenton (A.B.)  |
| Do   | ,, G. M. Shenton (A.B.)  |
| Do   | the state of the s |
| Dentist's Assistant  | Miss H. Rimmer.  |
| Clerk  | Miss H. Rimmer. ,, D. Illingworth. ,, G. Singleton.  |
| Do   |  |
| Do   | ,, L. Taylor.  |
| Caretaker, 2, Church Street  | T. Wright.   |
| Do. Slaughterhouses  | F. Beaton.   |
| Victoria Baths   |  |
|  | ndent : S. Hodson.   |
| Compton Road Baths   |  |
| A.—Trained Nurse. B.—Central Mic   | dwives Board. C.—Royal Sanitary Inst.  |
|  |  |
| NEW HALL   | HOSPITAL.  |
| Matron   | Miss S. Coulter.   |

|                | TANTA  | TTTTTT | IIODI | TTTTT. |                      |
|----------------|--------|--------|-------|--------|----------------------|
| Matron         | ****** | ****** |       | *****  | Miss S. Coulter.     |
| Home Sister    |        | *****  |       |        | Miss Elsie Fletcher. |
| Night Sister   |        |        |       |        | Miss Mary McCrory.   |
| Sanatorium Sis | ter    |        |       |        | Miss Annie Daley.    |
| Engineer       |        |        | ***** |        | T. Wolfenden.        |
| Porter         |        |        |       |        | J. Seddon.           |

5



## REPORT, 1929.

| Population at Census, 1911  Do. do. 1921  Do. (estimated by Reg. Genl.) | , middl  |         | 29      | 69,643<br>71,900<br>80,040 | 0      |         |
|---|----------|---------|---------|----------------------------|--------|---------|
| Area of Borough (Excluding Foresholders                                 | ore, 14, | 196 acı | res),   | 8,80                       | 4      |         |
|   | 1924     | 1925    | 1926    | 1927                       | 1928   | 1929    |
| Birth Rate  | 12.90    | 13.10   | 11.90   | 12.18                      | 11.54  | 11.07   |
| Academic Corrected Death Rate   | -        | 10.70   | 10.12   | 11.50                      | 11.17  | 12.14   |
| Death Rate, Zymotic Diseases  | 0.15     | 0.14    | 0.23    | 0.08                       | 0.20   | 0.17    |
| Infantile Death Rate  | 63       | 61      | 62.5    | 48                         | 75     | 72.5    |
| (For various other rates of previous                                    | years,   | see Tal | ble VII | I, and                     | Text i | nfra.). |

#### POPULATION.

The number of New Houses erected and completed during the year was about 250. The number of children attending Elementary Schools has at last shewn a definite increase during the last four years of about 228.

The Registrar General's estimate for the middle of 1928 was 79,290, and for the middle of 1929 was 80,040, which is adopted as a basis for the rates for 1929.

#### 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<br>granted during<br>1929. | rece  | No. of Persons in<br>receipt of Out-door Relief<br>Jan. 1, 1930. |       |       |       |  |  |  |
|---|-------|--|-------|-------|-------|--|--|--|
| £10,504                                     |       | 7  | 13    |       |       |  |  |  |
| Southport Infirmary :-                      | 1005  | 1000   | 1000  | 1000  | 1000  |  |  |  |
|   | 1925  | 1926   | 1927  | 1928  | 1929  |  |  |  |
| In-Patients—Total Treated                   | 1,468 | 1,336  | 1,562 | 1,648 | 1,517 |  |  |  |
| Out-Patients— do                            | 3,425 | 3,682  | 3,649 | 4,723 | 4,133 |  |  |  |

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 896 (19 less than last year) of which 470 were males and 426 females. The resulting Birth-rate is 11-07.

#### INFANTILE MORTALITY.

| Year | Total<br>Births | Legitimate<br>Births | Illegiti-<br>mate<br>Births | Total<br>Deaths | Total<br>Rates | Deaths<br>Legitimate | Rate<br>per 1000 | Deaths<br>Illegiti-<br>mate | Rate<br>per 1000 |
|------|-----------------|----------------------|-----------------------------|-----------------|----------------|----------------------|------------------|-----------------------------|------------------|
| 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                           | 138              |
| 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              |
| 1929 | 896             | 842                  | 54                          | 65              | 72.5           | 57                   | - 68             | 8                           | 148              |

#### DEATH-RATE.

The Death-rate for 1929, after deduction of non-residents registered in the District and the addition of residents not registered in the District. 14·32 per 1,000 per annum, has been attained by applying the number of Deaths, 1,146, to the Registrar-General's estimate of the population for the middle of the year, namely 80,040.

The number of deaths actually registered in the Borough and the Isolation Hospitals was 1,073, of which 500 were males and 573 females. These figures give a gross Death-rate of 13.41 per 1,000 of the population.

If, however, from the above 1,073 deaths are deducted 86 deaths of visitors who came into the town in a precarious state of health, and died after only a short stay here, there remain 987 deaths; from which, by calculation, a "local" death-rate of 12·33 per 1,000 is obtained.

The deaths of persons over 65 numbered 638, being 56 per cent. of the total deaths. The death-rate, 14·32, may be compared with the average death-rate 13·12 for the five years 1925 to 1929 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, 14·32, for 1929, as found above, it should be noted that correction has only been made by deduction of deaths of nonresidents 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 12·14 is attained.

Considerably more than half of the deaths occurred at the age of 65 and upwards, and considerably more than a quarter (27.9%) 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.

The increase in the corrected death-rate is attributable to the severity of the weather during the first quarter of the year, associated with some Epidemic Influenza. These conditions asserted themselves in most other parts of the country with far more relative destruction of life; taking into account the well-recognised effect of cold on the aged and infirm, and remembering the age constitution of the community, we must be considered to have escaped remarkably well. It may be noted that during the quarter referred to the Death-rate for the country reached the proportion attained during the remarkably fatal epidemic of Influenza of 1918/19.

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

|      | Under<br>1 | 1—2 | 2-5 | 5—15 | 15—25 | 25—45 | 45—65 | 65 and<br>Upwards |
|------|------------|-----|-----|------|-------|-------|-------|-------------------|
| 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  | 52.3              |
| 1926 | 6.2        | 0.7 | 1.2 | 1.4  | 2.1   | 9.1   | 25.7  | 53.6              |
| 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              |
| 1929 | 5.7        | 0.8 | 0.6 | 1.6  | 2.6   | 8.5   | 24.5  | 55.7              |

#### ZYMOTIC DEATH-RATE.

Fourteen deaths, due respectively to Diphtheria (3), Measles (3), Whooping Cough (1), Diarrhoea (4), Enteric Fever (1) and Scarlet Fever (2), gave a corrected Zymotic Death-rate of 0·17 per 1,000. This is a very satisfactory Zymotic Death-rate. Probably some, if not all, of the cases of Infantile Diarrhoea were not of an epidemic nature.

#### CANCER, MALIGNANT DISEASE.

The number of deaths was 144—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<br>Up |
|-------------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-----------|
| Valvular Disease        | 77     | -     | 2     | 2     | 5     | 13    | 28    | 18    | 9     | -      | -         |
| Endocarditis            | 7      | 1     | -     | -     | -     | -     | 2     | 2     | 2     | -      | -         |
| Acute Dilation          | 4      | -     | -     | -     | -     | -     | 1     | 2     | 1     | -      | -         |
| Myocardial Degeneration | 44     | -     | 1     | -     | -     | 4     | 6     | 17    | 15    | 1      | -         |
| Myocarditis             | 23     | _     | 1     | -     | -     | -     | 9     | 9     | 4     | -      | -         |
| Hypertrophy             | 1      | -     | -     | -     | 1     | -     | -     | -     | -     | -      | -         |
| Fatty Degeneration      | 4      | -     | -     | -     | -     | -     | -     | 4     | -     | -      | -         |
| Heart Disease           | 7      | -     | -     | -     | -     | 2     | 5     | -     | -     | -      | -         |
| Myocardial Disease      | 2      | -     | -     | -     | -     | -     | -     | 2     | -     | -      | -         |
| Totals                  | 169    | 1     | 4     | 2     | 6     | 19    | 51    | 54    | 31    | 1      | -         |

There would appear to be a vogue for certifying deaths at the higher ages as of Cardiac causeation so that the Death-rate from Cardiac Disease is higher than it would otherwise be. My own opinion is that the true incidence of Cardiac morbidity is low in this area.

TABLE X.—Birth-rate, Death-rate, and Analysis of Mortality during the year 1929.

(Provisional figures. The rates for England and Wales and Southport have been calculated on a population estimated to the middle of 1929, but those for the other towns have been calculated on populations estimated to the middle of 1928. 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).

|  |                 | Uncertified Causes of Death.                     | 6-0               | 0-5  | 1.0                       | 0.0    | 77.0      |
|--|-----------------|--|-------------------|--|---------------------------|--------|-----------|
| ENTAGE<br>DEATHS.                      | M. q            | Coroner after<br>No Inques                       | 9-1               | 1.9  | 1.0                       | 3.7    | 0.18      |
| PERCENTAGE<br>TOTAL DEATH              |                 | Inquest Cas                                      | 6-1               | 5.8  | 5-4                       | 6.8    | 4-01      |
| OF TO                                  | 1               | Registered<br>Medical<br>Practitione             | 91.5 6            | 8-16   | 95.6                      | 89.5   | 93-37 4   |
| 0:                                     | Λ               | year.  | -                 |  |                           |        | _         |
| PER 1000<br>BIRTHS,.                   |                 | Total Deati<br>under One                         | 7.4               | 79   | 69                        | 20     | 72.5      |
| RATE P                                 | si              | Diarrhoea<br>and Enterit<br>(under<br>Two years) | 8.1               | 10-9   | 6-9                       | 10-7   | 4.5       |
|  |                 | Violence.  | 0-55              | 0.50   | 0-45                      | 0.56   | 0.36      |
| N.                                     |                 | Influenza.                                       | 0.74              | 92-0   | 0.71                      | 69-0   | 0.72      |
| PULATIC                                |                 | Diphtheria.                                      | 80-0              | 60-0   | 20-0                      | 80-0   | 0.04      |
| 1,000 Pc                               | ·ų2             | Whooping<br>Con                                  | 0-15              | 0-19   | 0.15                      | 0.56   | 0.01      |
| TE PER                                 |                 | Scarlet Fever.                                   | 0-02              | 0-05   | 0-05                      | 0-05   | 0-05      |
| ANNUAL DEATH-RATE PER 1,000 POPULATION |                 | Measles.   | 80-0              | 0-12   | 90-0                      | 0-04   | 0-04      |
| NUAL D                                 |                 | .xoq-llam8                                       | 00-0              | 00-0   | 00-0                      | 00-0   | 00-0      |
| AN                                     |                 | Enteric Fever                                    | 0.01              | 0-01   | 0.01                      | 0-01   | 0.01      |
|  |                 | All  | 13-4              | 13-7   | 12.3                      | 13.8   | 12:14     |
| ,000<br>AL                             | N.              | Still-births.                                    | 99-0              | 69-0   | 0.71                      | 0.53   | 29-0      |
| RATE<br>per 1,000<br>TOTAL             | POPUL.<br>TION. | Live Births                                      | 16.3              | 16-6   | 16-0                      | 15.7   | 11-07     |
|  |                 | 1  | England and Wales | 107 County Boroughs and Great Towns,<br>including London | Population 20,000—50,000) | London | Southport |

\* By the extension of Uxbridge U.D. on the 1st April, 1929, the number of Smaller Towns was increased to 157.

## General Housing Conditions.

#### HOUSING ACCOMMODATION.

Two hundred and fifty 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 water taken under crucial conditions showed a state of purity which is altogether exceptional.

During the winter months (November to March) the First 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 was 124,801.

There are also 45 Private slipper baths, a complete suite of 24 being allotted for Ladies, and 21 for Gentlemen. 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 was 18,168.

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 methods of coke furnaces being entirely dispensed with. Number of bathers during the year was 3,437.

#### CANNING ROAD BATHS.

Opened in 1903, in a working class district, these baths serve a very useful purpose. For the small sum of twopence a private slipper bath may be taken, a penny extra is charged either for soap or towel. The number of bathers using these baths during the year was 5,221.

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. The number of bathers using the slipper baths during the year was 4,977.

#### SEA BATHING LAKE.

Southport was the first Municipality to provide, many years ago, a large open-air sea bathing lake for mixed bathing. In keeping, however, with the town's progressive policy, a magnificent new lake was opened in 1928. The new lake, which is situated in Prince's Park, adjoining the seashore, cost £70,000 and is most luxuriously appointed. The lake itself takes the form of an oval, 330 feet at its greatest length, with a maximum width of 212 feet. It is filled with filtered sea water and has a water surface area of over 50,000 square feet, surrounded with grass borders.

The sea water with which the lake is filled first undergoes a period of settlement in underground concrete tanks so that any mud or suspended matter is deposited. It then flows from the settling tanks into three large filters, where it passes through fine gravel and sand. After leaving the filters it is dosed with the necessary amount of chlorine so as completely to sterilise the water; and is then aerated by means of blowers and by passing the water over cascades and through sprays into the lake. This process of filtration proceeds continuously so that the whole of the water in the lake is turned through the filters and treated at least once a day. A proportion of fresh sea water is added every morning after being treated.

There are terraces with seating accommodation for several thousands of spectators, a fine cafe, and an upper terrace promenade connecting the two-storey dressing pavilions at the south and north ends of the lake for ladies and gentlemen respectively. There is dressing accommodation for about 1,000 bathers. In front of the cafe there is a pergola carried on white pillars, and leading down to the lake there is a wide artificial stone stairway, on either side of which clear sea water falls in beautiful cascades over limestone rocks on its way to the lake.

During the two seasons it has been open it has been immensely popular both with bathers and spectators.

The lake is open daily from May to the end of September. Sun bathing at the lake has been so exceedingly well favoured that special provision has now been made for this.

## Infectious Diseases.

| DISEASE.       |      | NOTIFICATIONS. |      |      |      |      | DEATHS. |      |      |      | CASE MORTALITY. |      |      |      |      |
|----------------|------|----------------|------|------|------|------|---------|------|------|------|-----------------|------|------|------|------|
| Year           | 1925 | 1926           | 1927 | 1928 | 1929 | 1925 | 1926    | 1927 | 1928 | 1929 | 1925            | 1926 | 1927 | 1928 | 192  |
| nteric Fever   | 4    | 5              | 7    | 1    | 1    | -    | 1       | 1    | -    | 1    | -               | 20.0 | 14.3 | -    | 100- |
| earlet Fever   | 132  | 132            | 144  | 123  | 234  | -    | 1       | -    | -    | 2    | -               | 0.76 | -    | -    | 0.8  |
| iphtheria      | 44   | 35             | 49   | 71   | 168  | 2    | 1       | -    | 1    | 3    | 4.54            | 2.86 | -    | 1.41 | 1.7  |
| easles *       | 672  | 887            | 401  | 674  | 581  | 3    | 5       | 2    | 2    | 3    | 0.45            | 0.56 | 0.50 | 0.30 | 0.5  |
| hooping Cough* | 240  | 418            | 118  | 310  | 149  | 2    | 5       | 3    | 9    | 1    | 0.83            | 1.03 | 2.54 | 2.90 | 0.6  |

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

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

|                   | Small-pox | Scarlet<br>Fever | Diphtheria | Enteric | Puerperal | Puerperal<br>Pyrexia | Erysipelas |
|-------------------|-----------|------------------|------------|---------|-----------|----------------------|------------|
| England and Wales | 0.28      | 3.05             | 1.59       | 0.07    | 0.06      | 0.14                 | 0.45       |
| Southport         | 0.00      | 2.92             | 2.10       | 0.01    | 0.04      | 0.07                 | 0.67       |

#### DIPHTHERIA.

Cases-168

Deaths-3

Case Mortality-1.79

Many of the cases were of the gravest type, and the Mortality therefore is remarkably low.

WHOOPING COUGH.

Cases-149.

Mild type.

Deaths—1.

Cases—581.

MEASLES.

Mild type.

Deaths-3.

### Venereal Disease.

|      |   | Out-Patient<br>Attendances. | In-Patient Days. |
|------|---|-----------------------------|------------------|
| 1922 | *************************************** | 11,130                      | <br>2,144        |
| 1923 |   | 8,883                       | <br>1,327        |
| 1924 |   | 8,436                       | <br>1,314        |
| 1925 |   | 9,506                       | <br>1,476        |
| 1926 |   | 12,871                      | <br>1,976        |
| 1927 |   | 13,299                      | <br>2,456        |
| 1928 |   | 12,320                      | <br>2,054        |
| 1929 |   | 10,571                      | <br>1,557        |

The number of new cases, 245, shows a decrease on the previous year. This is due to separating Skin cases from certain cases previously classified as non-venereal cases and possibly to the present Industrial depression; and increased sobriety of the population as a whole has a considerable effect on the prevalence of Venereal Disease.

The total number of attendances in the Out-patient Department for this year is 10,571, a decrease of 1,749. This decrease is likewise due partly to the above cause, and to the fact that females suffering from latent Gonorrhoeal infection do not always attend until treatment is completed.

During the year we have had six births in the Department; owing to the ante-natal treatment received by the mothers the children have shown no signs or symptoms of Venereal Disease. In one case where no antenatal treatment had been adopted, the infant at birth showed all manifestations of Congenital Syphilis.

There have been five cases of Ophthalmia Neonatorum treated, all of which cleared up satisfactorily with no impairment to eyesight.

The In-patient days show a decrease of 497, the total being 1,557 as compared with 2,054 the previous year.

I still hold the opinion that there are many cases of latent and sub-acute Venereal Diseases in the neighbourhood who are not receiving treatment, and I feel strongly that propaganda such as we have had in the past in the form of Health Lectures would do much to bring to light many of these hidden cases.

A great deal of work has been done in the treatment of Non-Venereal Skin Disease. There is a considerable increase both in Out-patient attendances and In-patient days with respect to these.

#### Skin (Non-Venereal) Cases.

| New Cases                  | 48    |
|----------------------------|-------|
| In-patients                | 42    |
| In-patient days            | 1,000 |
| Out-patient Attendances    | 1,748 |
| (Of these, under 16 years) | 923   |

#### HENRY BARDSLEY, M.R.C.S.,

Director of the Skin and Genito-Urinary Departments.

## 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 |   | 73.6   |
| 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 | *************************************** | 61.3   |
| 1929 |   | 54.8 |   | 50.2   |

## Tuberculosis.

This branch of the work has continued steadily and the results of the labours of this department are increasingly satisfactory.

A table is given showing the condition of patients on discharge in 1928 and their condition again a year later. It will be seen that the number of early cases is very small indeed and that the majority of patients admitted are in the intermediate and advanced stages of the disease.

The Ministry have expressed the view that the very early case should be sent to larger Sanatoria where there is a Resident Medical Officer, and where also it is claimed that there are greater facilities for progress during the later stages of treatment when a patient is expected to undertake work involving varying degrees of energy according to his fitness or otherwise. It is said that in a small Sanatorium it is not possible to obtain what is termed an "atmosphere" of work, and that this lack of atmosphere tends to deter a patient from doing what he may be able to fit himself for his life outside the Institution.

These arguments may be generally sound but at our own Sanatorium we have never had any difficulty in persuading patients to undergo this part of the treatment. In fact in some instances it is necessary to curtail their activities and zeal for work. Personally it seems to me that our after-results are if anything better now than when our cases were being sent away. We have greater control over them, and seeing the patient during all the stages of his treatment gives one a far better idea of his ability to stand the necessary strain of after Sanatorium life than if he is lost to us for some months.

There is enough work at the Sanatorium and in the grounds to occupy all those who are fitted to do it. The only cases which would possibly benefit by treatment elsewhere might be those who were desirous of changing their mode of livelihood owing to unsuitability for the complaint. In these cases, and they are very few, I agree that admission to a training colony might be a good move, though the results of training colonies have not been too successful in the past. Men trained in new work have failed to make good on discharge, and have drifted back to their old employment unsuitable as it may be.

We have taken in a considerable number of observation cases and the Sanatorium is well planned for this work.

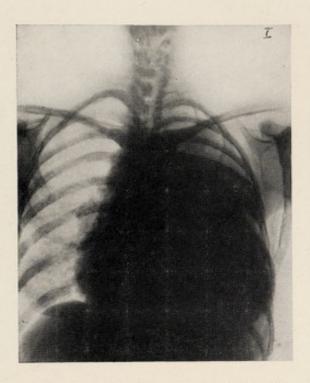
The X-ray Department is fulfilling its aim and is certainly a very valuable asset from the point of view of the Tuberculosis scheme. Some radiographs are shown in this respect and explanatory notes are given with them.

Four cases are receiving Artificial Pneumothorax treatment; one male and three females. Only in one of these cases has complete collapse been attained. In the others the presence of adhesions has prevented this. In one case a condition of obliterative pleurisy commenced, and has increased to such an extent that at least one third of the lung is fixed to the right dome of the diaphragm and the su rounding parietal pleura. In order to prevent movement in this portion of the right lung, arrangements were made with Mr. de Lisle Crawford of Wallasey to perform the operation of Phrenic Evulsion which he did, and the result is that very definite control of movement of the right base has been obtained.

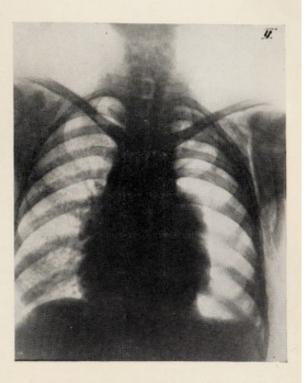
Cases of rickets appear in this district from time to time, and by the use of X-rays an advance has been made in the diagnosis and treatment of these.

An X-ray plate of the bone ends is now made in every case of suspected rickets. This enables one, not only to make a definite diagnosis at a very early stage before bony deformity has occurred, but also to prescribe the treatment best suited to the condition, whether progressive, healing, or healed. By subsequent photographs, response to treatment can be watched and the use of anti-rachitic agents,—fresh air, artificial sunlight, cod liver oil, and the like, increased or discontinued accordingly, so that, with a minimum expense, the best results possible are attained.

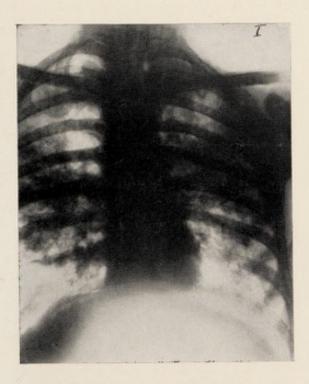
It is hoped that radiograms illustrating this branch of the work will be available for insertion in my next report.



A.—Case showing a massive pleural effusion on the left side following spontaneous pneumothorax.

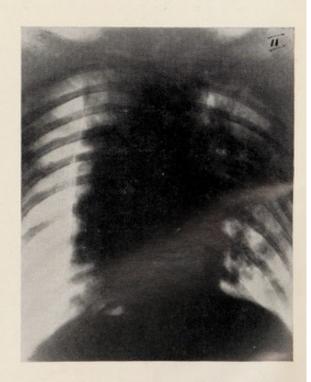


B.—The same case after replacement of the fluid by air. The lung is collapsed.

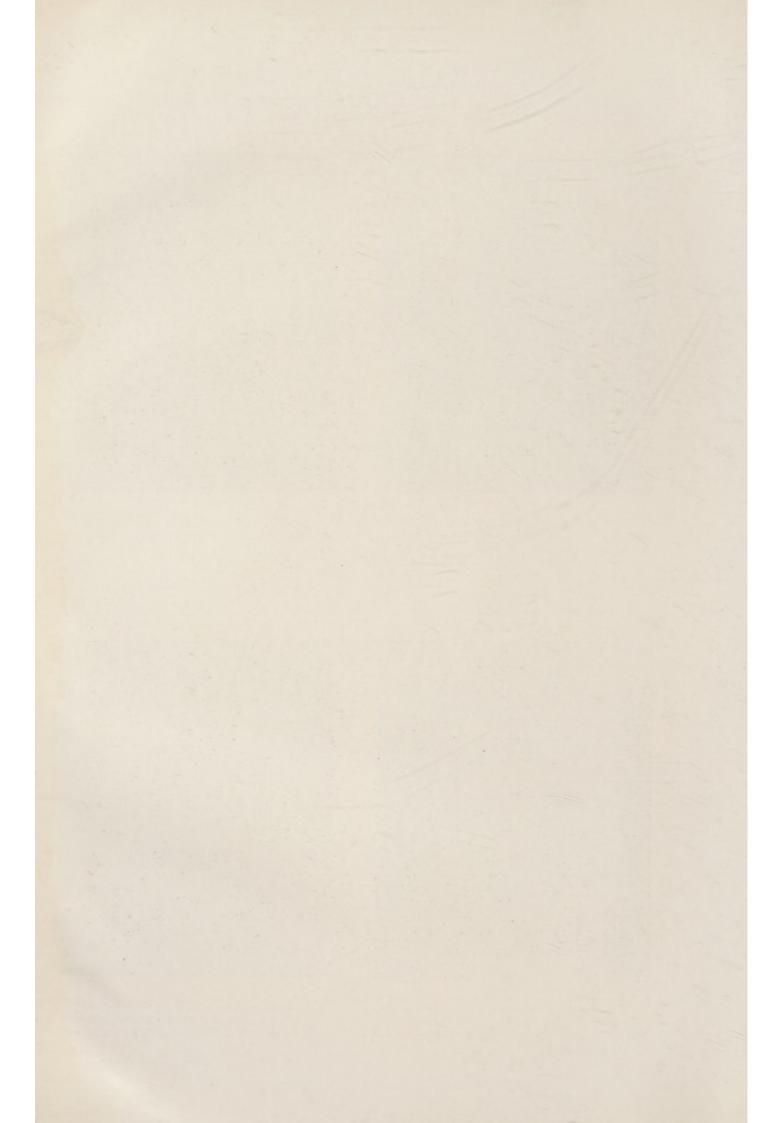


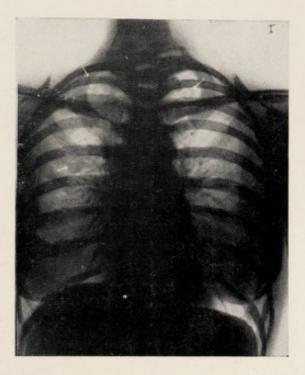
C.—Showing the appearances in an advanced case of Pulmonary Tuberculosis.

This radiograph was taken a few days after admission.



D.—The same case a week later showing a spontaneous pneumothorax on the right side. The lung is partially collapsed

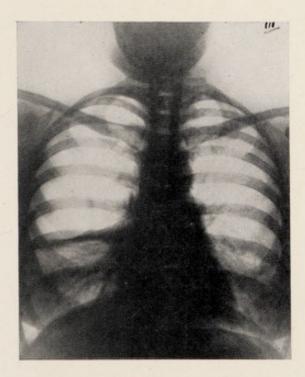




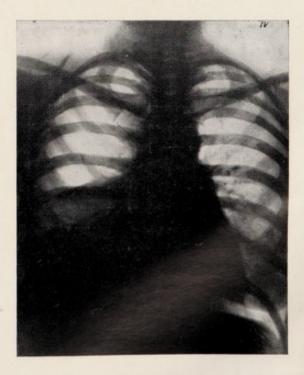
 Radiograph of a case of Pulmonary Tuberculosis in a female aged 27 years.
 The arrows point to the more definite foci of the disease.



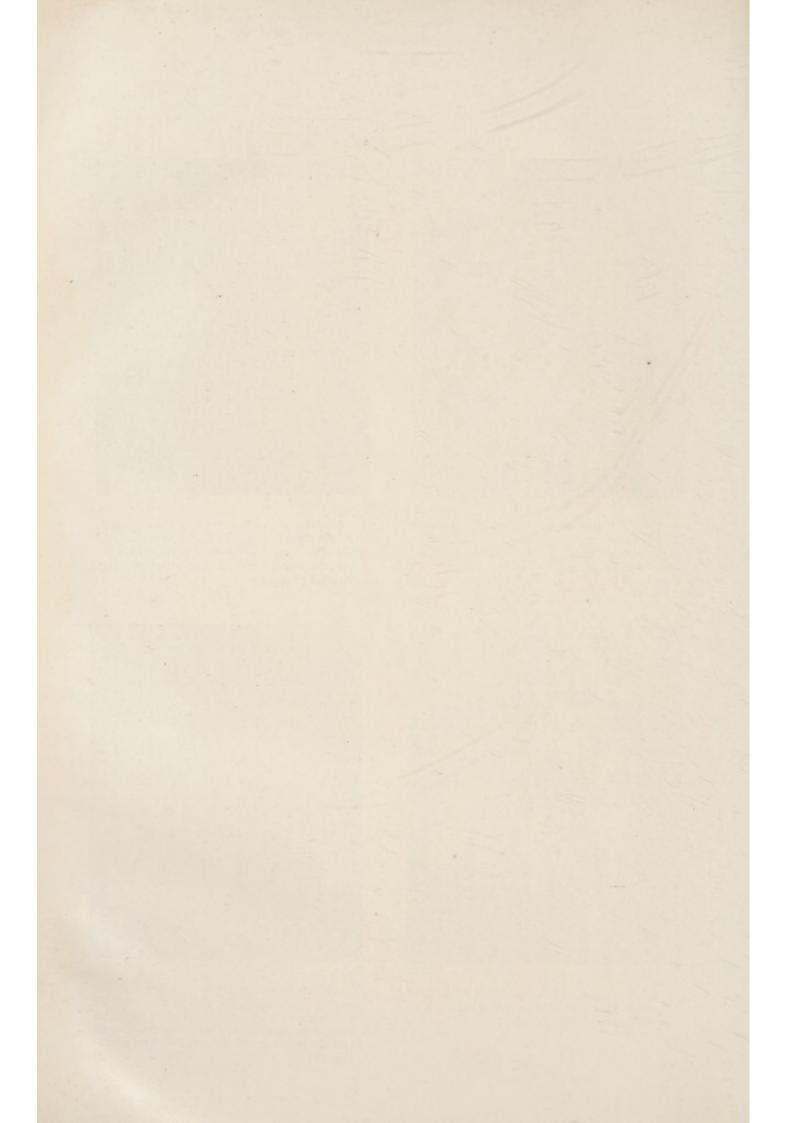
2.—The same case after two years' of Artificial Pneumothorax treatment. The right base has become firmly fixed to the diaphragm and the surrounding parietal pleura.



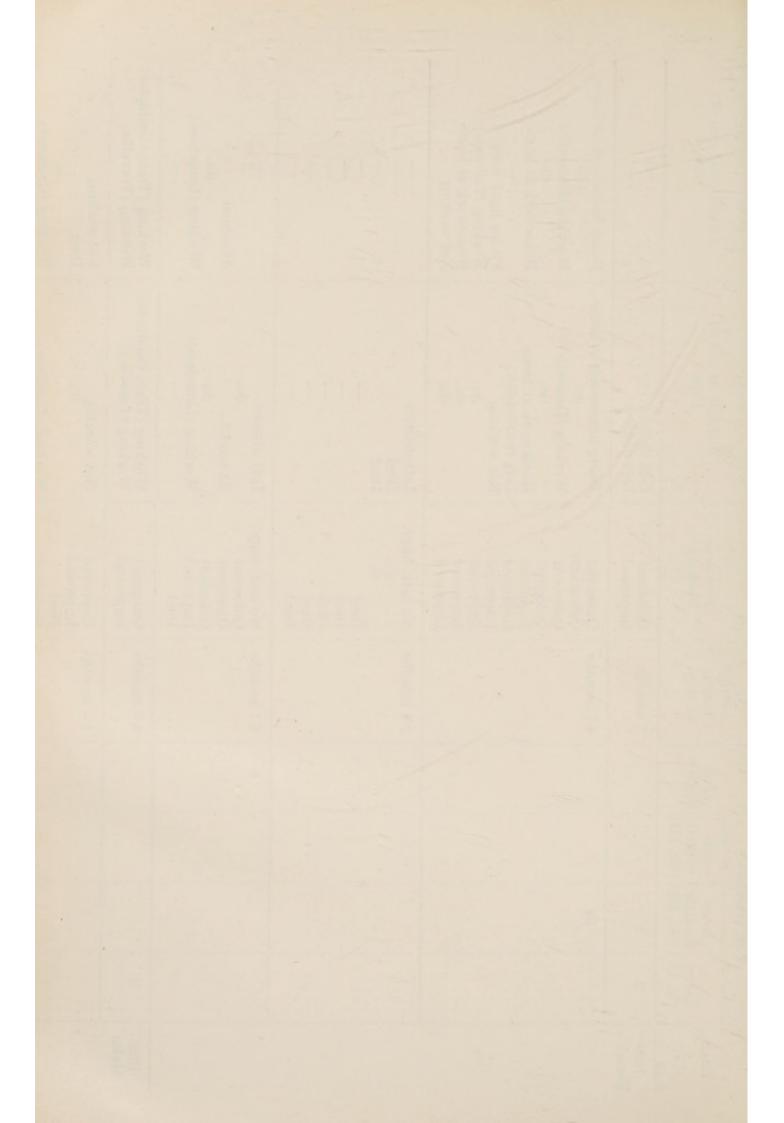
Six months later showing an extension of the obliterative pleurisy and a greater area of lung fixed.



4.—The same case a week after Phrenic evulsion, showing the rise in the level of the right dome of the diaphragm and partial collapse of the lung above—due to [ the continuance of the artificial pneumothorax.



| 20  | 6 .     | 10 ar         | (Ge-3III)        | (Gr. I) (Gr. III) (Gr. III) 13 | 2 months<br>4.7 months   | Quiescent<br>Improved<br>Quiescent<br>Quiescent  | Left district<br>Left district<br>Doing bousework at home<br>do.  | Doing house   |
|-----|---------|---------------|------------------|--------------------------------|--------------------------|--|---|---|
|     |         |               |                  |                                | At mostly                | Quiescent<br>Quiescent<br>Improved<br>Improved<br>Improved<br>Improved<br>Improved   | Working (Domestie)  do.  do.  do.  Left the district  Not working  do.  do.   | Working (Domesti<br>do.<br>Housewerk at hon<br>For for light work<br>Working (Tailores<br>Not working   |
|     |         |               |                  |                                |                          | Deed de   | Deed<br>Deed  |   |
|     |         |               |                  | 0                              | 4-1 months               | · adu  |   | At school do. Working (Laundre  |
|     | 01      |               |                  |                                | 4-7 months               |  | Working (Traveller)   | Working (Traveller)   |
|     |         | 10            |                  |                                | 4-5 menths               | Improved<br>Improved<br>Died<br>Quiescent<br>No mat, impr.   |   | Not working<br>Died<br>Working (Gardener)<br>Re-admitted—Died   |
|     |         |               | ×                |                                | 25 months                | No mat, impr.<br>Died<br>Died<br>Died<br>Died<br>Died<br>Died<br>Inproved  |   | Died  |
|     |         |               |                  | 2                              | 2-5 months               | Quiescent<br>Quiescent<br>Quiescent<br>Quiescent<br>Quiescent<br>Quiescent<br>No mat. impr.<br>Improved<br>Improved                          | Working (Errand boy) Working (Shopkeeper) At school At school At school Working Working Working (Serk) Working (Serk) Working (Aster body build'r Not working Working (Noter body build'r Not working | Working (Errand boy) Working (Shopkeeper) I At school Working At school At school Working (Gest) Working (Motes body bui Escalmitted to San. Working (Errand boy) |
| 12. | om-Pule | Nen-Pulmenary | Benes<br>Other o | Benes & Joints<br>Other organs | 6-8 months<br>-25 months |  | Not working<br>At school  | Not working<br>At school  |
|     |         |               |                  |                                |                          | Na   |   |   |
|     | -       |               |                  |                                | 4.8 months               | Improved   |   | Honsework   |
|     |         | 9             |                  |                                | 4-8 months               | Improved Improved Improved Improved Improved Improved Improved No mat impr. |   | Working (Domestic) Homework Bousehold tubes Not working Died Not working Not working Not working Not working Not working  |
|     |         |               | 10               |                                | 4-8 months               | No mat. impr.<br>Died<br>Died<br>Improved<br>Quiescent   |   | Not working<br>Not working<br>Not working   |
|     |         |               |                  | 1-                             | 6-1 months               | Improved Improved Quiescent Quiescent Quiescent Quiescent Quiescent No mat, impr.  |   | Household duties<br>At school<br>Household duties<br>At school<br>Working (Domest<br>Not working  |
|     | 01      |               | 1                |                                | 1-5 menths               | No mat. impr.<br>No mat. impr.   |   | Not working<br>Re-admitted  |
|     |         | =             |                  |                                | 6-1 menths               | Improved<br>Improved<br>Improved<br>Improved<br>Improved<br>No mat, impr.<br>No mat, impr.<br>No nat, impr.<br>Died<br>Died<br>Died          |   | Working (Motor<br>Not working<br>Left district<br>Re-admitted<br>Not working<br>Left district<br>Not working<br>Ded<br>Working (Labor                             |
|     |         |               | 0                |                                | 3-1 months               | No mat. impe. Died Died Died Limpeoved Improved  |   | Died<br>Not workii<br>Working (   |
|     |         |               |                  |                                | 3.3 months               | Quiescent<br>Quiescent<br>Quiescent<br>Quiescent<br>Quiescent<br>Quiescent<br>Quiescent<br>Dod<br>Improved                                   |   | Left the d<br>Working<br>Working<br>Working<br>Working<br>Re-admitt   |
| 100 | Non-Pul | I             | Bones            | & Joints                       | 7-3 months               | Removed to<br>Ormskirk   |   | Died  |
|     |         | ı             |                  |                                |                          |  |   |   |



| Cases notified :- |         |       | Non-     |     |        |
|-------------------|---------|-------|----------|-----|--------|
|                   | Pulmona | ry. I | Pulmonar | ry. | Total. |
| Males             | 26      |       | 9        |     | 35     |
| Females           | 32      |       | 12       |     | 44     |
|                   | _       |       |          |     | -      |
|                   | 58      |       | 21       |     | 79     |
|                   | -       |       | and a    |     | _      |

Duplicate notifications excluded.

#### DISPENSARY.

| Tuberculosis cases: 1st visits                                  | 71    |
|---|-------|
| Re-visits   | 1.626 |
| Contacts visited.   | 4.387 |
|   |       |
| Contacts examined by Tuberculosis Officer: 1st visits           | 39    |
| Re-visits   | 22    |
| Clinical examinations by Tuberculosis Officer: 1st examinations | 103   |
| Re-examinations   | 469   |
|   |       |
| Clinical examinations by Consulting Officer                     | 49    |
| Patients seen by Health Visitor at Dispensary                   | 290   |
| Hours in Dispensary   | 286   |
| Tours in Dispensary   |       |
| Total visits to Dispensary                                      | 911   |
| Individual Patients attending Dispensary                        | 315   |
| Contacts  |       |
| ,, Contacts ,, ,,   | 52    |

#### NEW CASES AND MORTALITY DURING 1929.

| Age    |        |        |        |      | New   | Cases. |         |      | De    | aths. |         |
|--------|--------|--------|--------|------|-------|--------|---------|------|-------|-------|---------|
| Period | S      |        |        | Pulr | n'ry. | Non-P  | ulm'ry. | Puli | n'ry. | Non-P | ulm'ry. |
|        |        |        |        | M.   | ř.    | M.     | F.      | M.   | ř.    | M.    | F.      |
| 0      |        |        |        | _    |       |        | _       | _    | _     | _     |         |
| 1      |        |        | ****** | _    | _     | 4      | 3       | _    | _     | 1     | 1       |
| 5      |        |        |        | 1    |       | 6      | 3       | 1    | _     | _     | 1       |
| 10     |        | ****** |        | _    | 2     | 1      | 2       | _    | _     | _     | 1       |
| 15     | ****** |        |        | 2    | 3     | 2      | 2       | 3    | 3     |       | _       |
| 20     |        |        |        | 1    | 6     | 1      | 2       | 2    | 5     | 1     | 2       |
| 25     | *****  |        | ****** | 5    | 8     | 1      |         | 6    | 7     |       | _       |
| 35     |        |        |        | 7    | 7     | -      | -       | 3    | 1     |       | _       |
| 45     | ****** | ****** | ****** | 10   | 5     |        | _       | 8    | Ĩ.    |       |         |
| 55     |        |        |        | 1    |       | _      | _       | 3    | _     |       | _       |
|        | nd upw |        | ****** | _    | 1     | _      | _       | 1    | _     | _     | _       |
|        | To     | tals   | *****  | 27   | 32    | 15     | 12      | 27   | 17    | 2     | 5       |

### TABLE I.

### TUBERCULOSIS SCHEME.

Return showing the work of the Dispensary (or Dispensaries) during the year1929.

|     |   | P  | ULMO         | NARY    |              | Non    | v-Pui   | MON                         | ARY              |                                    | Тота         | L.             |                 |             |                 |          |
|-----|---|--|--------------|---------|--------------|--------|---|-----------------------------|------------------|------------------------------------|--------------|----------------|-----------------|-------------|-----------------|----------|
|     | Diagnosis.  | Ad   | ults         | Chil    | dren         | Ad     | ults  | Chil                        | dren             | Ad                                 | ults         | Chi            | ldren           |             |                 |          |
|     |   | М.   | F.           | M.      | F.           | M.     | F.  | M.                          | F.               | M.                                 | F.           | M.             | F.              |             |                 |          |
| A   | New Cases examined during the year (excluding contacts):  (a) Definitely tuberculous  (b) Doubtfully tuberculous  (c) Non-tuberculous                       | 19   | 22<br>2<br>1 |         | -<br>1<br>-  | 1<br>_ | 3<br>1<br>—   | 8<br>_                      | 5 —              | 20<br>1<br>2                       | 25<br>3<br>1 | 8<br>3<br>1    | 5<br>1<br>—     | = =         | 58<br>8<br>4    | 70       |
| В.– | CONTACTS examined during the year :—  (a) Definitely tuberculous  (b) Doubtfully tuberculous  (c) Non-tuberculous   | 1 6  | 4<br>7<br>22 | 9<br>38 |              |        | =   | _<br>                       | =                | 1<br>6<br>15                       | 4<br>7<br>22 | -<br>11<br>38  | -<br>5<br>23    | =           | $5 \\ 29 \\ 98$ | 132      |
| C.— | Cases written off the Dispensary Register as  (a) Cured  (b) Diagnosis not confirmed or non-tuberculous (including cancellation of cases notified in error) | 4  | 5 25         | 36      | 23           | 1 2    | 4   | 10                          | 1                | 5                                  | 9 25         | 13             | 23              |             | 28              | 129      |
| D   | -Number of Persons on<br>Dispensary Register on Dec-<br>ember 31st :—<br>(a) Diagnosis completed  | 111  | 1            | 10      | 9            |        | 15  | 43                          | 31               | 121                                | 119          | 53             | 40              |             | 333             | - 369    |
| _   | (b) Diagnosis not completed   | 7  | 9            | 11      | 0            |        | 1   |                             |                  |                                    | 10           | 10             | 0               |             | 00)             |          |
| 1.  | Number of persons on Dis<br>Register on January 1st   | pens   | ary          | 5       | 359          |        |   | Trea                        | tmen             | t wa                               | s gi         | ven.           | om D<br>at o    | or in       | 1               | 12       |
| 2.  | Number of patients transferr<br>other areas and of "lost sig<br>cases returned  | ght o  | of ''        |         | 9            |        | 10.   | cal p                       | ractit<br>t Ho   | mes e                              | of Ap        |                |                 | medi<br>    |                 | 30<br>49 |
| 3.  | Number of patients transfe<br>other areas and cases "lost si  | rred<br>ght  | to<br>of "   |         | 35           | _      | 11.   |                             |                  |                                    |              | risits<br>Iome | by T            | uber        |                 | Nil.     |
| 4.  | Died during the year  |  |              |         | 37           | _      | 12.   | Heal                        | th V             | isitor                             | s to         | Hom            | Nurse<br>es for | Dis         | - 12            | 30+56    |
| 5.  | A (b) and B (b) above in which  | mber of observation cases under (b) and B (b) above in which periodservation exceeded 2 months |              |         |              |        |   |                             | ber o            | Purposes er of<br>cimens of sputur |              |                |                 | etc.        |                 | 308      |
| 6.  |   | fumber of attendances at the Diensary (including Contacts)                                     |              |         |              |        |   |                             | c-ray            | exa                                | mina<br>with | tions<br>Disp  | mac             | y wo        | rk              | 190      |
| 7.  | Number of attendances of monary cases at Orthopaed stations for treatment or  | lie C  | out-         |         |              |        | 14. Number of Insured Persons on D pensary Register on the 3 December |                             |                  |                                    |              |                |                 |             | t               | 155      |
|     | vision  |  |              |         | 4            | -      | 15.   | Dom                         | icilia           | ry T                               | reatm        | nent o         | sons on the     | unde<br>31s | t               | 34       |
| 8.  | Number of attendances, at<br>Hospitals or other Institution<br>proved for the purpose, of pat<br>(a) "Light" treatment (b) Other special forms of treatment | ions<br>ients<br>  | ap-          |         | Vil.<br>Vil. | -      | 16.   | Num<br>the<br>Pers<br>(a) F | ber of year ons: | in                                 | respe        | recei<br>ect o | ved d           | luring      | g<br>d          | 28<br>41 |

#### TABLE II.—RESIDENTIAL INSTITUTIONS.

(A) AVERAGE NUMBER OF BEDS AVAILABLE FOR PATIENTS DURING THE YEAR 1929.

|                   | 01                |                            | ionary<br>culosis.  | Non-Pul<br>Tuberc                  |                     |        |
|-------------------|-------------------|----------------------------|---------------------|------------------------------------|---------------------|--------|
| -                 | Observa-<br>tion. | "Sana-<br>torium"<br>Beds. | "Hospital"<br>Beds. | Disease of<br>Bones<br>and Joints. | Other<br>Conditions | Total. |
| Adult Males       | <br>1             | 7                          | 5                   | _                                  | _                   | 13     |
| Adult Females     | <br>. 1           | 7                          | 5                   | _                                  | - /                 | 13     |
| Children under 15 | <br>1             | 3                          | -                   | 5                                  | 1                   | 10     |
| Total             | <br>3             | 17                         | 10                  | 5                                  | 1                   | 36     |

## (B) RETURN SHOWING THE EXTENT OF RESIDENTIAL TREATMENT DURING THE YEAR 1929.

|                       |             |    | In<br>Institutions<br>on Jan. 1. | Admitted during the year. | Discharged<br>during the<br>year. | Died<br>in the<br>Institutions | In<br>Institutions<br>on Dec. 31. |
|-----------------------|-------------|----|----------------------------------|---------------------------|-----------------------------------|--------------------------------|-----------------------------------|
|                       | Adults      | M. | 15                               | 26                        | 24                                | 5                              | 12                                |
| Number of             | Adı         | F. | 13                               | 19                        | 18                                | 3                              | 11                                |
| Patients              | Chill-dren. | M. | 4                                | 1                         |                                   |                                | 5                                 |
|                       | d d         | F. | 5                                | 5                         | 4                                 | _                              | 6                                 |
|                       | Adults      | M. | 1                                | 5                         | 4                                 |                                | 2                                 |
| Number of<br>Observa- | Adı         | F. | 3                                | 5                         | 6                                 |                                | 2                                 |
| tion<br>Cases.        | il-         | М. | 1                                | 4                         | 5                                 | -                              | _                                 |
| Cases.                | Chil-dren.  | F. | 2                                | 2                         | 2                                 | _                              | 2                                 |
| Total                 |             |    | 44                               | 67                        | 63                                | 8                              | 40                                |

TABLE III.

Return showing the immediate results of treatment of Patients and of observation of doubtful cases discharged from Residential Institutions during the year 1929.

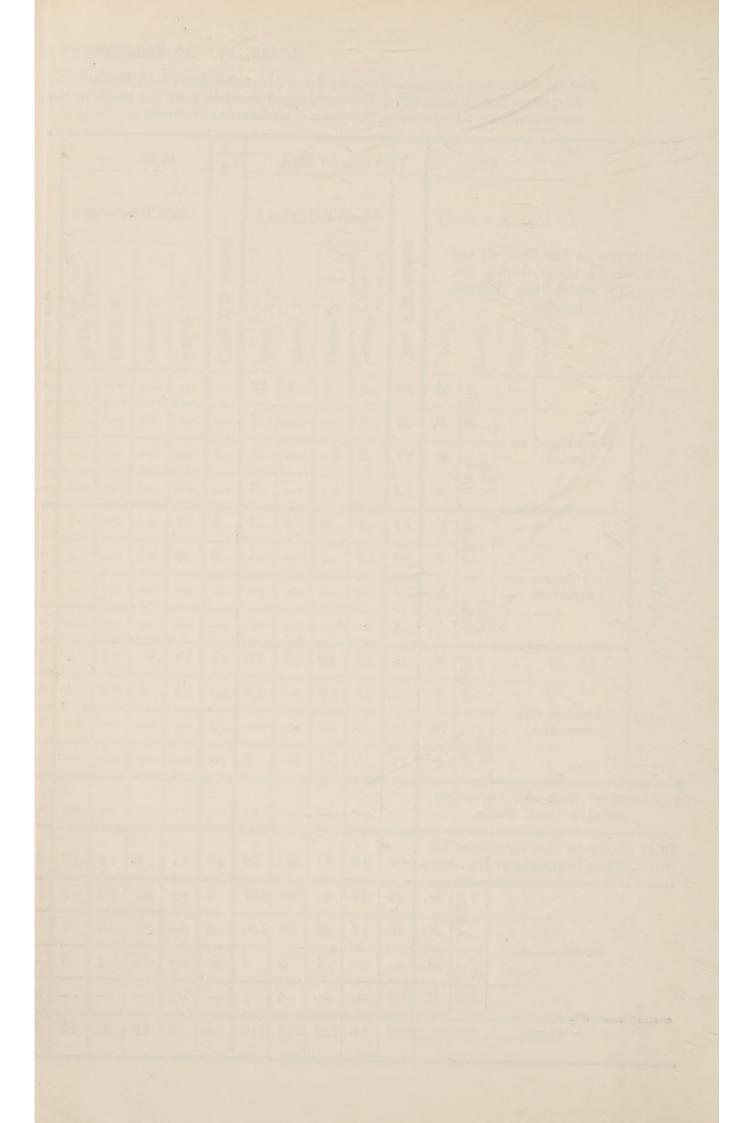
| Condition at time Under 3 of discharge.      | A      | 1   |     | No material improvement | Institution 1 - |   | 1   | No material improvement 1 - | Died in Institution — |    | 1   | No material improvement 2 | in Institution 2 - | -   |     | No material improvement 2 | Died in Institution2 | or Arrested |   | No material improvement | Died in Institution | or Arrested |   | No material improvement | Died in Institution | or Arrested |   | No material improvement | Institution | or Arrested — — |     | No material improvement | Institution | U,                    | Tuberculous | Non-tuberculous |     |
|--|--------|-----|-----|-------------------------|-----------------|---|-----|-----------------------------|-----------------------|----|-----|---------------------------|--------------------|-----|-----|---------------------------|----------------------|-------------|---|-------------------------|---------------------|-------------|---|-------------------------|---------------------|-------------|---|-------------------------|-------------|-----------------|-----|-------------------------|-------------|-----------------------|-------------|-----------------|-----|
| or 3   | . Ch.  | 1   | 1 - | 1                       | 1               | 1 | 1   | 1                           | 1                     | -  |     | 1 8                       | 1                  | 1   | 1   | 1 -                       | - 63                 | 1           | 1 | 1                       | 1                   | 1           | 1 | 1                       | 1                   | 1           | 1 | 1                       | 1           | 1               | -   | 1                       | 1           | Under<br>1 week.      | -           | 1               | 1   |
| 3—61   | 1 .    | 5   | 1 - | 1                       | 1               | 1 | 1   | 1                           | 1                     | 1  | 1   | 1                         | 1                  | 1   | -   | 1                         | 1                    | 1           | - | 1                       | İ                   | 1           | İ | 1                       |                     | 1           | i | i                       | i           | 1               | i   | 1                       | 1           | 1 2                   | Ī           | 1               |     |
| 6 months                                     | Ch.    | 1 1 | - 1 | 1                       | 1               | 1 | 1 - | 1                           | 1                     | 1  | 00  | 1                         |                    | 1   | 1 - | 1                         | -                    | 1           | 1 | 1                       | -                   | 1           | 1 | 1                       | 1                   | 1           | 1 | 1                       | 1           | 1               | 1   | 1                       | -           | weeks.                | 1           | 1               | 1   |
| 6—12   | M.     | -   | 1   | I                       | 1               | I | 1   | 1                           | 1                     | 1  | 67  | 1                         | 1                  | I   | 1   | 1                         | 1                    | 1           | 1 | -                       | 1                   | 1           | 1 | 1                       | 1                   | 1           | 1 | 1                       | 1           | 1               | 1   | 1                       | 1           | 01                    | 1           | 1               | 1   |
| 2 months                                     | F. Ch. | 67  | 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 | 1                       | 1           | 4 weeks.              | 1           | 1               | 1   |
| N 21   | -      | 1   | 1   | 1                       | 1               | 1 | 1   | 1                           | 1                     | 1  | 67  | 1                         | 1                  | 1   | 1   | 1                         | 1                    | 1           | 1 | 1                       | 1                   | 1           | 1 | 1                       | 1                   | 1           | 1 | 1                       | 1           | -               | 1   | 1                       | 1           |                       | -           | 60              | 1   |
| More than<br>12 months.                      | F. 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                       | 1           | More than<br>4 weeks. | 01          | 01              | 1   |
| r 3 3—6 months 6—12 months 12 months. Total. |        | =   | 3   | -                       | -               | 1 | 03  | -                           | 1                     | 01 | 10  | 9                         | 00                 | -   | 60  | 3                         | 4                    | 1           | 1 | 1                       | 1                   | 1           | 1 | 1                       |                     | 1           | 1 |                         | _           | 1               | 01  | 1                       | 1           |                       | 60          | 3 9             | 4 5 |



#### 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 1929, 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.

|                 |  |                 |     | Pı                | evio     | us to    | 1926     |                             |                   |          | 1926     |          |                             |                   |          | 1927     |          |                             |                  |          | 1928     |          |                             |                   |          | 1929     |          |                             |
|-----------------|--|-----------------|-----|-------------------|----------|----------|----------|-----------------------------|-------------------|----------|----------|----------|-----------------------------|-------------------|----------|----------|----------|-----------------------------|------------------|----------|----------|----------|-----------------------------|-------------------|----------|----------|----------|-----------------------------|
|                 |  |                 |     |                   | Cla      | ss T.    | B. ph    | us.                         |                   | Cla      | ss T.l   | B. pl    | us.                         |                   | Cla      | ss T.    | B. pl    | us.                         |                  | Cla      | ss T.    | B. pl    | us.                         |                   | Cla      | ss T.    | B. pl    | us.                         |
| last :          | lition at the time<br>record made duri<br>to which the l<br>relates. | ng th           | ie  | Class T.B. minus. | Group 1. | Group 2. | Group 3. | Total (Class<br>T.B. plus). | Class T.B. minus. | Group 1. | Group 2. | Group 3. | Total (Class<br>T.B. plus). | Class T.B. minus. | Group 1. | Group 2. | Group 3. | Total (Class<br>T.B. plus). | Class T.B. minus | Group 1. | Group 2. | Group 3. | Total (Class<br>T.B. plus). | Class T.B. minus. | Group 1. | Group 2. | Group 3. | Total (Class<br>T.B. plus). |
|                 |  | Adults          | M.  | 38                | 9        | 2        | 1        | 12                          | -                 | -        | -        | -        | -                           | -                 | -        | -        | _        | -                           | -                |          | -        | -        | -                           | -                 |          | -        | -        | -                           |
|                 | Discharged as  | Ad              | F.  | 27                | 2        | -        | -        | 2                           | -                 | -        | -        | -        | -                           | -                 | -        | -        | -        | -                           | -                | -        | -        | -        | -                           | -                 | -        | -        | -        | -                           |
|                 | cured.   | Chil-<br>dren.  | M.  | 21                | 2        | _        | -        | 2                           | -                 | _        | -        | -        | -                           | -                 | -        | -        | -        | -                           | -                | -        | _        | -        | -                           | -                 |          | -        | -        | -                           |
|                 |  | 9-9             | F.  | 13                | 2        | _        | -        | 2                           | -                 |          |          | -        | -                           | -                 | -        | -        | -        | -                           | -                | -        | -        | -        | -                           | -                 | -        | -        | -        | -                           |
|                 |  | Adults          | M.  | 13                | 4        | 2        | 1        | 7                           | 6                 | 1        | _        | -        | 1                           | 1                 | -        | 1        |          | 1                           | -                | -        | -        | -        | -                           |                   | -        | -        | -        | -                           |
| ALIVE.          | Disease  | Ad              | F.  | 10                | 3        | 1        | _        | 4                           | 2                 | 2        | _        | -        | 2                           | -                 | -        | -        | _        | -                           | -                |          | -        | -        | -                           | -                 | -        | -        | -        | -                           |
| AI              | arrested.  | Chil-<br>dren.  | M.  | 2                 | _        | -        | -        | -                           | -                 | -        | -        | -        | -                           | 1                 | -        | -        | -        | -                           |                  | -        | -        | -        | -                           | -                 |          | -        | -        | 7                           |
|                 |  | 9-9             | F.  | 4                 | _        |          | _        | -                           | -                 | -        | _        | -        | -                           | -                 | -        | _        | -        | -                           | -                | -        | -        | -        | _                           | _                 | -        | -        | -        | -                           |
|                 |  | Adults          | M.  | 8                 | 3        | 10       | 3        | 16                          | 1                 | -        | _        | 2        | 2                           | 1                 | 4        | 6        | 1        | 11                          | 7                | 3        | 3        | -        | 6                           | 6                 | 2        | 3        | 4        | 9                           |
|                 | Disease not  | Ad              | F.  | 5                 | 3        | 9        | -        | 12                          | 3                 | 1        | 2        | 2        | 5                           | 4                 | _        | 9        | -        | 9                           | 5                | 2        | 2        | 3        | 7                           | 8                 | 2        | 6        | 2        | 9                           |
|                 |  | Chil-<br>dren.  | M.  | -                 | _        | _        | _        | _                           | 2                 | _        | _        | -        | -                           | 2                 | _        | -        | -        | -                           | 3                | -        | -        | -        | -                           | -                 | -        | -        | -        | _                           |
| _               |  | 9.4             | F.  | 1                 | 1        | 1        | -        | 2                           | -                 | -        | -        | -        | -                           | -                 | -        | _        | -        | -                           | 1                | -        | -        | -        | -                           | -                 | -        | -        | 1        | 1                           |
| CONDI           | TION NOT ASCERDING THE YEAR  |                 | ED  | -                 | -        | -        | -        | -                           | -                 | -        | -        | _        | _                           | -                 | -        | _        | _        | _                           | _                | _        | _        | -        | -                           | _                 | _        | -        | _        | _                           |
| LOST S<br>MOVED | SIGHT OF OR OTHER<br>FROM DISPENSARY                                 | WISE<br>REGI    | RE- | 66                | 19       | 37       | 20       | 76                          | 26                | 1        | 6        | 6        | 13                          | 14                | 1        | 2        | 1        | 4                           | 6                | 1        | 6        | 1        | 8                           | 2                 | -        | _        | _        | -                           |
|                 |  | Adults          | M.  | 18                | 12       | 37       | 108      | 157                         | 3                 | -        | 2        | 5        | 7                           | 3                 | -        | 2        | 9        | 11                          | 1                | -        | 1        | 6        | 7                           | -                 | -        | 1        | 1        | 2                           |
|                 | DEAD.  | Adı             | F.  | 10                | 4        | 25       | 87       | 116                         | 2                 | -        | 1        | 6        | 7                           | -                 | -        | -        | 5        | 5                           | -                | 1        | 3        | 10       | 14                          | -                 | -        | -        | 3        | 3                           |
|                 | DEAD.  | Chill-<br>dren. | M.  | -                 | -        | 1        | 3        | 4                           | -                 | -        | 1        | 1        | 2                           | -                 | -        | -        | -        | -                           | -                | -        | -        | -        | -                           | -                 | -        | -        | -        | -                           |
|                 |  | Chil-dren.      | F.  | 2                 | -        | -        | 4        | 4                           | -                 | -        | -        | -        | -                           | -                 | -        | -        | -        | -                           | 1                | -        | -        | -        | 1-                          | -                 | -        | -        | -        | -                           |
|                 | Totals   |                 |     | 238               | 64       | 125      | 227      | 416                         | 45                | 5        | 12       | 22       | 39                          | 26                | 5        | 20       | 16       | 41                          | 24               | 7        | 15       | 20       | 42                          | 17                | 3        | 9        | 11       | 24                          |



#### 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 1929, arranged according to the years in which the Patients first came under Public Medical Treatment, and their classification as shown on Form A.

|        |  |                |       | Pr                | eviou      | is to         | 1926               |        |                   | 1          | 926           |                    |        |                   | 1          | 1927          |                    |        |                   | 1          | 928           |                    | -      |                   |            | 1929          |                    |        |
|--------|--|----------------|-------|-------------------|------------|---------------|--------------------|--------|-------------------|------------|---------------|--------------------|--------|-------------------|------------|---------------|--------------------|--------|-------------------|------------|---------------|--------------------|--------|-------------------|------------|---------------|--------------------|--------|
| last   | dition at the time<br>record made dure<br>to which the<br>relates. | ing t          | he    | 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. | Bones and Joints. | Abdominal. | Other Organs. | Peripheral Glands. | Total. |
|        |  | Adults         | M.    | 6                 | -          | -             | 14                 | 20     |                   |            | -             | _                  | -      | -                 | -          | -             | -                  | -      | -                 | -          | -             | -                  | -      | -                 | -          | -             | -                  | _      |
|        | Discharged as  | Adı            | F.    | 4                 | _          | 1             | 14                 | 19     | -                 | -          | -             | 1                  | 1      | -                 | -          | _             | -                  | -      | _                 | -          | -             | -                  | -      | -                 | -          | -             | -                  | _      |
|        |  | il-<br>n.      | M.    | 14                | 8          | 1             | 52                 | 75     | -                 | 1          | -             | 3                  | 4      | -                 | -          | -             | -                  | -      | -                 | -          | -             | -                  | -      | -                 | -          | -             |                    | -      |
|        |  | Chill-dren.    | F.    | 7                 | 8          | 5             | 41                 | 61     | -                 | -          | -             | -                  | -      | -                 | -          | -             | -                  | -      | -                 | -          | -             | -                  | -      | -                 | -          | -             | -                  | -      |
|        |  | Adults         | M.    | 1                 | -          | 2             | -                  | 3      | -                 | -          | -             | -                  | -      | -                 | 1          | 1             | 1                  | 3      | -                 | -          | -             | -                  | -      | -                 | -          | -             | -                  | -      |
| ALIVE. | Dissess  | Adı            | F.    | 1                 | -          | -             | 1                  | 2      | 1                 | -          | -             | _                  | 1      | -                 | -          | -             | -                  | -      | -                 | -          |               | -                  | -      | -                 | -          | -             | -                  | -      |
| AEI    | Disease arrested.  | il-<br>n.      | M.    | 1                 | 1          | -             | 5                  | 7      | 2                 | -          | -             | 1                  | 3      | -                 | -          | 1             | 1                  | 2      | -                 | -          | -             | 2                  | 2      | -                 | -          | -             | 1                  | 1      |
|        |  | Chil-<br>dren. | F.    | 1                 | -          |               | 4                  | 5      | -                 | -          | -             | 1                  | 1      | -                 | -          | -             | 1                  | 1      | 1                 | -          | -             | 1                  | 2      | -                 | -          | -             | -                  | -      |
|        |  | ılts           | M.    | -                 | -          | -             | -                  | -      | -                 | -          | -             | -                  | -      | -                 | -          | -             | -                  | -      | 1                 | 1          | -             | -                  | 2      | -                 | 1          | -             | -                  | 1      |
|        |  | Adults         | F.    | 1                 | -          | 1             | -                  | 2      | -                 | -          | -             | 1                  | 1      | 3                 | -          | -             | -                  | 3      | -                 | -          | 1             | 1                  | 2      | 1                 | -          | 1             | -                  | 2      |
|        | Disease not arrested.  | n.             | M.    | 4                 | 1          | 1             | 1                  | 7      | -                 | -          | -             |                    | -      | 1                 | 1          | -             | 1                  | 3      | 1                 | -          |               | 2                  | 3      | 2                 | -          | 3             | 2                  | 7      |
|        |  | Chil.          | F.    | _                 | _          | -             | 2                  | 2      | 1                 | -          | -             | -                  | 1      | 1                 | -          | -             | 3                  | 4      | 1                 | -          | -             | 6                  | 7      | -                 | 2          | 1             | 1                  | 4      |
| TRANS  | SFERRED TO PULMO   | NARY           |       | 1                 | 1          | 1             | 6                  | 9      | -                 | -          | -             | -                  | -      | -                 | -          | -             | -                  | -      | -                 | -          | -             | -                  | -      | -                 | -          | -             | -                  | -      |
| Condi  | TION NOT ASCED   |                | ED    | _                 | _          | _             | _                  | -      | -                 | -          | _             | -                  | _      | -                 | -          | _             | -                  | _      | _                 | _          | _             | -                  | _      | _                 | _          | -             | _                  | _      |
| Lost   | SIGHT OF OR OTHE<br>DFROM DISPENSARY                               | REGI           | E RE- | 23                | 7          | 1             | 24                 | 55     | 2                 | 2          | 5             | 4                  | 13     | -                 | -          | -             | 1                  | 1      | -                 | _          | -             | 1                  | 1      | _                 | _          | _             | 1                  | 1      |
|        |  | lts            | M.    | 6                 | -          | 2             | -                  | 8      | -                 | -          | 1             | -                  | 1      | 1                 | 1          | -             | -                  | 2      | -                 | -          | -             | -                  | -      | -                 | -          | -             | -                  | -      |
|        |  | Adults         | F.    | 3                 | 2          | 4             | 1                  | 10     | -                 | -          | 1             | -                  | 1      | 1                 | -          | -             | -                  | 1      | -                 | -          | -             | -                  | -      | -                 | -          | 1             | -                  | 1      |
|        | DEAD.  | J              | M.    | 2                 | -          | 5             | -                  | 7      | -                 | -          | -             | -                  | -      | -                 | -          | 1             | -                  | 1      | -                 | 1          | -             | -                  | 1      | -                 | -          | -             | -                  | -      |
|        |  | Chill-dren.    | F.    | 2                 | 6          | 2             | 3                  | 13     | -                 | -          | 1             | -                  | 1      | -                 | 1          | -             | -                  | 1      | -                 | -          | -             | -                  | -      | -                 | -          | -             | -                  | -      |
|        | Totals   |                | )——   | 77                | 34         | 26            | 168                | 305    | 6                 | 3          | 8             | 11                 | 28     | 7                 | 4          | 3             | 8                  | 22     | 4                 | 2          | 1             | 13                 | 20     | 3                 | 3          | 6             | 5                  | 17     |



# Sunlight Treatment.

Despite the difficulty of demonstrating the exact value of this form of treatment in producing the results shown in the table, I am satisfied that the method is a very valuable asset in appropriate circumstances. It will be observed that 50 cases drawn from the Welfare Centres and the Tuberculosis Department have been treated. In cases where there is a collection of pus, e.g., in softened Tubercular glands, Mastitis, Periostitis, etc., one essential point before any improvement can be expected from Sunlight treatment is the establishment of free drainage. In the absence of this, no amount of sunlight treatment will produce healing.

The case of varicose ulceration was very extensive, and the results of treatment were amazing. In other patients the improvement was slower.

The lupus cases are now showing rapid improvement since the installation of the Kromayer Mercury Vapour lamp for local treatment.

#### TUBERCULAR CASES.

| Defect                       | No. of<br>Cases. | Average months of treatment. | December 31st, 1929.   |
|------------------------------|------------------|------------------------------|--|
| T.B. glands                  | <br>10           | 7                            | 8 arrested.<br>2 improved.   |
| Lupus                        | <br>8            | 8                            | 2 quiescent. 5 improved. 1 improved, treatment discontinued on account of Pulmonary condition. |
| T.B. Peritonitis             | <br>3            | 8                            | 2 arrested.<br>1 improved.   |
| Empyema                      | <br>1            | 3                            | 1 cured.   |
| T.B. Ulceration of<br>Cornea | <br>1            | 6                            | Unchanged (Admitted to New<br>Hall).   |

## OTHER CASES.

| Defect           | No. of<br>Cases. | Average months of treatment. | December 31st, 1929.                                 |
|------------------|------------------|------------------------------|--|
| Rickets          | 16               | 4                            | 10 cured. 4 improved. 2 parents refused continuance. |
| Malnutrition     | 1                | 1                            | Treatment apparently caused vomiting. Discontinued.  |
| Marasmus         | 2                | 2                            | 2 improved.  |
| Cervical Glands  | 4                | 6                            | i cured. 3 arrested.                                 |
| Chronic Mastitis | 1                | 1                            | No improvement.                                      |
| Varicose Ulcers  | 1                | 3                            | Marked improvement.                                  |
| Recent Empyema   | 1                | 1                            | Discontinued on account of other illness.            |
| Anaemia          | 1                | 1                            | Parents refuse continuation.                         |

# 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.

#### MAIN DRAINAGE SCHEME.

The existing main sewerage system of Southport exclusive of Birkdale and Ainsdale was constructed about the year 1880, when the population of Southport was approximately 32,000. The population is now over 80,000, and in consequence of this large increase in population and of the built-up area draining to the sewers, the present sewerage system is inadequate and is heavily surcharged in times of rain, flooding occurring at certain points.

The new Main Drainage Scheme now approved by the Ministry of Health and on which work has already commenced, is for the purpose of providing relief to the existing sewerage system at certain points. This scheme is designed to be adequate for the next 60 years, when it is estimated there will be a population draining to the Bank End Sewage Works of 114,350.

The works now to be put in hand constitute only part of the main scheme which will eventually have to be completed to deal adequately with the drainage of Southport, and consist of the following:

- 1.—A main storm overflow sewer running from the junction of the main outfall sewer and the Lord Street sewer at the corner of Park Avenue and Park Crescent and conveying the storm water (in excess of 6 times dry weather flow) to a proposed new Pumping Station on the seaward side of the Municipal Golf Links. At this Pumping Station any solids which may be in the storm water will be intercepted by means of a fine revolving screen and pumped back into the main sewer. The water after passing the screen will be lifted by means of pumps into an outfall sewer across the foreshore, discharging at a point about 660 yards seawards of the high water mark. This Pumping Station will be such that the storm water will be discharged into the sea at any state of the tide.
- 2.—A relief Sewer in Butts Lane and Crowlands Street and a storm water sewer in Russell Road overflowing into storm tanks to be constructed adjoining Fine Jane's Brook opposite the junction of Crowlands Street and Russell Road. The storm water in excess of 3 times dry weather flow will be overflowed into these Tanks and pumped back into the sewer after the storm has subsided. In cases of heavy rain the storm water after having filled these Tanks will overflow into Fine Jane's Brook. The Tanks have, however, been designed exceptionally large, namely with a capacity of 500,000 gallons, in order to diminish the amount overflowing into the Brook.

#### 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:

|   | 1927 |        | 1928 |        | 1929 |
|---|------|--------|------|--------|------|
| Houses drained or re-drained                | 249  | ****** | 162  |        | 124  |
| House drains unstopped                      | 426  |        | 502  |        | 500  |
| Midden privies converted into W.C.'s        | 12   |        | 4    |        | 2    |
| Bristol ejects and trough closets converted |      |        |      |        |      |
| into fresh-water closets                    | 18   |        | 7    | ****** | . 18 |
| Wet ashpits converted into dry              | 0    |        | 0    |        | 0    |
| Sundry structural nuisances abated          | 164  |        | 134  |        | 209  |
|   |      |        |      |        |      |
| Totals                                      | 869  | ****** | 809  |        | 853  |
|   |      |        | -    |        |      |

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 are now connected to the Public Sewer. Much work has been done by private contractors by way of correcting defects which do not appear in the Table.

#### 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.

|  |              | NUMBER OF        |               |
|--|--------------|------------------|---------------|
| PREMISES.                                | Inspections. | Written Notices. | Prosecutions. |
| FACTORIES(Including Factory Laundries).  | 122          | 1                | None          |
| WORKSHOPS(Including Workshop Laundries). | 494          | 3                | ,,            |
| WORKPLACES                               | 168          | 0                | ,,            |
| Totals                                   | 784          | 4                | ,,            |

#### 2.—DEFECTS FOUND.

|  |                               | Nu        | mber of Def | ects                            |      |
|--|-------------------------------|-----------|-------------|---------------------------------|------|
| Particulars  | Found.                        | Remedied  |             | Number of<br>Prosecu-<br>tions. |      |
| Nuisances under the Public Hea-  |                               | 2 1       | 2           | None                            | None |
|  |                               | 1         | 1           | ,,                              | ,,   |
| Overcrowding   |                               | - 1       | 1           | ,,                              | "    |
| Want of Drainage of Floors   |                               | -         | _           | ,,                              | ,,   |
| Other Nuisances  |                               | 1         | 1           | ,,                              | ,,   |
|  | insufficient<br>insuitable or | .0        | 0           | ,,                              | ,,   |
|  | defective<br>not separate     | 0         | 0           | "                               | ,,   |
| Offences under the Factory and   | for sexes                     | 0         | 0           | ,,                              | ,,   |
| Illegal occupation of Underg<br>house (S. 101)<br>Breach of special Sanitary I | round Bake-                   | None      | None        | ,,                              | ,,   |
| for Bakehouses (SS. 97 to  | 100)                          | 3<br>None | 3<br>Name   | ,,                              | ,,   |
| Other Offences   |                               | None      | None        | "                               | ,,   |
| Total  |                               | 8         | 8           | ,,                              | ,,   |

<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.

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<sup>†</sup> 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 Accommo-eation Order of 4th February, 1903.

#### 4.—REGISTERED WORKSHOPS.

Total number of workshops on Register...... 369

#### 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 remediable under the Public Reports (of action Health Acts, but not under taken) sent to | 11      |
| the Factory Act (S. 5) H.M. Inspector   | _       |
| Other Matters—Forms received from H.M. Inspector re New Workshops   | 17      |
| Underground Bakehouses (S. 101) :—  |         |
| Certificates granted during the year  | _       |
| In use at the end of the year   | 6       |

#### SMOKE ABATEMENT.

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   | 31,321 |
|--|--------|
| Complaints received from public                                  | 1,097  |
| Inspections on complaints  | 1.097  |
| Miscellaneous Inspections  | 6,955  |
| Houses completely inspected—for in-going tenants, sickness, etc. | 468    |
| Re-inspections relating to sanitary defects under notice, etc    | 2,239  |
| Routine Inspections of Special Premises :—                       |        |
| Factories and Workshops, including Bakehouses                    | 456    |
| Common Lodging-houses  | 280    |
| Stable Premises  | 54     |
| Offensive Trades   | 160    |
| Milk Shops   | 314    |
| Smoke Observations (one hour each)                               | 73     |

| Sanitary Defects Remedied :—   |             |
|--|-------------|
| Houses re-drained, or drains amended, etc.   | 350         |
| Building and altering W.C.'s.  |             |
| Miscellaneous Nuisances, etc., remedied  | 953         |
| miscentificous realisations, etc., remotiled   |             |
| Total  | 13,437      |
|  |             |
| N. C. M. Alandar N. C. N |             |
| Notices Served for Abatement of Nuisances, etc. :—   | 70          |
| Verbal   |             |
| Preliminary  |             |
| Statutory Sewer complaints reported to Highway Department  |             |
| Sanitary Certificates issued   | 6           |
| Samtary Certificates issued  |             |
| Infectious Diseases :—   |             |
| Inquiries into Cases   | 1,853       |
| Patients removed to Isolation Hospital   | 354         |
| Houses disinfected   |             |
| Bedding disinfected  |             |
| Schools disinfected  |             |
| Stables and Cowsheds disinfected   |             |
| Notices to School Attendance Officers  | 2,150       |
| Notices to Free Library  |             |
| Notices to School Medical Officer  |             |
|  | _,          |
| Consumption :—   |             |
| Cases notified   |             |
| Pulmonary  |             |
| Non-Pulmonary  | 35          |
| Number of Visits to Tuberculosis Patients  |             |
| Patients' Visits to Dispensary   |             |
| Examined by Tuberculosis Officer   |             |
| Enquiries—Contacts   |             |
| Contacts examined by Tuberculosis Officer  | 61          |
|  |             |
| ABATEMENT OF NUISANCES.  |             |
|  |             |
| Only 2 per cent. of the total Nuisances reported remained  | d wholly or |
| partly unabated at the end of the year.  |             |
|  |             |
| Cases reported   |             |
| ,, abated  | 1,548       |
|  |             |
| ,, not abated  | 33          |
| under negotiation  |             |
| ,, under negotiation, in Contractors' Hands  | 9<br>14     |
| in Borough Engineer's Hands  |             |
| ,, in Unoccupied Premises  |             |
| ), III OHOOUPIOU LICINISCS   | 4           |

#### SANITARY CERTIFICATES.

Householders are strongly advised to have the Drains and Sanitary Fitmets 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.

| Houses completely inspected for various   |        |      |      |      | 1929 |
|---|--------|------|------|------|------|
| causes  | 3 653  | 906  | 839  | 446  | 468  |
| Reports made under Housing Acts, 1909   |        |      |      |      |      |
| and 1919  |        |      | 0    | 0    | 0    |
| Notices served under the said Housing Acts 33   | 3 15   | 4    | 0    | 0    | 0    |
| Houses reported under Section 11 of 1925<br>Act for closing   | ) 6    | 7    | 6    | 2    | 2    |
| Houses considered to be in a state so dan-<br>gerous or injurious to health as to be unfit                          |        |      |      |      |      |
| for human habitation  | ) 6    | 7    | 6    | 2    | 2    |
| Closing Orders made by Local Authority  | ) 6    | 7    | 6    | 2    | 2    |
| Dwelling-houses closed after Closing Orders   | ) 3    | 7    | 4    | 2    | 2    |
| Houses reported under Section 15 and Section 28 for repairs necessary to put such houses into a fit state for human | 1.0    |      |      |      |      |
| habitation28  |        |      | 0    | 0    | 0    |
| Notices served under Sections 15 and 28   | 3 15   | 4    | 0    | 0    | 0    |
| 192   | 4 1925 | 1926 | 1927 | 1928 | 1929 |
| Orders under Sections 15 and 28 complied with by Owners   | 5 5    | 10   | 0    | 0    | 0    |
| Orders carried out by Local Authority under<br>the powers of the Act  | 0      | 0    | 0    | 0    | 0    |
| Orders not complied with under Section 17   | 0      | 0    | 0    | 0    | 0    |
| Orders not complied with under Section 15   |        |      |      |      |      |
| and Section 281   | 10     | 4    | 0    | 0    | 0    |
| New Houses Erected and Certified 309  | 630    | 730  | 504  | 300  | 250  |
| Houses closed on Owners' initiative   | 0      | 0    | 0    | 0    | 0    |

Most of the work during the year has been carried out under The Public Health Acts. There is comparatively little dilapidated property in the Area.

#### 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  |   |                               |   |        | 1,929  |
|---|---|-------------------------------|---|--------|--------|
| Breaches of Shops' Acts Discover Trading during prohibited he Assistants not getting full tin Assistants not getting Week No Notice in Shop re Week No Notice in Shop re Closin Shop Seats—Absence of | ours<br>me for me<br>ly Half-h<br>ly Half-h | alsoliday<br>oliday<br>oliday | *************************************** |        |        |
| Action taken as to offences:  Warned verbally  Warned by letter  Reported to Local Authority  Prosecutions  Night Patrol—Hours  | ₹   |                               |   |        |        |
| THE REMOVAL   | OF HOU                                      | USEHOLD                       | REFUS                                   | E.     |        |
|   | 1925  | 1926                          | 1927                                    | 1928   | 1929   |
| Estimated Amount of Refuse<br>removed from Borough, loads<br>Number of Ashpits replaced by  | 14,128                                      | 13,731                        | 13,588                                  | 13,670 | 13,164 |
| Ashbins during the year   | 42  | 141                           | 55                                      | 18     | 51     |

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 | <br>Nil |
|------|----------------|---------|
| 1925 | ,,             | <br>4   |
| 1926 | ,,             | <br>5   |
| 1927 | ,,             | <br>2   |
| 1928 | ,,             | <br>4   |
| 1929 | ,,             | <br>2   |

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.

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 :—

| (Pyrexia               | 6   |   |
|------------------------|---|---|
| Uterine Inertia        | 17  |   |
| Ruptured perineum      | 43  |   |
| Threatened abortion    | 1   |   |
| Breech                 | 5   |   |
| Ante-natal examination | 6   |   |
| Chest                  | 2   |   |
| Haemorrhage            | 5   |   |
|                        | 2   |   |
|                        | 1   |   |
|                        | 1   |   |
| Varicose veins         | * 2   |   |
| (?)Mental              | 1   |   |
|                        | 3   |   |
| Exhaustion             | 2   |   |
| Difficult micturition  | 1   |   |
|                        | 1   |   |
|                        | 1   |   |
|                        |   | 100   |
| Inflammation of eyes   | 10  |   |
| Rash                   | 2   |   |
| Dangerous feebleness   | 1   |   |
| Deformity              | 6   |   |
| Prematurity            | 10  |   |
| Stillborn              | 4   |   |
|                        |   | 33  |
|                        |   | -   |
| Total                  |   | 133   |
|                        | Uterine Inertia Ruptured perineum Threatened abortion Breech Ante-natal examination Chest Haemorrhage Abdominal tenderness Deformed pelvis Retained placenta Varicose veins (?)Mental Malpresentation Exhaustion Difficult micturition Pneumonia Not definitely specified  Inflammation of eyes Rash Dangerous feebleness Deformity Prematurity Stillborn | Uterine Inertia         17           Ruptured perineum         43           Threatened abortion         1           Breech         5           Ante-natal examination         6           Chest         2           Haemorrhage         5           Abdominal tenderness         2           Deformed pelvis         1           Retained placenta         1           Varicose veins         2           (?)Mental         1           Malpresentation         3           Exhaustion         2           Difficult micturition         1           Pneumonia         1           Not definitely specified         1           Inflammation of eyes         10           Rash         2           Dangerous feebleness         1           Deformity         6           Prematurity         6           Stillborn         4 |

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## MIDWIVES: ACTS, 1902 & 1928.

The number of Midwives who notified their intention to practice for the year 1929 was 22, of these 19 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 648 Births were notified to the Local Supervising Authority by the Midwives, medical help being obtained for 113 cases.

| STILLBIRTHS (Corrected)                            | 43  |       |
|--|-----|-------|
| Number notified by Medical Practitioners           | 19  |       |
| ,, ,, Midwives                                     |     |       |
| Number of Births notified by Medical Practitioners |     | 336   |
| ,, ,, Midwives                                     |     |       |
| Number of Births notified (corrected)              |     |       |
|  |     |       |
| INFANTILE CARE.                                    |     |       |
| Births notified to M.O.H.: Legitimate              |     | 903   |
| ,, ,, ,, Illegitimate                              |     |       |
| Births not notified                                |     | 11    |
| ,, ,, (1928)                                       |     | 5     |
| Infants visited at home                            |     | 825   |
| ,, stillborn                                       | 34  |       |
| ,, who died within 24 hours of birth               | 7   |       |
| ,, breast fed                                      | 616 |       |
| ,, partly breast fed                               | 40  |       |
| ,, artificially fed                                | 119 |       |
| ,, removed   | 9   |       |
| Ante-natal cases: 1st visits                       |     | 219   |
| . Re-visits  |     | 585   |
| Post-natal cases: 1st visits                       |     | 876   |
| Re-vis ts  |     | 4,514 |
| Infants: 1st visits                                |     | 827   |
| Re-visits  |     | 4,527 |
| Home visits to Children—1 to 5 years               |     | 5,073 |
| Do. Infants—Sore eyes                              |     | 76    |
| Deaths of infants under 1 year of age :—           |     |       |
|  | 10  |       |
| Breast fedArtificially fed                         | 42  |       |
| Died under 24 hours                                | 8   |       |
| Too good to visit                                  | 4   |       |
|  | 65  |       |
|  |     |       |

## MATERNITY WARD, CURZON ROAD, SOUTHPORT.

## 21 BEDS.

| (1) Number of cases in the Home on<br>1st January, 1929  | 11  |
|--|---|
| (2) Number of cases admitted during 1929   | 281   |
| (3) Average duration of stay   | 14 days.  |
| (4) Number of cases delivered by (a) Midwives (b) Doctors  | 234<br>47   |
| <ul> <li>(5) Number of cases in which medical assistance was sought by a Midwife, stating the reasons for requiring assistance.</li> <li>(a) ante-natal.</li> <li>(b) during labour.</li> <li>(c) after labour (state separately the number of ruptured perineums which required suture).</li> </ul> | All cases are seen by the Doctor at the Ante-natal Clinic.  (a) Stomach tube inductions |
| (6) Number of cases notified as  (a) Puerperal fever.  (b) Puerperal pyrexia  (i.e., rise of temperature to 100.4 F. for 24 hours or its recurrence within that period) stating the result of treatment in each case.  | (a) Nil. (b) Caesarean section. 2 (Recovered). Pyelitis                                 |
| (7) Number of cases of<br>Pemphigus neonatorum   | Nil.  |
| (8) Number of cases notified as<br>Ophthalmia Neonatorum, stat-<br>ing the result of treatment in<br>each case.  | One, transferred to V.D. Department—Cured.  |
| each case.   |   |

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

## 21 BEDS.

| (9)  | Number of cases of "inflammation of the eyes," however slight.   | Ten.   |
|------|--|--|
| (10) | Number of infants not entirely breast-fed while in the Institution, stating the reasons why they were not breast-fed.                                  | Anaemia       3         Retracted Nipples       3         Hare lip and cleft palate       1         Mastitis       1         Puerperal Mania       1         Babies being put out to nurse       4   |
| (11) | Number of maternal deaths, stating the causes.   | Pyelitis         1           Toxaemia of pregnancy         2           P.P.H. and Retained Placenta         1  |
| (12) | Number of foetal deaths  (a) Stillborn, and  (b) within 10 days of birth.  State the causes, and the results of post mortem examinations if obtainable | (a) Eclampsia of mother       2         Ante-partum haemorrhage       2         Persistent Occipito—Posterior position       2         terior position       2         Placenta Praevia       1         Transverse Position       2         Baby born on district       1         Premature rupture of membranes       1         Prematurity       1         (b) Congenital Heart Disease       2         Prematurity       1         No post-mortem examinations were held. |

# REPORT ON THE MATERNITY HOSPITAL AND ANTE-NATAL CLINIC FROM JANUARY 1st to DECEMBER 31st, 1929.

During this period 281 cases were confined and there were 1,525 attendances at the Ante-Natal Clinic

There were 25 emergency cases :-

4 Eclampsia

2 Placenta praevia

1 Placenta praevia and Albuminuria

1 Cardiac case

1 Breach

2 Occipito-posterior

3 Abortion at 8th, 12th and 20th weeks

2 Uterine inertia

1 Transverse arm presentation

1 Albuminuria

1 Adherent placenta

4 Contracted pelvis

1 Hyperemesis at 4th month who afterwards attended clinic.

1 P.P.H. with retained placental tissue.

The attendances at this ante-natal clinic are extremely satisfactory and certainly repay the work done there.

There were 36 cases of Albuminuria, 19 of these cleared up by following out instructions at home, and 17 were admitted to the Ante-natal department for treatment. Everyone was discharged from the Hospital clear of Albumin with one exception, and she was nearly clear, but at her own request was allowed to go home on condition that she put herself under the care of her own Doctor.

We had one case of Eclampsia which was unfortunate but instructive.

The case was Mrs. S., a primipara who attended the clinic on six occasions:

first on 13- 9-29 urine free of Albumin.
11-10-29 do.
25-10-29 do.
8-11-29 trace of Albumin found.

She was allowed to go home and was given instructions about diet, exercise, clothing, etc., and asked to report the following week. On 15-11-29 there was still a trace of Albumin, the instructions were repeated and she was allowed to go home. On 22-11-29 the amount of Albumin had increased so she was told to come in to the Ante-natal department that night. Between 1 p.m. and 6 p.m. on 22-11-29, I understand she did a Spring cleaning and some washing and came in at 6 p.m. on the 22nd as requested, but instead of having treatment, started in labour at 11 p.m. at the 38th week of pregnancy. She had her first fit at 7 p.m. and had 29 fits in all, when she was discharged, the urine was clear of Albumin and when she came up 6 weeks later, it was still clear of Albumin.

This case is instructive in so far that when she was told to come in for treatment to the Ante-natal department, we omitted to tell her to leave her Spring cleaning and washing till she went out again.

There were 19 cases of Occipito-posterior positions all corrected by pad and binder.

No case of malposition is interfered with before about the 32nd week.

Sixteen cases of Breach presentation were turned by external manipulation and 11 righted themselves.

Ten stomach tube inductions were done for disproportion between foetal head and maternal pelvis. These were all done about the 38th week and were all successful.

Five caesarean sections were done, 3 on our own cases and 2 on emergencies for

contracted pelvis and chorea, contracted pelvis, eclampsia, contracted pelvis (2 cases)

We had four maternal deaths during the year. One case of our own and three emergencies.

(1) Mrs. G. (our case) age 19, died of Pyelitis on her 5th day.

(2) Mrs. C., emergency, Toxaemia of pregnancy and caesarean section and never recovered properly from the anaesthetic.

(3) Mrs. S., Toxaemia of pregnancy with Placenta praevia.

(4) Mrs. G., Post partum Haemorrhage, pulseless on admission and retained piece of placenta at Post-mortem.

I wish again to compliment the Staff on their conscientious and careful work; also to thank Dr. Cronin Lowe the Pathologist for his help in several cases, particularly one baby with Haematemesis on which he did a timely blood transfusion from the father and thereby, I am convinced, saved the baby's life.

Thanks are due to the Surgeons at the Infirmary for their great courtesy in dealing with our caesarean sections, also to our consulting Obstetrician, Dr. Leith Murray, whose advise has always been helpful and willing, and to Dr. Sheldon for so ably carrying on in my absence.

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

## 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.

|                    | ATTENDANCES.                             |               |                |                           |         |         |                    |         | TREATED. |      |                   |  |
|--------------------|--|---------------|----------------|---------------------------|---------|---------|--------------------|---------|----------|------|-------------------|--|
| Name of<br>Centre. |  |               |                | Expectant Infants Mothers |         | nts     | Children<br>over 1 | Nursing | Expect-  |      | Childre<br>over 1 |  |
|                    | lst Re- lst Re- lst visits visits visits | Re-<br>visits | and<br>under 5 | Mothers                   | Mothers | Infants | and<br>under 5     |         |          |      |                   |  |
| Hampton Road       | 180                                      | 2205          | 43             | 105                       | 178     | 1442    | 1027               | 393     | 98       | 1616 | 937               |  |
| High Park          | 138                                      | 2582          | 13             | 23                        | 137     | 1929    | 925                | 664     | 22       | 2053 | 925               |  |
| Liverpool Road     | 154                                      | 2527          | 32             | 106                       | 155     | 1945    | 1499               | 316     | 142      | 2100 | 1512              |  |
| Crossens           | 71                                       | 1435          | 7              | 49                        | 72      | 881     | 944                | 178     | 53       | 952  | 944               |  |
| Hoghton Street     | 160                                      | 3086          | 21             | 36                        | 160     | 2314    | 1170               | 243     | 41       | 2459 | 1170              |  |
| Totals             | 703                                      | 11835         | 116            | 319                       | 702     | 8511    | 5565               | 1794    | 356      | 9180 | 5488              |  |

#### ATTENDANCES.

|      | Nursing Mothers. |          | Expectan  | t Mothers | Infa      | Children<br>over 1 and |                   |
|------|------------------|----------|-----------|-----------|-----------|------------------------|-------------------|
|      | 1st visit        | Re-visit | 1st visit | Re-visit  | 1st visit | Re-visit               | under 5<br>years. |
| 1924 | 384              | 6617     | 35        | 95        | 384       | 4407                   | 2876              |
| 1925 | 479              | 8416     | 58        | 191       | 472       | 5651                   | 3607              |
| 1926 | 586              | 9511     | 60        | 248       | 599       | 6742                   | 4150              |
| 1927 | 629              | 10316    | 70        | 246       | 644       | 7539                   | 4934              |
| 1928 | 594              | 10067    | 85        | 315       | 583       | 7055                   | 5087              |
| 1929 | 703              | 11835    | 116       | 319       | 702       | 8511                   | 5565              |

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

I am satisfied that the opening of this Clinic is an important move in the right direction, and have no doubt that the attention rendered and the advantages received will presently result in a greatly extended use of it. It is to be borne in mind that Ante-natal care as a social service is so largely an innovation in the habits of the people that the progress made up to now generally must be regarded as highly encouraging. I am perfectly confident that on the development of this assistance, the hoped for reduction in maternal mortality very largely depends.

The Clinic is becoming well established, and has tended to unify the services available to expectant and nursing mothers. It is a matter of great gratification that those who have attended our Ante-natal Clinic regularly bring their babies to us at a very early age. before difficulties in breast feeding, etc., have arisen. Supervision and instruction in the first few weeks can avoid much artificial feeding often too readily resorted to.

In this connection we are constantly indebted to the staff of the Corporation Maternity Hospital for putting so many infants on sound lines of feeding and management.

BERTHA N. BUTTERS.

1st visits—
Gynaecological. Ante-natal.
24 68

Re-visits. 120

#### 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 1929 :— Maternity Cases | 21         |
|---|------------|
| Rescue Cases  | 2          |
| Night Cases   |            |
| Preventive  |            |
|   | _          |
|   | 40         |
|   | -          |
| Total number of discharges during 1929 :—                 |            |
| Maternity Cases.  | 23         |
| Maternity Cases   | None.      |
| To V.D. Ward  | 3          |
| Rescue Cases to Mental Homes                              | None.      |
| Rescue Cases to other Homes                               |            |
| Rescue Cases to Domestic Service                          |            |
| Night Cases   |            |
|   | _          |
|   | 45         |
|   | _          |
| Average length of time kept in Home                       | . 27 weeks |
| Visits paid by former Inmates                             | . 964      |

| Number of Babies in St. Katherine's Home in 1929 : |        |
|--|--------|
| Babies admitted to Home                            | 2      |
| Babies born in Home                                | 17     |
|  |        |
|  | 19     |
|  |        |
| Number Discharged from Home during 1929 :—         |        |
| Discharged with the Mothers                        | 8      |
| Discharged with the Mothers                        | 4      |
| To another Home                                    | 2      |
| To V.D. Ward                                       | 1      |
| To the Union                                       | _      |
|  |        |
|  | 15     |
|  | -      |
| SOUTHPORT AND BIRKDALE DAY NURSERY, DUKE           | CTDEET |
| SOUTHFORT AND BIRRDALE DAT NURSERT, DUKE           | SIKEEI |
| Individual Children admitted                       | 92     |
| Attendance (days)                                  | 3,485  |
| Average weekly attendance                          | 75     |
| ,, daily ,,  | 15     |

#### OPHTHALMIA NEONATORUM.

|           | Cases.   | JACON A     | Vision un- | Vision | Total      |         |
|-----------|----------|-------------|------------|--------|------------|---------|
| Notified. | Treated. |             |            |        | Blindness. | Deaths. |
|           | At Home. | In Hospital |            |        |            |         |
| 12        | 3        | 7           | 9          | 1      | Nil.       | Nil.    |

- 1 Notified case was found not to be suffering from Ophthalmia Neonatorum.
- 1 Notified case lived outside the Borough but received treatment in the Southport Infirmary.

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                 |     | 4     |
|--|-----|-------|
| Removed to Hospital                                | 1   |       |
| Nursed at home                                     | 3   |       |
|  | -   | 4     |
| All the cases completely recovered.                |     | -     |
| T V  |     |       |
|  |     |       |
| Notifications of Puerperal Fever                   |     | 4     |
| Removed to Hospital                                | 1 3 |       |
| Nursed at home                                     | 3   |       |
|  | -   | 4     |
| All the cases completely recovered.                | -   |       |
| SUPPLEMENTARY HEALTH VISITI                        | NG. |       |
| Special Enquiries—Medical Officer of Health        | 81  |       |
| Incidental Calls                                   | 692 |       |
| Visits to Infectious Diseases                      | 147 |       |
| Visits to houses found closed                      | 856 |       |
| Visits to Midwives                                 | 43  |       |
| Visits to Maternity and Nursing Homes              | 11  |       |
| (See also Report of School Medical Officer).       |     |       |
| (see also report of senior medical officer).       |     | ,     |
| IN-PATIENTS DURING 1929.                           |     |       |
| New Hall Isolation Hospital                        | 481 |       |
| ,, Sanatorium                                      | 102 |       |
| Corporation   Maternity Ward                       | 292 |       |
| Institutions V.D. Ward                             | 50  |       |
| St. Katherine's Home                               | 54  |       |
|  |     | 979   |
| Bradstock Lockett                                  | 13  |       |
| Children's Convalescent Home, W. Kirby             | 2   |       |
| Royal Normal College, London (Blind)               | 1   |       |
| Training School for the Blind, Liverpool           | 1   |       |
| Outside   School for Indigent Blind, Wavertree     | 1   |       |
| Institutions   School for Deaf and Dumb, Liverpool | 1   |       |
| Dovecot, Knotty Ash (Feeble-minded)                |     |       |
| Pontville R.C. School do.                          | 2   |       |
| Great Warford do.                                  | 2   |       |
| Monyhull Institution do.                           | ī   |       |
| Homestead, Lingfield (Epileptic)                   | 1   |       |
|  |     | 30    |
|  |     |       |
|  |     | 1,009 |
|  |     |       |

#### MEDICAL DEPARTMENTS.

#### OUT-PATIENT ATTENDANCES.

| Minor Ailment    | Clinic (Doctors)                        | 3,622  |
|------------------|---|--------|
| do.              |   |        |
|                  |   |        |
|                  | *************************************** | 366    |
| Nasal Clinic     |   | 2,319  |
| Eye Clinic       |   | 585    |
| Nose and Throa   | t Clinic                                | 274    |
| Sunlight Clinic  | (Doctors)                               | 172    |
| do.              | (Nurses)                                | 1,601  |
| Dental Clinic    | (Elementary)                            | 4,374  |
| do.              | (Secondary)                             | 396    |
| do.              | (Mothers)                               | 647    |
| Ante-natal Clini | c (Church Street)                       | 212    |
| Maternity Ward   |   | 1,525  |
| V.D. Departmen   | nt                                      | 10,571 |
| Welfare Centres  |   | 27,751 |
| Dispensary       |   | 1,697  |
| Contact Clinic   |   | 61     |
|                  | ions                                    |        |
|                  |   | 64,435 |
|                  |   | -      |

# 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). |
|---|----------------|
|   | (Opened 1918). |
| Wesleyan Schools, Liverpool Road, on Tuesday at 2-30 p.m. | (Opened 1919). |
| Rufford Road, Crossens, on Wednesday at 2-30 p.m.         | (Opened 1921). |
| Baptist Schools, Hoghton Street, on Tuesday at 2-30 p.m.  |                |

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 average attendance has been satisfactory and even shows some advance on previous years.

Renewed effort has been made to impress on mothers the importance of keeping their children under observation until they are passed on to the School Medical Service. Too often the good done during the first two years of life is lost by lack of supervision during the next critical period, and much preventative work could be done if the children were brought to the Centres for examination at *least* at each birthday. This work is most necessary in congested districts of the town, but is so far gravely hampered at the Hampton Road Centre by the inadequacy and unsuitability of the premises occupied.

The continuance of unemployment has rendered the problem of nutrition serious at times but it has been largely met by the sale of dried milk, etc., at reduced rates. The placing within the means of the poorest mother, of a clean, suitable food for her infant is a definite service to the community not to be grudged by any who have Child Welfare at heart.

As in the past, the voluntary and nursing staffs have carried out their duties with untiring enthusiasm and have thereby earned our grateful thanks.

During the year, 1929, mothers and children under five years of age, made 12,973 and 14,778 attendances respectively at the various Centres.

The Nursing Homes Registration Act, 1927, came into operation in 1928. 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.

#### NEW HALL ISOLATION HOSPITAL.

The advantages due to the possession of this Modern fully-equipped establishment were completely demonstrated during the past winter. Not-withstanding the mass of work originating in our own area, it was nevertheless found possible to afford substantial accommodation to our neighbours.

I append statement of the costings in the Institution and call attention to the Patient, Staff days ratio.

CALCULATION OF AVERAGE PATIENT DAY COST FOR 12 MONTHS 1st JANUARY TO 31st DECEMBER, 1929.

|                    | Тот     | AL FOR 12          | MONTHS.            | Av      | Average ffor 12 Months. |         |                |                    |          |  |  |
|--------------------|---------|--------------------|--------------------|---------|-------------------------|---------|----------------|--------------------|----------|--|--|
|                    | Total.  | Tuber-<br>culosis. | Other<br>Diseases. | Tot     | Tuber-<br>culosis.      |         |                | Other<br>Diseases. |          |  |  |
| Provisions         | £ 2,400 | £<br>968           | £<br>1,432         | s.<br>1 | d.<br>83                | s.<br>1 | d.<br>10½      | s.<br>1            | d.<br>7½ |  |  |
| Drugs, etc.        | 628     | 227                | 401                |         | 51                      |         | $5\frac{1}{2}$ |                    | 51       |  |  |
| Salaries and Wages | 2,174   | 668                | 1,506              | 1       | 63                      | 1       | $3\frac{3}{4}$ | 1                  | 81       |  |  |
| Rates and Taxes    | 455     | 113                | 342                |         | 4                       |         | $2\frac{1}{2}$ |                    | 43       |  |  |
| Fuel, Light, Water | 1,574   | 605                | 969                | 1       | $1\frac{1}{2}$          | 1       | 2              | 1                  | 14       |  |  |
| Domestic Renewals  | 373     | 92                 | 281                |         | 31                      |         | 2              |                    | 4        |  |  |
| Other Items        | 300     | 105                | 195                |         | $2\frac{1}{2}$          |         | $2\frac{1}{2}$ |                    | 21/2     |  |  |
| Structural Repairs | 525     | 189                | 336                |         | $4\frac{1}{2}$          |         | $4\frac{1}{2}$ |                    | 41/2     |  |  |
| Loan Charges       | 7,521   | 1,930              | 5,591              | 5       | $5\frac{1}{4}$          | 3       | $9\frac{1}{4}$ | 6                  | 43       |  |  |
|                    | 15,950  | 4,897              | 11,053             | 11      | 6                       | 9       | $6\frac{1}{2}$ | 12                 | 74       |  |  |
| Income             | 965     | 106                | 859                |         | 81/2                    |         | $2\frac{1}{2}$ |                    | 113      |  |  |
|                    | 14,985  | 4,791              | 10,194             | 10      | 91                      | 9       | 4              | 11                 | 71       |  |  |

Borough Treasurer's Dept., Southport.

Patient-day Total 27,743 10,246 17,497

Staff-day Total 9,623

Ratio of Patient-days to Staff-days: 100: 34.7.

MATERNITY DENTAL CLINIC—YEAR 1929. SUMMARY OF WORK.

| кө.               | Ве-та            |     | -   | -    | 1     | -     | 63  | 1    | 4    | 1      | 67   | 1                                       | 1   | 67     | 15     |
|-------------------|------------------|-----|-----|------|-------|-------|-----|------|------|--------|------|---|-----|--------|--------|
| .1                | Repai            |     | 63  | 1    | 60    | 5     | 4   | 60   | 1    | 1      | 67   | 9                                       | -   | 67     | 53     |
| are               | =                | L.  | -   | 01   | -     | 1     | -   | 1    | 4    | 1      | -    | 10                                      | 5   | 67     | 22     |
| Finished Denture  | Full             | U.  | 00  | 4    | 61    | 1     | -   | 1    | 65   | 1      | 8    | 3                                       | 20  | 63     | 26     |
| shed              | tial             | T.  | 1   | -    | 1     | 1     | -   | 1    | 1    | 1      | 63   | -                                       | 1   | 1      | 10     |
| Fini              | Partial          | U.  | 1   | -    | -1    | 1     | -   | 1    | 1    | 1      | -    | -                                       | 1   | 1      | 4      |
| u                 | Try I            |     | =   | 9    | 5     | 5     | 9   | 67   | 13   | 63     | 9    | 13                                      | 00  | 60     | 79     |
| кеп               | Bite Ta          |     | 60  | ಣ    | 63    | 1     | -   | 4    | 4    | 61     | 7    | 9                                       | 63  | 00     | 37     |
| snoi              | Impress<br>Takei |     | 29  | 14   | 4     | 00    | 6   | 10   | 15   | 9      | 32   | 23                                      | 20  | 9      | 176    |
| .bed.             | Examin           |     | 10  | =    | 6     | 9     | 9   | 6    | 15   | 6      | 16   | 12                                      | 11  | 9      | 120    |
| .snoite           | elia Affe        | O   | 11  | 15   | ==    | 9     | 9   | 5    | 5    | -      | 7    | ======================================= | ==  | 24     | 113    |
| -39               | Scalin           |     | 61  | 1    | 1     | 60    | -   | 1    | 1    | 1      | 1    | 6.1                                     | 63  | 1      | 10     |
| ·20               | Dressin          |     | 4   | 7    | 1     | 4     | 7   | 1    | 1    | 1      | 1    | 67                                      | 1   | 22     | 26     |
| .anemt.           | tearT teat       | Roc | 6   | 1    | -     | -     | 60  | 1    | 1    | 1      | 10   | 6                                       | 1   | 1      | 34     |
| 82                | Fillin           |     | 13  | 1    | 1     | 5     | 9   | -    | 1    | 1      | 24   | 15                                      | 4   | 1      | 70     |
| stics             | Gen.             |     | -   | 60   | 60    | 1     | 1   | 60   | 1    | 1      | 63   | 1                                       | 61  | 1      | 20     |
| Anaesthetics      | Loc. N2O Gen     |     | 1   | 1    | 1     | 1     | 1   | 1    | 1    | 1      | 1    | 1                                       | 1   | 1      | 1      |
| Ans               | Loc.             |     | =   | 9    | 10    | 13    | 25  | 36   | 38   | 7      | 31   | 45                                      | 12  | 17     | 251    |
| 'suo              | Extracti         |     | 41  | 20   | 67    | 15    | 44  | 110  | 64   | 35     | 88   | 70                                      | 20  | 42     | 677    |
|                   | New Ca           |     | 9   | -    | 60    | 5     | 00  | 60   | 12   | 4      | ==   | 00                                      | -   | 10     | 79     |
| Number<br>Treated | stisiv           | Re- | 33  | 37   | 33    | 28    | 34  | 32   | 52   | 15     | 61   | 77                                      | 51  | 41     | 494    |
| Nur               | stisiv           | lst | 37  | 12   | Ξ     | 6     | 14  | 7    | ==   | 9      | 16   | 15                                      | 6   | 9      | 153    |
|                   | ointmer          | IdV | 64  | 99   | 53    | 45    | 48  | 39   | 58   | 19     | 59   | 75                                      | 28  | 20     | 624    |
|                   | Date.            |     | Jan | Feb. | March | April | May | June | July | August | Sept | Oct                                     | Nov | Dec. — | Totals |

## SUMMARY OF VARIOUS CLINICS.

Days and Times of Attendances.

|   | Monday   | Tuesday   | Wednesday  | Thursday   | Friday   | Saturday   |
|---|--|---|--|--|--|--|
| Ifant Welfare Centres— Liverpool Road High Park Crossens Hampton Road Hoghton Street  |  | 2–30  | 2-30<br>2-30   | 2-30   | 2-30   |  |
| ewing Classes :<br>High Park  |  |   |  | 2-30   | prior.   |  |
| nte-Natal Clinic—  2, Church Street  Maternity Ward, Curzon Road  |  | 10-0  |  |  | 11-0   |  |
| laternity Dental Clinic   |  | 2 p.m.  |  |  | 2 p.m.   |  |
| chool Clinic, 2, Church St.  Minor Ailment Clinic Ophthalmic Clinic Skin Clinic Tonsil and Adenoid Clinic Artificial Sunlight Treatment Clinic Nasal Clinic Aural Clinic Treatment Clinic Dental Clinic | 2–30<br>9–30<br>9–30 and<br>2 p.m.                               | 2-30<br>9-30<br>9-30 and<br>2 p.m.                              | 9–30<br>9–30<br>9–30 and<br>2 p.m.                       | 2-30<br>9-30 (when<br>necessary)<br>10-0<br>9-30<br>9-30 and<br>2 p.m. | 2-30<br>9-30<br>2-30<br>9-30<br>9-30 and<br>2 p.m.       | 9–30   |
| uberculosis Dispensary  |  | 2 p.m.  |  |  |  |  |
| Venereal Diseases— Southport Infirmary— Clinic—Men ,, Women Treatment Clinic—Men  ,, Women ,, Women   | 5-30<br>8-30—10<br>a.m.<br>6—8 p.m.<br>10—12<br>a.m.<br>2—4 p.m. | 2-0<br>8-30-10<br>a.m.<br>6-8 p.m.<br>10-12<br>a.m.<br>6-8 p.m. | 8-30—10<br>a.m.<br>6—8 p.m.<br>10—12<br>a.m.<br>2—8 p.m. | 5-30<br>8-30—10<br>a.m.<br>6—8 p.m.<br>10—12<br>a.m.<br>2—4 p.m.       | 8-30—10<br>a.m.<br>6—8 p.m.<br>10—12<br>a.m.<br>2—8 p.m. | 8-30—10<br>a.m.<br>6—8 p.m.<br>10—12<br>a.m.<br>2—8 p.m. |

# Southport Blind Welfare Committee.

The arrangements made with the Manchester and Salford Blind Aid Society have been continued.

| On the Register 31st December, 192                              | 8       |        | *****    | ,       | *****  | 102        |  |  |  |  |
|---|---------|--------|----------|---------|--------|------------|--|--|--|--|
| REMOVED FROM THE REGISTER                                       |         |        |          |         |        |            |  |  |  |  |
|   |         |        |          |         | )      |            |  |  |  |  |
| Males 1, sight improved, age 14 Females 1, left the town        | *****   | *****  | ******   |         |        | 4          |  |  |  |  |
| ,, 2, deceased, aged 85, 82                                     | ******  | ****** | 20000    |         |        |            |  |  |  |  |
|   |         |        |          |         |        |            |  |  |  |  |
| REGISTERED DURING THE YEAR                                      |         |        |          |         |        |            |  |  |  |  |
| Males, age 63, 2  |         |        | *****    | *****   | )      |            |  |  |  |  |
| Females, age 73, 53, 33   |         |        |          |         | }      | 5          |  |  |  |  |
| On the Register 31st December, 1929.                            |         |        |          |         |        |            |  |  |  |  |
| Under 15 16–21  | 22-49   |        | 50-69    | 70      | & over |            |  |  |  |  |
| MALES 9 2   |         |        |          |         | 11     | 40         |  |  |  |  |
| FEMALES 5 0   |         |        |          |         | 14     | =4         |  |  |  |  |
| FEMALES 0   | 14      |        | 21       |         | 14     | 04         |  |  |  |  |
|   |         |        | TO       | ΓAL     |        | 103        |  |  |  |  |
| Children in "Sunshine House"                                    |         |        |          |         |        | 31         |  |  |  |  |
| Persons in receipt of Old Age Per                               |         |        |          |         |        | 57         |  |  |  |  |
| Visits paid by the Home Teacher                                 |         |        |          |         |        | 725        |  |  |  |  |
| Classes held for instruction                                    |         |        |          |         | *****  | 62         |  |  |  |  |
| Social gatherings held during the                               | winter  | mor    | nths     | ******  | ****** | 17         |  |  |  |  |
| RESIDENT IN INSTITUTION FOR                                     | 2 THE   | RI.    | IND      |         |        |            |  |  |  |  |
| MESIDENT IN INSTITUTION FOR                                     | v IIII  | , DL   |          | les.    | F      | emales     |  |  |  |  |
| Royal Normal College, London                                    |         |        | l age la | 8       |        | _          |  |  |  |  |
| Hardman Street, Liverpool                                       |         |        | 2 ,, 3   |         |        | 1 age 22   |  |  |  |  |
| Wavertree Schools for the Blind                                 |         |        | 3 ,, 1   | 5, 11,  | 10     |            |  |  |  |  |
| Calderstones, Whalley "Sunshine House," Birkdale                |         |        | 1 ,, 2   | _       |        | 1 ,, 11    |  |  |  |  |
| Summino Ironso, Diring  |         |        | - ,, -   |         | ****** |            |  |  |  |  |
| GRANTS.   |         |        |          |         |        |            |  |  |  |  |
| Grants have been given to the am                                | nount o | of     |          |         |        | £520       |  |  |  |  |
| Persons receiving weekly grants                                 |         |        |          |         |        | 30         |  |  |  |  |
| Average weekly amount of grant<br>Augmentation paid to Home Wor | *****   | *****  | ******   | ******* | ****** |            |  |  |  |  |
|   |         | *****  | ******   |         | *****  | 7/2        |  |  |  |  |
| Average amount of weekly augme                                  | kers    |        | *****    |         | *****  | 7/2<br>£92 |  |  |  |  |
| Average amount of weekly augme<br>Number of Home Workers        | kers    |        | *****    |         | *****  | 7/2        |  |  |  |  |

#### INSTRUCTION, ETC.

Classes are held each Monday and Wednesday afternoon from 1-30 to 4-30 p.m. at the Technical Schools; average attendance, 9.

Instruction is given by Miss Mace (voluntary) and the Home Teacher in embossed reading and writing, typewriting, chair-seating, basketry, hand-knitting, etc. Instruction is also given to persons in their own homes where unable to attend the classes.

#### SOCIAL EVENTS.

On Wednesday, 14th August, 1929, the Rotarians of Southport and friends, provided Char-a-bancs and private cars and organised an outing for our people; 65 of our blind friends with their guides sat down to tea at the Ashton Gardens, St. Annes-on-Sea. After spending some time in the Gardens and by the shore, the return journey was made at 7 p.m. after a very enjoyable and much appreciated afternoon.

During the summer the instruction class made several short outings by train into the country and to Ainsdale Beach; breaks of this nature have a far-reaching effect and are of physical benefit.

Social gatherings are held almost weekly from October to May in the Unitarian Schoolroom, Portland Street; average attendance, 60.

Our thanks are due to: The Rotary Club; Toc H., for maintaining and keeping in order the Wireless Sets; the Advertising and Band Committee for free-seating in the Municipal Gardens; the Corporation Tramways for free passes; Dr. de Courcy and the Infirmary Staff; the Students of the Technical School for Acting as guides; and other friends.

#### GRANTS BEING PAID.

| Married<br>Males or<br>Widowers. | Single<br>Males. | Married<br>Females or<br>Widows. | Single<br>Females. |         | Average<br>Grant. |          | Average<br>Income,<br>per wwek. |  |  |
|----------------------------------|------------------|----------------------------------|--------------------|---------|-------------------|----------|---------------------------------|--|--|
| 10                               |                  |                                  |                    | s.<br>8 | d.<br>3           | s.<br>16 | d.<br>10                        |  |  |
|                                  | 3                |                                  | *****              | - 5     | 10                | 8        | 4                               |  |  |
| 4****                            | *****            | 6                                |                    | 7       | 4                 | 10       | 10                              |  |  |
|                                  | *****            | ******                           | 11                 | - 6     | 10                | 11       | 9                               |  |  |

# Supervision of Food Supplies.

| Supervision of rood Supplies.             |             |
|---|-------------|
| VISITS TO :—                              |             |
| Public Slaughter-houses                   | 510         |
| Private Slaughter-houses                  | 170         |
| Butchers' Shops                           | 2,540       |
| Fish and Poultry Shops                    | 2,377       |
| Other Shops                               | 6,648       |
| Restaurant or Hotel Kitchens (workplaces) | 42          |
| Ice-cream Workshops                       | 19          |
| Ice-cream Stalls                          | 45          |
| Potted Meat and Fish Works                | 107         |
| Piggeries                                 | 392         |
| Cowsheds                                  | 194         |
| Milk Farms outside the Borough            | 13          |
| Bacteriological Examination of Milk       | 100         |
| Private Premises where Pigs are killed    | 344         |
| 111vato 11cm ses where 11gs are kined     |             |
| UNCOUND FOOD DECEDOVED                    | 13,501      |
| UNSOUND FOOD DESTROYED.                   |             |
| Under Magistrate's Order :—Nil.           |             |
| By Consent of Owner or Consignee :—       |             |
| Beasts' Carcases and all Organs           | 46          |
| Beast's Livers                            | 62          |
| Beasts' Lungs (sets)                      | 128         |
| Beef (lbs.)                               | 25          |
| Beef (corned) lbs.                        | 6           |
| Beasts' Heads                             | 3           |
| Pigs' Livers                              | 85          |
| Pigs' Carcases and all Organs             | 30          |
| Pigs' Lungs (sets)                        | 103         |
| Pork (lbs.)                               | 102         |
| Sheeps' Carcases and all Organs           | 16          |
| Lambs' Carossas and all Organs            | 3           |
| Lambs' Carcases and all Organs            | 5           |
| Peasts Stomachs                           | 1           |
| Beasts' Intestines                        | 3           |
| Pigs' Heads                               |             |
| Beasts' Mesenteric Fat                    | 46          |
| Sheep's Liver                             | 22          |
| Beasts' Spleens                           | 8           |
| Beasts' Skirts                            | 13          |
| Pigs' Hearts                              | 18          |
| Chickens                                  | 1           |
| Pigs' Stomachs                            | 12          |
| Beast's Udder                             | 1           |
| Beast's Tongue                            | 1<br>3<br>3 |
| Calves Carcases and all Organs            | 3           |
| Turkeys                                   | 3           |
| Ox Tongue (lbs.)                          | 12          |
| Halibut (lbs.)                            | 62          |
| Sheep's Lungs                             | 3           |
| Cod Fillets (lbs.)                        | 206         |
| Frozen Eggs (lbs.)                        | 84          |
| Prawns (lbs.)                             | 8           |
| Liquid Eggs (lbs.)                        | 42          |
| 54  |             |

## FOOD AND DRUGS ACT.

## SUMMARY OF SAMPLES SUBMITTED FOR ANALYSIS.

| Inf              | ormal              | Sample     | 8.                          |                                     |                  | Fo                 | ormal S    | Samples.                    |                       | PER          |
|------------------|--------------------|------------|-----------------------------|-------------------------------------|------------------|--------------------|------------|-----------------------------|-----------------------|--------------|
|                  |                    | Adult      | terated                     |                                     |                  |                    | Adul       | terated                     |                       |              |
| Number<br>Taken. | Number<br>Genuine. | Materially | Trivially<br>or<br>doubtful | Nature of Sample.                   | Number<br>Taken. | Number<br>Genuine. | Materially | Trivially<br>or<br>doubtful | Vendors<br>Cautioned. | Prosecutions |
| 12               | 8                  | 3          | 1                           | Milk                                | 80               | 70 -               | 8          | 2                           | 1                     | 2            |
| 1 1              | 1                  | _          | _                           | Liquorice Powder<br>Cream of Tartar | _                | _                  | _          | _                           | _                     | _            |
| 2 2              | 2                  | _          | _                           | Coffee                              | -                | -                  | _          | -                           | -                     |              |
| 2 9              | 2 2                | -          | -                           | Cocoa                               |                  | _                  | -          | -                           | -                     | -            |
| 2 1              | 1                  |            |                             | Lime Juice Cordial<br>Butter        | 22               | 21                 | _          | 1                           | 1                     | _            |
| 1                | 1                  | _          | _                           | Cheese                              | 9                | 8                  | 1          | -                           | -                     | 1            |
| 1                | 1                  | -          |                             | Raspberry Jam                       | 2                | 2                  | -          | -                           | _                     |              |
| 2                | 2                  | _          | _                           | Cod Liver Oil<br>Camphorated Oil    |                  |                    | _          | _                           | _                     |              |
| 1                | 1                  |            | _                           | Raspberry Vinegar                   | -                | -                  | _          | -                           | -                     | -            |
| 1 2              | 1 2                |            |                             | Liquid Ex. of Cascara               | -                |                    | -          | -                           | -                     | -            |
| 1                | 1                  | _          |                             | Damson Jam<br>Grape Fruit Marma-    | _                |                    |            |                             | =                     |              |
| 20               |                    |            |                             | lade                                |                  |                    |            |                             |                       |              |
| 1                | 1                  | -          | -                           | Lemon Cheese                        | -                | -                  | _          | -                           | -                     |              |
| 1                | 1                  |            | _                           | Black Current Jam<br>Lard           | 6                | 6                  | _          |                             | =                     | _            |
|                  |                    |            | -                           | Beef Sausage                        | 2                | 2                  | _          |                             | _                     | -            |
| 2                | 2                  | -          | -                           | Seidlitz Powder                     | -                |                    | _          | -                           | -                     | -            |
| 1 1              | 1                  | -          | -                           | Epsom Salts                         | _                | -                  | -          | -                           |                       | -            |
| _                | -                  | _          | _                           | Red Current Jelly                   | 1                | 1                  | _          | _                           | _                     | _            |
| -                | _                  | -          |                             | Strawberry Jam                      | 2                | 2                  | _          | -                           | -                     | -            |
| -                | 1                  | -          | -                           | Pork Sausage                        | 7                | 7                  | -          | -                           | -                     |              |
| 1                | 1                  |            |                             | Olive Oil                           |                  |                    |            | _                           |                       |              |
| 1                | 1                  | -          | -                           | Ex. of Malt and Cod<br>Liver Oil    | -                | -                  | -          | -                           | -                     | -            |
| 1                | 1                  | -          | -                           | Syrup of Senna                      | -                | -                  | -          | -                           | -                     |              |
| 1                | 1                  | -          | -                           | Gregory Powder                      |                  | _                  | -          | -                           | _                     | _            |
| 1                | 1                  |            |                             | Ground Almonds                      |                  | _                  |            |                             | _                     |              |
| 1                | 1                  |            |                             | Blackberry Jelly                    | -                | -                  | _          | -                           | -                     |              |
| 1                | 1                  | -          | -                           | Ginger Marmalade                    | -                | -                  | -          | -                           | -                     | -            |
| 1                | 1                  |            | _                           | Apricot Jam<br>Tinned Tomatoes      | 1                | 1                  | _          | _                           | _                     |              |
| 1                | î                  |            |                             | ,, Cream                            | _                | _                  | _          | _                           | _                     | _            |
| 1                | 1                  | -          | -                           | ,, Bloater Paste                    | -                | -                  | -          | -                           | -                     | -            |
| 1                | 1                  | -          |                             | ,, Peas<br>Self Raising Flour       |                  | _                  | _          | -                           | _                     | _            |
| 1                | 1                  | _          |                             | Cream Cake                          |                  | _                  | _          | =                           | _                     |              |
| 1                | 1                  |            | -                           | Sponge Cake                         | -                | -                  | -          | -                           | -                     | -            |
| 1                | 1                  | _          | -                           | Potted Shrimps<br>Beef Suet         | -                | _                  |            | -                           | _                     |              |
| 1                | 1                  | -          |                             | Potted Meat                         |                  |                    | _          | _                           |                       | -            |
| 2                | _                  |            | 2                           | Iron and Arsenic                    | -                | _                  |            | -                           | -                     | -            |
|                  |                    |            | 7000                        | Mixture                             | 1                | 1                  |            |                             |                       | _            |
| _                | _                  | -          | _                           | Mincemeat<br>Whiskey                | 5                | 5                  | _          | _                           |                       | _            |
| -                | -                  | _          | - 1                         | Rum                                 | 2                | 2                  | -          | -                           | -                     | -            |
| -                | -                  | -          | -                           | Gin                                 | 1                | 1                  | -          | -                           | -                     | -            |
| 57               | 51                 | 3          | 3                           |                                     | 142              | 130                | 9          | 3                           | 2                     | 3            |

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

#### BUTTER.

One formal sample was reported against which contained  $16\cdot17\%$  of water. The maximum amount of water allowed in Butter is  $16\cdot00\%$ . The Vendor was cautioned.

#### CHEESE.

One formal sample was reported against by the Analyst. He certified that it was made from milk which had been deprived of 37% of its Fat. Proceedings were instituted; the Magistrates at the first hearing failing to agree referred the case to another bench. At the second hearing the case was dismissed.

#### MILK.

14 samples were reported against; proceedings were taken against the farmer in two cases, in the first case he was fined £10 and in the second £5. In the other cases no proceedings were taken, although the Analyst's Report showed deficiency. The Department, besides entertaining doubt as to whether there was in fact an offence, were satisfied there was no prospect of securing a conviction.

#### SLAUGHTER-HOUSES.

The time is close at hand when the whole question of the Public Slaughterhouses 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 freeheld 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 1929 there were 21,153 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<br>Slaughter-houses |         |        | In the<br>Six Private |        |         |  |  |
|--------|-----------------------------------|---------|--------|-----------------------|--------|---------|--|--|
|        | Public                            | Rented. | Slai   | ighter-hous           | ses.   | Totals. |  |  |
| Cattle | 686                               | 1,153   |        | 723                   | ****** | 2,562   |  |  |
| Calves | 426                               | 754     |        | 130                   |        | 1,310   |  |  |
| Sheep  | 3,589                             | 13,958  | ****** | 8,465                 | ****** | 26,012  |  |  |
| Pigs   | 587                               | -       |        | 256                   | *****  | 843     |  |  |
| Total  | 5,288                             | 15,865  | ****** | 9,574                 |        | 30,727  |  |  |

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

#### PRIVATE SLAUGHTER-HOUSES.

There are six Private Slaughter-houses in the District. Of these, the three in use 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.

The President and Members of the Butchers' Association are maintaining a trade of a specially high class of which they are justifiably proud.

#### BACTERIOLOGICAL EXAMINATION OF MILK.

|   | Prod<br>in | es from<br>ucers<br>the<br>ough. | Samples from<br>Producers<br>outside the<br>Borough. |    |  |
|---|------------|----------------------------------|--|----|--|
| Samples from Bulk                           | (a)        | 5                                | (a)  | 95 |  |
| Of which found to be Tuberculous            |            | 0                                | (b)  | 4  |  |
| (a) Guinea Pigs died before test completed. |            | 13                               |  |    |  |

The four farms from which the Tuberculous samples came were visited by the County Veterinary Inspector and the Borough Veterinary Inspector.

Case No. 1.—Three samples were taken, two from individual cows and one a mixed sample from 17 other cows. In the sample from a suspected cow which was separated from the rest of the herd, tubercle bacilli were found, and the cow was dealt with under the Tuberculosis Order. In addition another cow was dealt with under the Tuberculosis Order at the time of inspection, the symptons in this cow being so marked it was not deemed necessary to take a sample.

Case No. 2.—A mixed sample was taken from 20 cows. Tubercle bacilli were not found. One animal from which no sample was taken was dealt with under the Tuberculosis Order by the County Veterinary Officer on his clinical examination.

Case No. 3.—The Veterinary Inspectors examined 21 cows and found no clinical signs of Tuberculosis. Three mixed samples of milk were taken but Tubercle bacilli were not found in them.

Case No. 4.—The herd was examined and one individual and two mixed samples were taken. Tubercle bacilli were found in the individual sample, and the animal was dealt with under the Tuberculosis Order. The two mixed samples were negative.

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 1929 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 | 896 |
|---------|------------|----|-----|------------|-----------|-----|
|         | ost-morten |    |     |            |           | 7   |

#### REGISTERED COWKEEPERS AND PURVEYORS OF MILK.

|             |        | Cowkeepers and |            |
|-------------|--------|----------------|------------|
| Cowkeepers. |        | Purveyors.     | Purveyors. |
| 11          | ****** | 59             | <br>154    |

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 :— Tuberculosis    | Town<br>12 |        | Country. |
|-------------------------|------------|--------|----------|
| Accident                | 21         |        | 1        |
| Dropsical Emaciation    | 4          |        | 1        |
| Pneumonia               | 3          |        | 6        |
| Peritonitis             | 2          |        | 2        |
| Jaundice<br>Swine Fever | 3          | ****** | _        |
| Swine Pever             |            | ****** |          |
|                         | 57         |        | 40       |
|                         | -          |        | -        |

# Water Supply.

"No Purer Water occurs in Nature."

The water supply is maintained by the Southport and District 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, 1929, show that the Board then supplied, direct, an estimated Population, excluding Summer Visitors, of 106,200. The average domestic consumption, excluding Meter supplies and based on this population figure, was at the rate of about 24·24 gallons per head per day; and the total consumption 31·49.

#### 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 charge 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, 16th JULY, 1929.

### CHEMICAL.

| *************************************** | Parts per       |
|---|-----------------|
|   | 100,000         |
| Calcium Carbonate                       | 19.21           |
| Magnesium Carbonate                     | 4.15            |
| Calcium Sulphate                        | 1.02            |
| Magnesium Sulphate                      | 7.95            |
| Magnesium Chloride                      |                 |
| Sodium Carbonate                        |                 |
| Sodium Chloride                         |                 |
| Potassium Carbonate                     | 67              |
| Silica, etc.                            | 40              |
|   |                 |
|   | 41.88           |
| Temporary hardness                      | 24.1            |
| Permanent hardness                      | 0.0             |
| Total hardness                          | 34.0            |
| Free Ammonia                            | Nil.            |
| Organic Ammonia                         |                 |
| Oxygen absorbed in 3 hours              | 010             |
| Nitrates                                | Nil.            |
| Nitrites                                |                 |
| Lead                                    | Nil.            |
| Colour seen in a 2-foot tube            | Pale Blue Green |
| Appearance Bright                       | t and Sparkling |
|   | 77              |

The composition of the water continues constant and it fully maintains its remarkable organic purity.

## HERBERT E. DAVIES.

### BACTERIOLOGICAL.

| No. of organisms per c.c. capble 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<br>double strength bile salt lactose broth (Tubes were<br>incubated for 3 days) | absent in 100 c.c. |
| Streptococci absent in 100 c.c. of water.<br>Bac. Enteritidis Sporogenes absent in 100 c.c. of water.                                      |                    |

W. HOWEL EVANS.

### RESULTS FOR CONSECUTIVE YEARS.

|  |     | Temporar | y.          | Permaner | nt.                                     | Total. |
|--|-----|----------|-------------|----------|---|--------|
| 1913-Nov. 2  | 8th | 26.5     |             | 12.0     | *************                           | 38.5   |
| 1913—Dec. 1  | 8th | 22.6     |             | 16.4     | *************************************** | 39.0   |
| 1915-Mar. 18   | 8th | 24.0     |             | 12.0     |   | 36.0   |
| 1915-Mar. 2  | 3rd | 21.0     |             | 12.4     |   | 33.4   |
| 1916—Feb.  | 3rd | 26.2     |             | 7.6      |   | 33.8   |
| 1917—Feb. 1  | 7th | 18.7     |             | 9.6      |   | 28.3   |
| 1918—Jan. 2  | 9th | 18.6     |             | 9.9      |   | 28.5   |
| 1919—Jan. 1  | 3th | 24.9     |             | 17.0     |   | 41.9   |
| 1919—Dec. 3  | 0th | 25.5     |             | 14.6     |   | 40.1   |
| 1920—Dec. 1  | 6th | 23.0     |             | 12.8     |   | 35.8   |
| 1921—June 2  | 9th | 25.5     |             | 13.8     |   | 39.3   |
| 1922-Nov. 2  | 3rd | 23.2     |             | 12.7     | ******                                  | 35.9   |
| 1923—Oct.  | 9th | 23.2     |             | 12.4     |   | 35.6   |
| 1924—Oct. 2  | 1st | 23.7     |             | 13.4     |   | 37.1   |
| 1925—Sept. 3   | 0th | 23.7     | *********** | 11.6     | **********                              | 35.3   |
| 1926—Oct.  | 5th | 20.5     |             | 9.1      |   | 29.6   |
| 1927—Dec. 2  | 4th | 24.6     |             | 8.8      |   | 33.4   |
| 1928—Oct. 1  | 9th | 22.0     |             | 12.6     |   | 34.6   |
| 1929-July 1  | 6th | 24.1     |             | 9.9      |   | 34.0   |
| The state of the s |     |          |             |          |   |        |

# Meteorology.

### Local Weather.

Regarded as a whole, 1929 was a very unusually calm and sunny year, with a low mean relative humidity of the air. Few either quieter or brighter years are on record in the district. December alone was seriously windy, and even then no destructive gale occurred at Southport; while only February and November were materially short of sunshine. January and February were very cold—the latter in particular; but most of the Spring and all months in the later half of the year, were warmer than usual. Rainfall was deficient throughout the first nine months, with the exception of August, but the drought never became seriously acute, and November and December were extremely wet. The extraordinary scarcity of snow at Southport during recent years continued. Until May, winds from northerly to easterly points (chiefly easterly and south-easterly) greatly predominated; thenceforward, westerly and southerly directions were as notably preponderant. In no important respects, however, were such violently abnormal spells of weather experienced at Southport as characterised the year over very much of England and Wales.

### TEMPERATURE OF THE AIR.

| 1929 (    | Mean<br>Tempera<br>Hesketh | ture                                    | Deviatio<br>from<br>Normal |   |    | lute Ext<br>Marshsid<br>st              |    |
|-----------|----------------------------|---|----------------------------|---|----|---|----|
| January   | 35.9                       |   | -3.2                       |   | 55 |   | 25 |
| February  | 00.0                       |   | -5.9                       |   | 51 |   | 12 |
| March     | 10.7                       |   | +1.6                       |   | 65 |   | 20 |
| April     | 44.0                       | *************************************** | -0.8                       |   | 59 | *************************************** | 27 |
| May       | FO =                       |   | +1.6                       |   | 74 |   | 31 |
| June      | E0.0                       |   | -0.6                       | *************************************** | 73 |   | 38 |
| July      | 60.5                       |   | +1.1                       |   | 83 |   | 42 |
| August    | 70.0                       |   | +0.2                       |   | 72 |   | 43 |
| September |                            | *************************************** | +2.5                       |   | 73 |   | 39 |
| October   | 49.9                       |   | +0.7                       |   | 61 |   | 28 |
| November  | 44 ==                      |   | +1.6                       |   | 57 |   | 26 |
| December  | 42.7                       |   | +2.7                       |   | 55 |   | 28 |
|           |                            |   |                            |   | -  |   | _  |
| Year      | 48.4                       | *************************************** | +0.1                       |   | 83 |   | 12 |
|           |                            |   |                            |   | -  |   | -  |

It will be seen from the foregoing figures that the mean temperature of the year was fully equal to the local normal. There were no striking extremes. The severe weather in February was a "south-east frost," an extension westwards of a great Continental frost—a very different matter in Lancashire, to one of a more northerly character.

### SUNSHINE AND OZONE.

|           | Duration | n | Deviation | 1 |       |    | Mean    |
|-----------|----------|---|-----------|---|-------|----|---------|
|           | of       |   | from      |   | No.   | of | Daily   |
| 1929      | Sunshine | е | Normal    |   | Sunle |    | Ozone   |
|           | Hours.   |   | Hours.    |   | days  |    | 0 to 10 |
| January   | 39.3     |   | - 4.0     |   | 17    |    | 9.9     |
| February  |          |   | -16.8     |   | 17    |    | 1.8     |
| March     | 187.5    |   | +68.6     |   | 2     |    | 2.3     |
| April     | 201.4    |   | +29.9     |   | 1     |    | 4.4     |
| May       | 244.6    |   | +35.9     |   | 0     |    | 3.8     |
| June      | 265.4    |   | +53.2     |   | 0     |    | 4.0     |
| July      | 208.3    |   | + 4.9     |   | 1     |    | 3.5     |
| August    | 165.3    |   | -10.9     |   | 1     |    | 4.3     |
| September | 156.9    |   | +17.6     |   | 2     |    | 2.7     |
| October   |          |   | +12.1     |   | 2     |    | 4.2     |
| November  | 43.3     |   | -13.0     |   | 14    |    | 2.7     |
| December  | . 58.3   |   | +21.6     |   | 9     |    | 4.7     |
| Year      | 1730.0   |   | +199·1    |   | 66    |    | 3.4     |

March was very exceptionally sunny, and December unprecedentedly so; while the total sunshine for the entire year has only once (viz.: in 1911), been certainly exceeded, and twice approximately equalled, since the local records of that element were commenced, nearly 39 years ago.

### RAINFALL.

|           |          | ] | Deviation |    |       | ]     | Duration |
|-----------|----------|---|-----------|----|-------|-------|----------|
|           | Total    |   | from      | N  | umbe  | er of | Definite |
| 1929      | Rainfall |   | Normal    | 0  | f day | 8     | Rainfall |
|           | Inches.  |   | Inches.   | wi | th ra | in    | Hours.   |
| January   | 1.40     |   | -1.28     |    | 14    |       | 39.9     |
| February  |          |   | -1.21     |    | 10    |       | 26.4     |
| March     |          |   | -1.39     |    | 6     |       | 17.8     |
| April     |          |   | -0.94     |    | 11    |       | 26.5     |
| May       |          |   | -0.25     |    | 13    |       | 40.2     |
| June      |          |   | -0.94     |    | 12    |       | 32.2     |
| July      |          |   | -0.48     |    | 13    |       | 32.3     |
| August    |          |   | +0.36     |    | 21    |       | 64.8     |
| September |          |   | -1.23     |    | 6     |       | 19.9     |
| October   | 4.52     |   | +0.81     |    | 26    |       | 68-9     |
| November  | 6.22     |   | +3.15     |    | 24    |       | 108-6    |
| December  | 5.62     |   | +2.35     |    | 28    |       | 94.8     |
|           |          |   |           | -  | -     |       |          |
| Year      | 32.06    |   | -1.05     |    | 184   |       | 572.3    |
|           |          |   | -         | _  | -     |       |          |

Notwithstanding the deficiencies of rainfall in eight months, no records were quite broken. March was, indeed, the driest month of its name, with one exception (viz.: that of 1893), in 59 years' observations; but November was the wettest, also with one exception (viz.: 1890), during the same period. No serious shortage of rainfall for the year as a whole had been expected, and the deficiency which eventuated was scarcely more than an inch. There were also only six fewer days with rain than the average number.

### HUMIDITY AND SUBSOIL WATER LEVEL.

|           | Humidit<br>of the ai | •    | eviatio<br>from | n I                                   | Mean Le |   | Deviation<br>from |
|-----------|----------------------|------|-----------------|---------------------------------------|---------|---|-------------------|
|           | at 9 a.m             |      | Normal          | i i i i i i i i i i i i i i i i i i i | Water   |   | Normal            |
|           | % of                 |      | % of            |                                       | a       |   |                   |
| 1929      | Saturatio            | n Sa | turatio         | on                                    | Inches  | 3                                       | Inches            |
| January   | 90                   |      | +2              |                                       | . 35.2  |   | +1.3              |
| February  | 05                   |      | -3              | ****************                      | . 38.2  | *************************************** | +5.7              |
| March     | 85                   |      | +1              |                                       | 41.4    |   | +8.6              |
| April     | 71                   |      | -8              |                                       | . 44.7  |   | +10.0             |
| May       | 71                   |      | -5              |                                       | . 46.8  |   | +9.2              |
| June      | 72                   |      | -3              |                                       | . 50.9  |   | +9.3              |
| July      | 73                   |      | -5              |                                       | . 55.2  |   | +9.6              |
| August    | 79                   |      | -1              |                                       | . 56.0  |   | +8.5              |
| September | 84                   |      | +2              |                                       | . 57.2  |   | +9.4              |
| October   |                      |      | -3              |                                       | . 54.9  |   | +8.8              |
| November  | 87                   |      | -1              |                                       | 46.2    |   | +4.3              |
| December  | 86                   |      | -3              |                                       | 35.1    |   | -3.1              |
|           | _                    |      |                 |                                       | -       |   |                   |
| Year      | 81                   |      | 2               |                                       | . 46.8  |   | +6.8              |
|           |                      |      | -               |                                       | -       |   |                   |

a Distance below Well-mouth.

Years with a drier atmosphere than that of 1929 are very infrequent; and it is noteworthy than even during the particularly rainy last quarter, the mean relative humidity of the air was decidedly low.

From March to October the subsoil water stood greatly beneath its normal level. A rapid rise then took place, and at the close of the year the water-level had become very definitely higher than usual.

### WIND DIRECTION (GROUPED).

|           | Dura | ation I | ercent | ages. |   | Devia | tions fr | om No | rmals.     |
|-----------|------|---------|--------|-------|---|-------|----------|-------|------------|
|           | N.E. | S.E.    | S.W.   | N.W.  |   | N.E.  | S.E.     | S.W.  | N.W.       |
|           | &    | &       | &      | &     |   | &     | &        | &     | &          |
|           | E.   | S.      | W.     | N.    |   | E.    | S.       | W.    | N.         |
| 1929      | %    | %       | %      | %     |   | %     | %        | %     | %          |
| January   | 30   | 37      | 5      | 28    | ************                            | +19   | + 2      | -35   | +14        |
| February  | 23   | 66      | 7      | 4     |   | + 6   | +31      | -26   | -11        |
| March     | 19   | 42      | 25     | 14    |   | - 3   | +17      | - 8   | - 6        |
| April     | 33   | 17      | 20     | 30    |   | +10   | - 3      | -14   | + 7        |
| May       | 30   | 30      | 29     | 11    | *************************************** | + 4   | + 9      | - 1   | -12        |
| June      | 16   | 17      | 43     | 24    |   | - 5   | 0        | +10   | - 5        |
| July      | 9    | 24      | 33     | 34    |   | - 7   | + 5      | _ 5   | + 7        |
| August    | 2    | 29      | 47     | 22    |   | -11   | + 6      | + 5   | 0          |
| September | 7    | 29      | 36     | 28    |   | -14   | + 2      | + 6   | + 6        |
| October   | 6    | 22      | 51     | 21    |   | -15   | -14      | +26   | + 3        |
| November  | 8    | 53      | 25     | 14    |   | -11   | +19      | - 4   | - 4        |
| December  | 3    | 43      | 44     | 10    |   | 13    | + 5      | +13   | <b>—</b> 5 |
| Year      | 16   | 34      | 30     | 20    | (6)                                     | _ 3   | + 7      | - 3   | - 1        |

The continuous scarcity of north-easterly and easterly winds from June to December was striking and remarkable; and there are sound reasons for fearing that it will be compensated for, and the frequency of cool north-westerly and northerly currents also be increased, during 1930 and/or 1931.

The year 1929 was, to an unusual extent, a south-easterly and southerly one; and, in consequence, most of it was exceptionally calm at Southport (as already stated).

(Signed) JOSEPH BAXENDELL,

Borough Meteorologist.

THE FERNLEY OBSERVATORY,
SOUTHPORT.

### ATMOSPHERIC POLLUTION—COMPARATIVE STATISTICS.

Monthly Means, at various Places, for the Year April, 1928, to March 1929. In Metric Tons per Square Kilometre.

| STATIONS.                            | (Per<br>Pollution<br>Gauge).<br>In Milli-<br>metres. | Tar.         | Carbon-<br>aceous,    |                       |                                    |                             |                |              |                 |                    |
|--------------------------------------|--|--------------|-----------------------|-----------------------|------------------------------------|-----------------------------|----------------|--------------|-----------------|--------------------|
|                                      |  |              | other<br>than<br>Tar. | Grit,<br>(as<br>Ash). | Total<br>Insol-<br>uble<br>Matter. | Total<br>Soluble<br>Matter. | TOTAL SOLIDS.  | Sulphates    | Chlorine (Cl.). | Ammonhi<br>(NH )J. |
| SOUTHPORT :—<br>Hesketh Park         | 72   | 0.05         | 0.61                  | 0.82                  | 1.48                               | 2.32                        | 3.80           | 0.56         | 0.67            | 0.05               |
| Edinburgh :—                         | =0   | 0.19         | 1.10                  | 2.20                  | 9.45                               | 0.50                        | = 00           | 0.50         | 0.20            | 0.00               |
| Leith Links<br>Princess Street       | 50<br>51   | 0·13<br>0·20 | 1·12<br>1·70          | 4.14                  | 3·45<br>6·04                       | 2·53<br>2·96                | 5·98<br>9·00   | 0.59         | 0.16            | 0.06               |
| Usher Institute                      | 53   | 0.18         | 0.89                  | 1.98                  | 3.05                               | 2.87                        | 5.92           | 0.87         | 0.17            | 0.11               |
| Glasgow :—                           | 00   | 0.10         | 0.00                  | 1 00                  | 3.00                               | 201                         | 0 02           | 001          | 011             | 0.11               |
| Alexandra Park                       | 66   | 0.09         | 2.14                  | 3.80                  | 6.03                               | 4.04                        | 10.07          | 1.32         | 0.38            | 0.15               |
| Bellahouston Park                    | 71   | 0.03         | 1.19                  | 2.35                  | 3.57                               | 4.52                        | 8.09           | 1.37         | 0.36            | 0.11               |
| Botanic Gardens                      | 70   | 0.05         | 1.33                  | 3.41                  | 4.79                               | 4.04                        | 8.83           | 1.37         | 0.37            | 0.10               |
| Queen's Park                         | 65   | 0.03         | 1.13                  | 2.03                  | 3.19                               | 3.10                        | 6.30           | 0.87         | 0.29            | 0.09               |
| Richmond Park                        | 69   | 0.07         | 2.07                  | 3.58                  | 5.72                               | 4.15                        | 9.87           | 1.40         | 0.39            | 0.18               |
| Ruchill Park                         | 78   | 0.08         | 1.45                  | 2.56                  | 4.09                               | 3.46                        | 7.56           | 1.12         | 0.41            | 0.15               |
| Tollcross Park                       | 59   | 0.08         | 1.70                  | 3.76                  | 5.54                               | 3.88                        | 9.43           | 1.21         | 0.29            | 0.13               |
| Newcastle-upon-Tyne                  |  |              |                       |                       |                                    |                             |                |              |                 |                    |
| City Road                            | 55   | 1.03         | 9.84                  | 14.02                 | 24.89                              | 6.98                        | 31.88          | 2.51         | 0.66            | 0.13               |
| Town Moor                            | 72   | 0.15         | 1.46                  | 1.68                  | 3.29                               | 5.29                        | 8.58           | 1.53         | 0.59            | 0.05               |
| Westgate Road                        | 64   | 0.31         | 3.26                  | 3.78                  | 7.35                               | 6.71                        | 14.06          | 2.09         | 0.54            | 0.08               |
| Leeds :                              |  |              | 0.00                  | 0.00                  | 1 00                               | 0.00                        | 4.00           |              | 0.40            |                    |
| Headingly                            | 50   | 0.05         | 0.68                  | 0.93                  | 1.66                               | 2.35                        | 4.02           | 0.57         | 0.42            | 0.11               |
| Hunslet                              | 48   | 0.14         | 1.87                  | 3.67                  | 5.68                               | 3.61                        | 9.29           | 0.92         | 0.51            | 0.08               |
| Park Square<br>York Road             | 52   | 0.27         | 2.17                  | 4.01                  | 6·45<br>6·19                       | 4.42                        | 10.87          | 1·20<br>0·97 | 0.67            | 0.07               |
|                                      | 48<br>42   | 0·14<br>0·11 | $\frac{2.35}{1.35}$   | 3·70<br>3·42          | 4.88                               | 3·61<br>6·60                | 9·80<br>11·48  | 2.05         | 0.02            | 0·09<br>0·16       |
| Kingston-upon-Hull<br>Wakefield :—   |  |              |                       |                       |                                    |                             |                |              |                 |                    |
| Clarence Park                        | 53   | 0.05         | 0.89                  | 1.02                  | 1.96                               | 2.86                        | 4.82           | *            | 0.47            | 0.03               |
| W.R. Rivers Board<br>Huddersfield :— | 48   | 0.22         | 2.12                  | 3.19                  | 5.53                               | 3.23                        | 8.77           | *            | 0.57            | 0.07               |
| Cooper Bridge                        | 49   | 0.01         | 1.25                  | 2.11                  | 3.37                               | 7.68                        | 11.06          | 2.16         | 1.21            | 0.41               |
| Deighton                             | 61   | 0.03         | 2.30                  | 2.96                  | 5.29                               | 9.28                        | 14.58          | 2.07         | 1.27            | 0.15               |
| Rochdale :-                          |  | 0.10         | 2.10                  |                       | 0.00                               | 0.00                        |                |              |                 |                    |
| Drake Street                         | 72   | 0.18         | 2.19                  | 4.56                  | 6.93                               | 3.50                        | 10.43          | 0.89         | 0.80            | 0.06               |
| Electricity Works                    | 82   | 0.20         | 4.06                  | 6.87                  | 11.13                              | 4.13                        | 15.26          | 1.14         | 0.96            | 0.09               |
| St. Mary's Church<br>Town Hall       | 59   | 0.14         | 2.98                  | 6.61                  | 9.77                               | 3.50                        | 13.27          | 0.91         | 0.62            | 0.08               |
| St. Helens                           | 80<br>69   | 0·14<br>0·18 | 1.96<br>4.19          | 3·05<br>6·95          | 5·15<br>11·32                      | 2·98<br>7·48                | 8.13           | 1.00         | 0.91            | 0.05               |
| Liverpool                            | 59   | 0.18         | 3.70                  | 9.72                  | 13.60                              | 7.59                        | 18·81<br>21·19 | 2·02<br>2·16 | 1·27<br>1·24    | 0·19<br>0·16       |
| Rotherham                            | 39   | 0.17         | 2.82                  | 6.70                  | 9.69                               | 3.22                        | 12.92          | 0.94         | 0.74            | 0.16               |
| Marple                               | 62   | 0.24         | 2.19                  | 1.91                  | 4.34                               | 2.67                        | 7.01           | 1.27         | 0.67            | 0.14               |
| Stoke -on-Trent                      | 56   | 0.21         | 1.28                  | 2.64                  | 4.13                               | 2.62                        | 6.76           | 0.71         | 0.51            | 0.03               |
| Loughborough                         | 46   | *            | *                     | *                     | 7.07                               | 3.87                        | 10.95          | *            | *               | *                  |
|                                      |  |              |                       |                       |                                    |                             |                |              |                 |                    |

<sup>\*</sup> NOT DETERMINED.

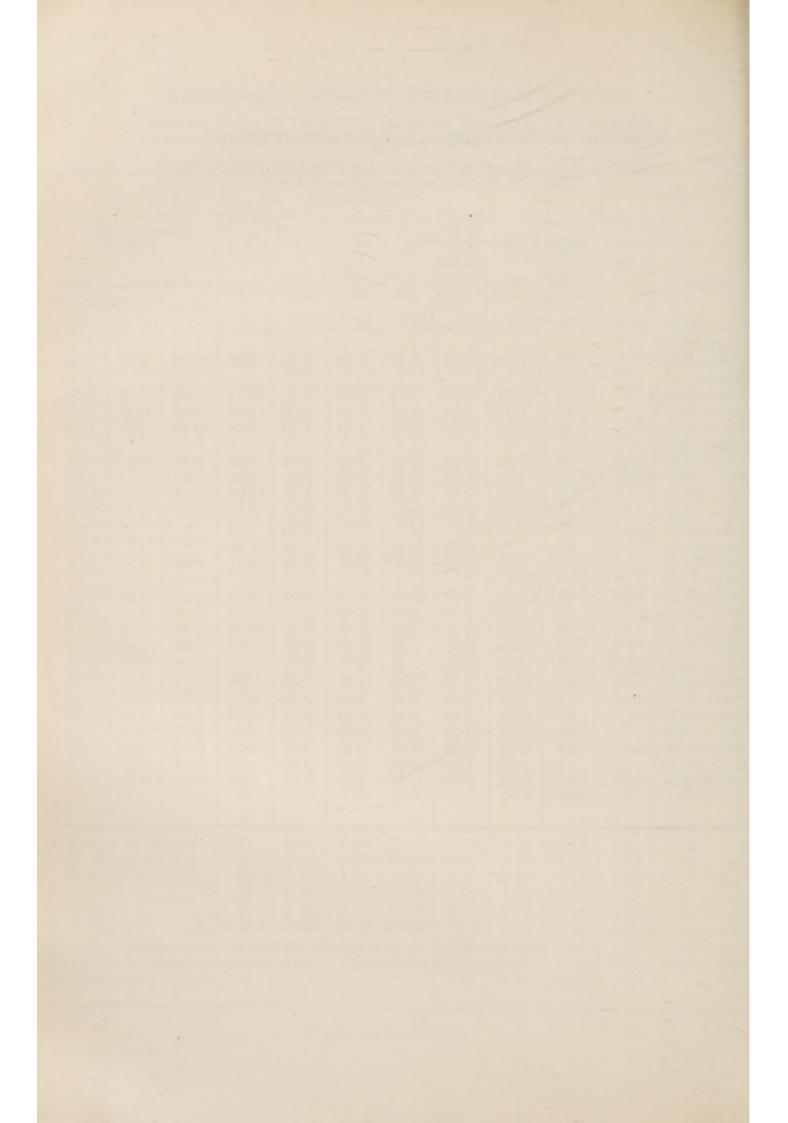
### ATMOSPHERIC POLLUTION—COMPARATIVE STATISTICS—cont.

Monthly Means, at various Places, for the Year April, 1928, to March 1929. In Metric Tons per Square Kilometre.

|                    | Rainfall<br>(Per                             | Inso | luble Mat                                   | ter.                  |                                    |                             |               | Inclue                        | ded in Sol<br>Matter. | luble                         |
|--------------------|--|------|---|-----------------------|------------------------------------|-----------------------------|---------------|-------------------------------|-----------------------|-------------------------------|
| STATIONS.          | Pollution<br>Gauge),<br>In Milli-<br>metres. | Tar. | Carbon-<br>aceous<br>other,<br>than<br>Tar. | Gr t,<br>(as<br>Ash). | Total<br>Insol-<br>uble<br>Matter. | Total<br>Soluble<br>Matter. | TOTAL SOLIDS. | Sulphates (SO <sub>2</sub> ). | Chlorine<br>(Cl.),    | Ammoni<br>(NH <sub>2</sub> ). |
| SOUTHPORT :-       |  |      |   |                       |                                    |                             |               |                               |                       |                               |
| Hesketh Park       | 72   | 0.05 | 0.61  | 0.82                  | 1.48                               | 2.32                        | 3.80          | 0.56                          | 0.67                  | 0.05                          |
| Leicester :—       |  |      |   |                       |                                    |                             |               |                               |                       |                               |
| Milton Street      | 35   | 0.21 | 2.70  | 5.62                  | 8.53                               | 4.25                        | 12.77         | 1.33                          | 0.32                  | 0.07                          |
| Town Hall          | 44   | 0.14 | 2.28  | 5.04                  | 7.46                               | 3.62                        | 11.08         | 1.06                          | 0.33                  | 0.04                          |
| Western Park       | 44   | 0.03 | 0.42  | 0.79                  | 1.24                               | 1.42                        | 2.66          | 0.30                          | 0.17                  | 0.01                          |
| Birmingham :—      |  |      |   |                       |                                    |                             |               |                               |                       |                               |
| Bournville Village | 46   | 0.03 | 0.58  | 0.91                  | 1.52                               | 1.84                        | 3.36          | 0.35                          | 0.21                  | 0.01                          |
| Bournville Works   |  | 0.04 | 0.73  | 1.16                  | 1.93                               | 1.97                        | 3.90          | 0.40                          | 0.24                  | 0.01                          |
| Central            | 37   | 0.16 | 2.18  | 6.39                  | 8.73                               | 4.23                        | 12.96         | 1.12                          | 0.44                  | 0.06                          |
| West Heath         | 40   | 0.04 | 0.45  | 1.23                  | 1.73                               | 1.86                        | 3.59          | 0.57                          | 0.28                  | 0.05                          |
| Houcester          | 45   | *    | *   | *                     | 3.17                               | 4.39                        | 7.56          | *                             | *                     | *                             |
| Rothamsted         | 43   | 36   | 0.41  | 0.83                  | 1.24                               | 1.98                        | 3.23          | *                             | *                     | *                             |
| Cardiff            | 65   | 0.08 | 1.39  | 2.08                  | 3.55                               | 3.16                        | 6.71          | 0.68                          | 0.53                  | 0.01                          |
| ondon :            |  |      |   |                       |                                    |                             |               |                               |                       |                               |
| Archbishop's Park  | 39   | 0.13 | 1.81  | 2.80                  | 4.74                               | 4.02                        | 8.76          | 1.27                          | 0.34                  | 0.11                          |
| Finsbury Park      | 40   | 0.13 | 1.22  | 2.97                  | 4.32                               | 3.52                        | 7.84          | 0.86                          | 0.38                  | 0.06                          |
| Golden Lane        | 40   | 0.08 | 2.48  | 4.10                  | 6.66                               | 6.25                        | 12.90         | 1.27                          | 0.88                  | 0.19                          |
| Kew Observat'y A   | 48   | 0.09 | 0.82  | 1.33                  | 2.24                               | 2.96                        | 5.20          | 0.84                          | 0.33                  | 0.07                          |
| Kew Observat'y B   | 53   | 0.08 | 0.96  | 1.51                  | 2.55                               | 3.13                        | 5.69          | 0.90                          | 0.36                  | 0.11                          |
| Ravenscourt Park   | 42   | 0.12 | 1.10  | 2.99                  | 4.21                               | 2.36                        | 6.56          | 0.77                          | 0.27                  | 0.09                          |
| South Kensington   | 37   | 0.15 | 1.56  | 3.33                  | 5.04                               | 3.46                        | 8.50          | 0.93                          | 0.44                  | 0.05                          |
| Southwark Park     | 42   | 0.21 | 2.29  | 3.84                  | 6.34                               | 3.61                        | 9.95          | 1.06                          | 0.41                  | 0.10                          |
| Victoria Park      | 40   | 0.08 | 1.26  | 2.34                  | 3.68                               | 2.33                        | 6.01          | 0.77                          | 0.28                  | 0.08                          |
| Wandsw'th Common   | 38   | 0.07 | 1.26  | 2.07                  | 3.40                               | 2.44                        | 5.85          | 0.72                          | 0:36                  | 0.07                          |
| Westminster        | 42   | 0.15 | 1.92  | 2.26                  | 4.33                               | 3.87                        | 8.20          | 0.88                          | 0.50                  | 0.03                          |
| Kingston-on-Thames | 57   | 0.15 | 1.33  | 2.22                  | 3.70                               | 3.65                        | 7:35          | 1.05                          | 0.29                  | 0.02                          |

<sup>\*</sup> NOT DETERMINED.

J. S. OWENS, D.Sc., M.D., A.M.I.C.E.,
Superintendent of Atmospheric Pollution Observations.
Department of Scientific and Industrial Research.



# TABLE I. VITAL STATISTICS OF WHOLE DISTRICT DURING 1929 AND PREVIOUS YEARS.

COUNTY BOROUGH OF SOUTHPORT.

|  |                      | (4)   |      |        |        |        |        |        |        |        |        |        |        | 000    |
|--|----------------------|---|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| THE                                    | Ages.                | Rate  | 13   | 15-40  | 13-50  | 12.80  | 13.54  | 13-49  | 13.66  | 12.62  | 11-93  | 13.56  | 13-17  | 14.32  |
| LONGING TO<br>RICT.                    | At all Ages.         | Number<br>*                                   | 12   | 1078   | 945    | 920    | 975    | 977    | 1006   | 937    | 930    | 1067   | 1044   | 1146   |
| NETT DEATHS BELONGING TO THE DISTRICT. | ar of Age.           | Rate per<br>1,000<br>Nett<br>Births           | 11   | 06     | 54     | 70     | 26     | 92     | 63     | 19     | 62     | 84     | 75     | 73     |
| NETE                                   | Under 1 Year of Age. | Number<br>*                                   | - 10 | 08     | 88     | 11     | 28     | 99     | 29     | 69     | 28     | 46     | 69     | 65     |
| ERABLE<br>HS a                         | . 44                 | dents not<br>registered<br>in the<br>District | 9    | 132    | 121    | 26     | 114    | 106    | 109    | 118    | 124    | 130    | 132    | 179    |
| Transferable<br>Deaths a               | **                   | residents<br>registered<br>in the<br>District | œ    | 86     | 81     | 11     | 79     | 69     | 78     | 26     | 12     | 49     | -13    | 98     |
| DEATHS<br>ID IN THE                    | nor.                 | Rate  | 7    | 14-83  | 13-07  | 12-43  | 13-05  | 12.98  | 13-24  | 11-85  | 11.26  | 12.64  | 12.64  | 13-41  |
| TOTAL DEATHS REGISTERED IN THE         | DISTRICT.            | Number *                                      | 9    | 1038   | 915    | 894    | 940    | 940    | 776    | 880    | 878    | 1002   | 1002   | 1073   |
|  | it.                  | Rate  | 0    | 12-14  | 17-26  | 15-38  | 14-27  | 13-76  | 12-90  | 13.10  | 11-90  | 12.18  | 11.54  | 11-07  |
| Виктия.                                | Nett.                | Number  | +    | 887    | 1261   | 1106   | 1028   | 966    | 934    | 973    | 928    | 958    | 957    | 968    |
|  |                      | Un.<br>corrected<br>Number                    | 60   | 877    | 1259   | 1120   | 1023   | 1012   | 952    | 886    | 942    | 973    | 959    | 929    |
|  | Population           | to Middle<br>of each<br>year                  | 57   | 70,000 | 70,000 | 71,900 | 72,020 | 72,410 | 73,650 | 74,260 | 076,77 | 78,670 | 79,290 | 80,040 |
|  |                      | YEAR.   | 1    | 1919   | 1920   | 1921   | 1922   | 1923   | 1924   | 1925   | 1926   | 1927   | 1928   | 1929   |

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.

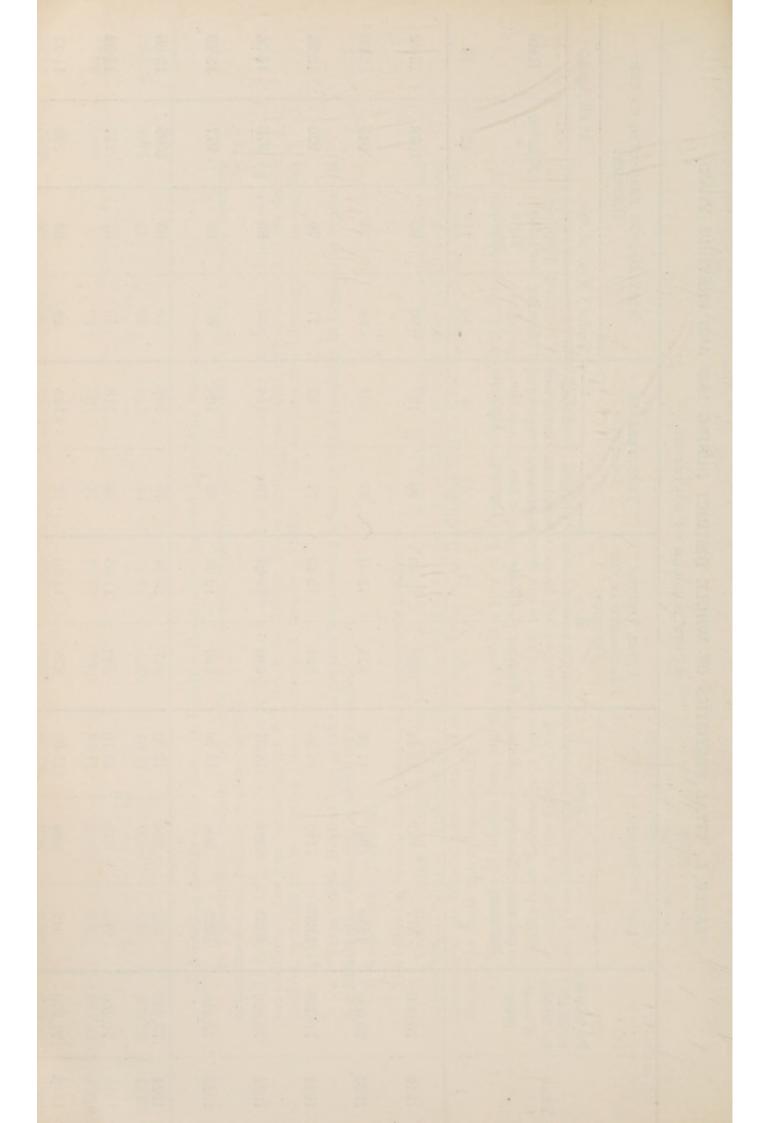
The following Special Cases arise as to Transferable Deaths:—

(1) Persons dying in Institutions for the sick or infirm, such as hospitals, lunatic 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 | -                            | 1                          | *****                               | 3 9,426   |
|------|------------------------------|----------------------------|-------------------------------------|---|
| 1911 | 69,643                       | 15,676                     | 4-44                                | 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 1929.

COUNTY BOROUGH OF SOUTHPORT.

|   |        |         | Nume    | ER OF CA | ses Nor  | IFIED.   |          |                   |  | TOTAL CAS                               | LOCALITY.  | D IN EACH             |  |                                 |
|---|--------|---------|---------|----------|----------|----------|----------|-------------------|--|---|--|-----------------------|--|---------------------------------|
| Notifiable Disease.   | At all |         |         | At       | Ages—Y   | ears.    |          |                   | 1<br>Six                                 | 2<br>Scaris-                            | 3<br>Park and                                    | 4<br>Hesketh          | 5<br>Birkdale<br>N'rth, East   | TOTAL<br>CASES<br>REMOVED<br>TO |
|   | Ages.  | Under 1 | 1 to 5. | 5 to 15. | 15 to 25 | 25 to 45 | 45 to 65 | 65 and<br>upwards | Central<br>Wards<br>Est. pop.,<br>32,018 | Sussex<br>Wards<br>Est. pop.,<br>15,445 | Birkdale<br>West<br>Wards<br>Est. pop.,<br>9,968 | Ward Est. pop., 5,655 | South and<br>Ainsdale<br>Wards<br>Est. pop.,<br>16,954   | Hospital.                       |
| Small-pox Cholera (C) Plague (P) Diphtheria (including Membranous Croup) Erysipelas Scarlet Fever Typhus Fever Enteric Fever Para-Typhoid Fever Relapsing Fever (R) Continued Fever (C) Puerperal Fever Puerperal Fever Puerperal Fever Pulmonary Tuberculosis Tuberculous Meningitis Poliomyelitis Pulmonary Tuberculosis Other forms of Tuberculosis Chicken Pox Measles German Measles Whooping Cough Ophthalmia Neonatorum Pneumonia Influenzal Pneumonia Dysentery Amoebie Malaria Encephalitis Lethargica Cerebro Spinal Meningitis Septic Meningitis |        |         |         |          |          |          |          | 12                |  |   | 10 7 23  |                       | 200 155 722 — 1 1 1 1 1 1 — 200 213 134 244 441 22 225 144 — — — — — — — — — — — — — — — — — — |                                 |
| Totals  | 1970   | 50      | 411     | 1111     | 122      | 140      | 93       | 43                | 492                                      | 561                                     | 171  | 154                   | 592  | 483                             |

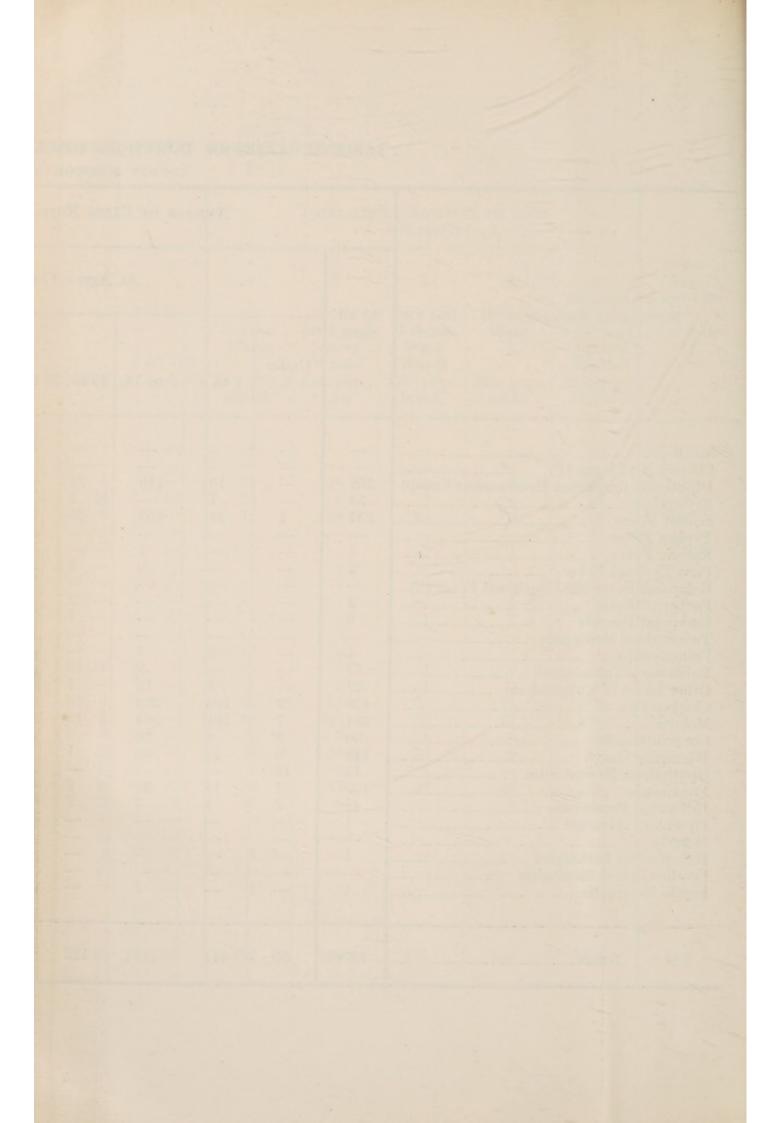


TABLE III. CAUSES OF, AND AGES AT, DEATH DURING THE YEAR 1929, COUNTY BOROUGH OF SOUTHFORF.

DEATHS OF RESIDENTS "OF "NON- RESIDENTS "IN INSTRUCTIONS IN THE DISTRICT (b) 115 12 638 10 624 32 32 10 32 32 120 1 1 28 -Nett Deaths at the subjoined ages of "Residents" whether occurring within or without the District (a). 5 and 15 and 25 and 45 and under under under 15 years 25 years 45 years 65 years 6 281 275 39 86 00 97 1 30 1 9 17 18 1 and 2 and under under 2 years 5 years 1-20 6 Under 1 year 65 00 61 1118 All 10 10 356 01 19-Diarrhoea & Enteritis (See Note (c) ) 18-Other diseases of respiratory organs. 25—Congenital Debility and Malforma-tion, including Premature Birth 9-Phthisis (Pulmonary Tuberculosis). 26-Violent Deaths, excluding Suicide 24—Other Accidents and Diseases of Pregnancy and Parturition 29-Diseases ill-defined or unknown 22-Nephritis and Bright's Disease 11-Other Tuberculous Diseases 20-Appendicitis and Typhlitis 14-Meningitis (See Note (d) ) 12-Cancer, malignant disease CAUSES OF DEATH. 17-Pneumonia (all Forms) 28-Other Defined Diseases (Certified (c) 10-Tuberculous Meningitis 15-Organic Heart Disease Uncertified 6-Diphtheria and Croup 21-Cirrhosis of Liver 23-Puerperal Fever 5-Whooping Cough 13-Rheumatic Fever 1-Enteric Fever 16-Bronchitis 4-Scarlet Fever 8-Erysipelas 2-Small-pox 7-Influenza 3-Measles All Causes

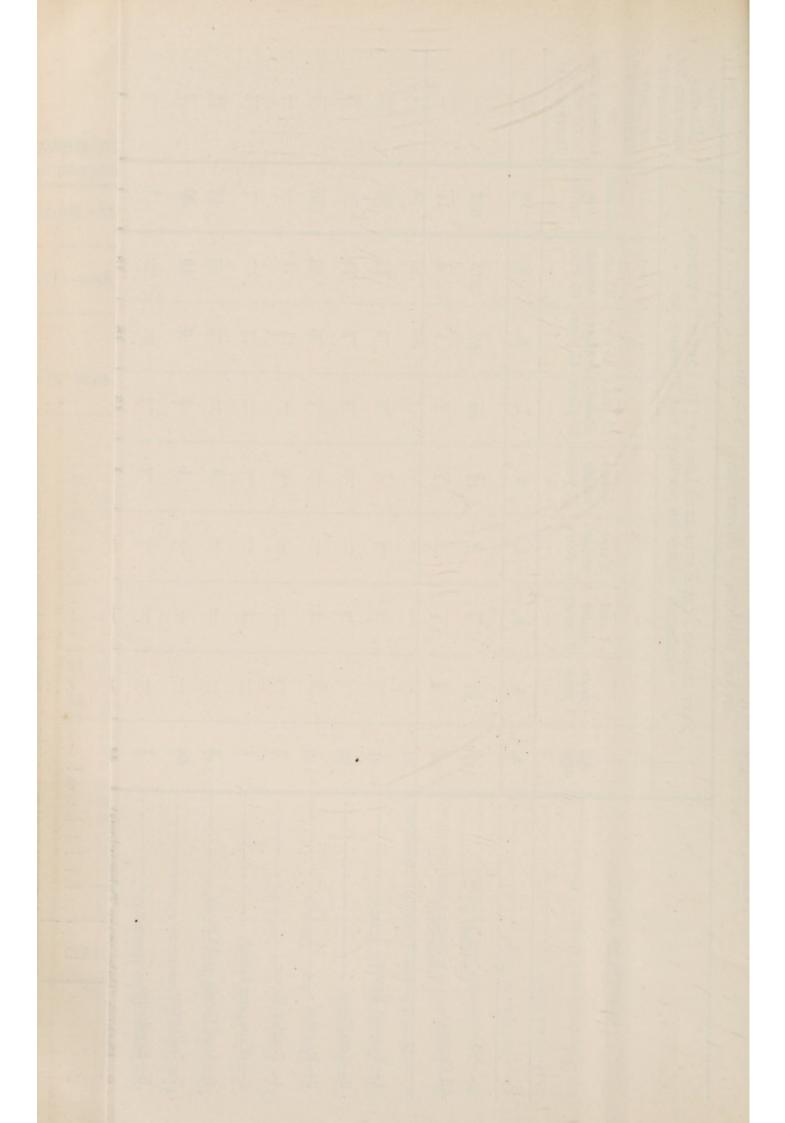


TABLE IV. INFANTILE MORTALITY DURING THE YEAR 1929. Nett Deaths from stated Causes at Various Ages under One Year of Age.

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| Small-pox   Coretified   19 3 3 6 31 16 5 4   | CAUSES OF DEATH.   | Under<br>1<br>week | 1—2<br>weeks | 2—3<br>weeks | 3-4<br>weeks | Total<br>under<br>4 weeks | 1-3<br>months | 3—6<br>months | 6—9<br>months | 9—12<br>months | Total<br>Deaths<br>under<br>1 year |
|---|--|--------------------|--------------|--------------|--------------|---------------------------|---------------|---------------|---------------|----------------|------------------------------------|
| Uncertified   |  | 19                 | 60           | 03           | 9            | 31                        | 16            | 5             | 4             | 10             | - 19                               |
| Very   Very |  | 1                  | 1            | 1            | 1            | 1                         | 01            | 1             | 01            | 1              | 4                                  |
| Cough   | (Small-pox   | 1                  | 1            | -            |              |                           |               |               |               |                |                                    |
| Cough   | Chicken-pox  |                    |              |              |              |                           |               |               |               |                |                                    |
| Cough   | 1  | 1                  | 1            | 1            | 1            | 1                         | 1             | 1             | 1             | 1              | 1                                  |
| Cough   | Meastes  | 1                  | 1            | 1            | 1            | 1                         | 1             | 1             | 1             | 03             | 63                                 |
| Cough   | Scarlet Fever  | 1                  | 1            | 1            | 1            | 1                         | 1             | 1             | 1             | 1              | 1                                  |
| a and Oroup  wa Meningttis  Tyberculous (b)  a (all forms)  a (all forms)  backlity and Marasmus  condity and Marasmus  Totals  Totals  was Meningttis  | Whooping Cough   | 1                  | 1            | 1            | 1            | 1                         | 1             | 1             | 1             | 1              | I                                  |
| Was Meringitis  | Diphtheria and Croup   | 1                  | 1            | 1            | 1            | 1                         | 1             | 1             | 1             | 1              | 1                                  |
| Tuberculous   Colored   Erysipelas   | 1                  | 1            | 1            | 1            | 1                         | 1             | 1             | 1             | -              | 1                                  |
| Tuberculosis (b)  | (Tuberculous Meningitis  | 1                  | 1            | 1            | -            | -                         | -             |               |               |                | 1                                  |
| a (all forms)   | Abdominal Tuberculosis (b)   | 1                  | -            | 1            |              |                           |               |               |               |                |                                    |
| (not Tubercalous)   | Other Tuberculous Discoses   |                    |              |              |              |                           |               | 1             | -             | 1              | 1                                  |
| (and Tubercations)  | Comer tracelemons Discusses  | 1                  | 1            | 1            | 1            | 1                         | 1             | 1             | 1             | 1              | 1                                  |
| a (all forms)   | Meningitis (not Tuberculous)   | 1                  | 1            | 1            | 1            | 1                         | 1             | 1             | 1             | 1              | 1                                  |
| a (all forms)   | Convulsions  | 1                  | 1            | 1            | 1            | 1                         | -             | ı             | 1             | 1              | 1                                  |
| a (all forms)   | Laryngitis   | 1                  | 1            | -            | 1            | 1                         | 1             | 1             | 1             | 1              | 1                                  |
| a (all forms)   | Bronchitis   | 1                  | 1            | 1            | 1            | 1                         | 65            | 1             | 1             | -              | 10                                 |
| Display and Marasmus  | Pneumonia (all forms)  | 1                  | 1            | ı            | 01           | 01                        | . 10          | 1             | 60            | CI             | 13                                 |
|   | Diarrhoea  | -                  | 1            | 1            | 1            | 1                         | -             | 1             | 1             | 1              | 03                                 |
|   | Enteritis  | 1                  | 1            | 1            | 1            | 1                         | 1             | 1             | 1             | 1              | 01                                 |
|   | Gastritis  | -                  | 1            | -            | 1            | 1                         | 1             | 1             | 1             | 1              | 1                                  |
|   | Syphilis   | 1                  | 1            | 1            | -            | 1                         | 1             | 1             | 1             | 1              | -                                  |
| 19   3   6   31   18   5   18   18   19   19   19   19   19   19  | Rickets  | 1                  | 1            | 1            | 1            | 1                         | 1             | 1             | ı             | 1              | 1                                  |
| 19   3   6   31   18   5   5   5   5   5   5   5   5   5  | Suffocation, overlying   | 1                  | 1            | 1            | 1            | 1                         | 1             | 1             | 1             | 1              | 1                                  |
| 19   3   6   31   18   5   18   18   18   18   18   18  | Injury at birth  | 1                  | 1            | 1            | 1            | 1                         | 1             | 1             | 1             | 1              | 1                                  |
| 19   3   6   31   18   5   5   5   5   5   5   5   5   5  | Atelectasis  | 1                  | 1            | 1            | 1            | 1                         | 1             | 1             | 1             | 1              | 1                                  |
| 8   | Congenital Malformations (c)   | *                  | 1            | 63           | -1           | 1-                        | 1             | 61            | 1             | 1              | 10                                 |
| 3 2   | Premature birth  | 90                 | 1            | 1            | 1            | 00                        | 67            | 1             | 1             | 1              | 10                                 |
| Totals   3   2   -   5   -  | Atrophy, Debility and Marasmus -   | *                  | 1            | 1            | 65           | 7                         | 5             | 01            | 1             | 1              | 14                                 |
| 19 3 6 31 18 5  | Other Causes   | 00                 | 01           | 1            | 1            | 10                        | 1             | T.            | 1             | 1              | 10                                 |
| legitimate 842   Nett Deaths registered during the calendar   | Totals   | 61                 | 60           | 60           | 9            | 31                        | 18            | 10            | 9             | 10             | 9                                  |
| (megramate ot year,   |  | imate              | 842          |              | Nett         | Deaths r                  | gistered      |               | timate        | 57             | 1.                                 |
|   | - tota   | enmanc             | 800          |              |              | year.                     |               |               | gitimate      | 00             | · 1                                |
|   | TOTAL STATE OF THE |                    | 000          |              |              |                           |               | [otal         | -             | 99             | 10                                 |

Illegitimate Death Rate 148.

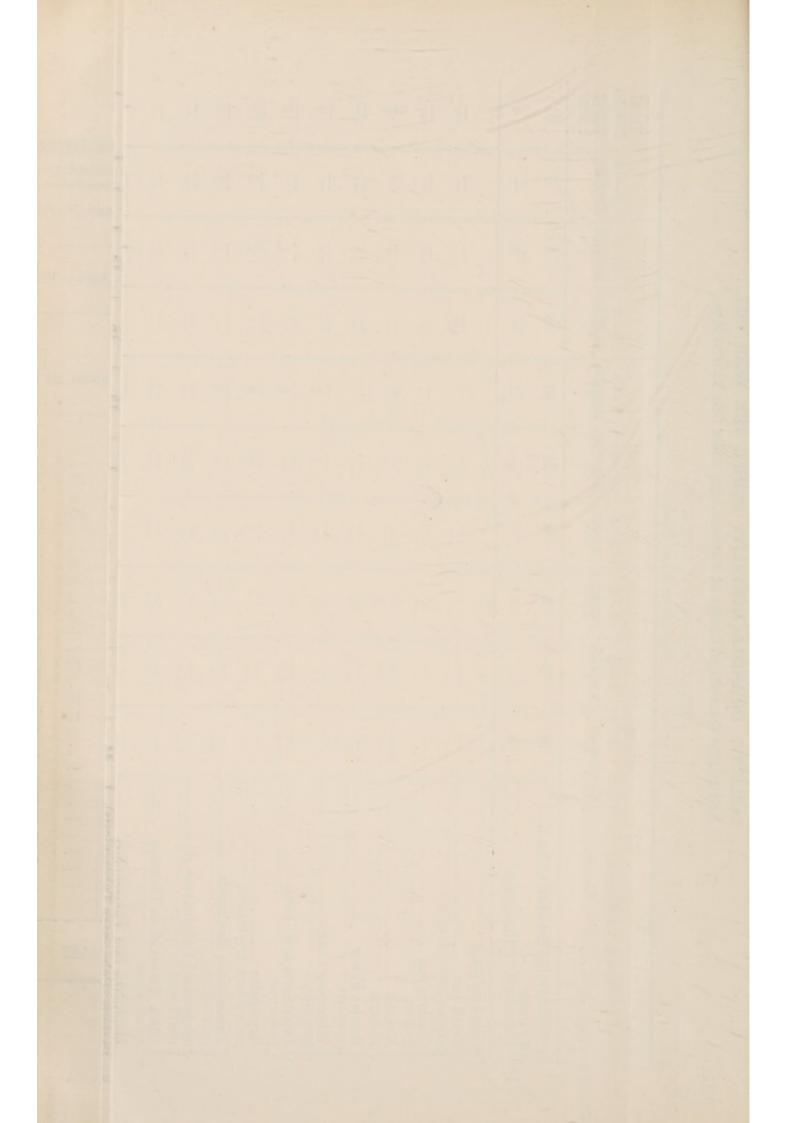


TABLE V.

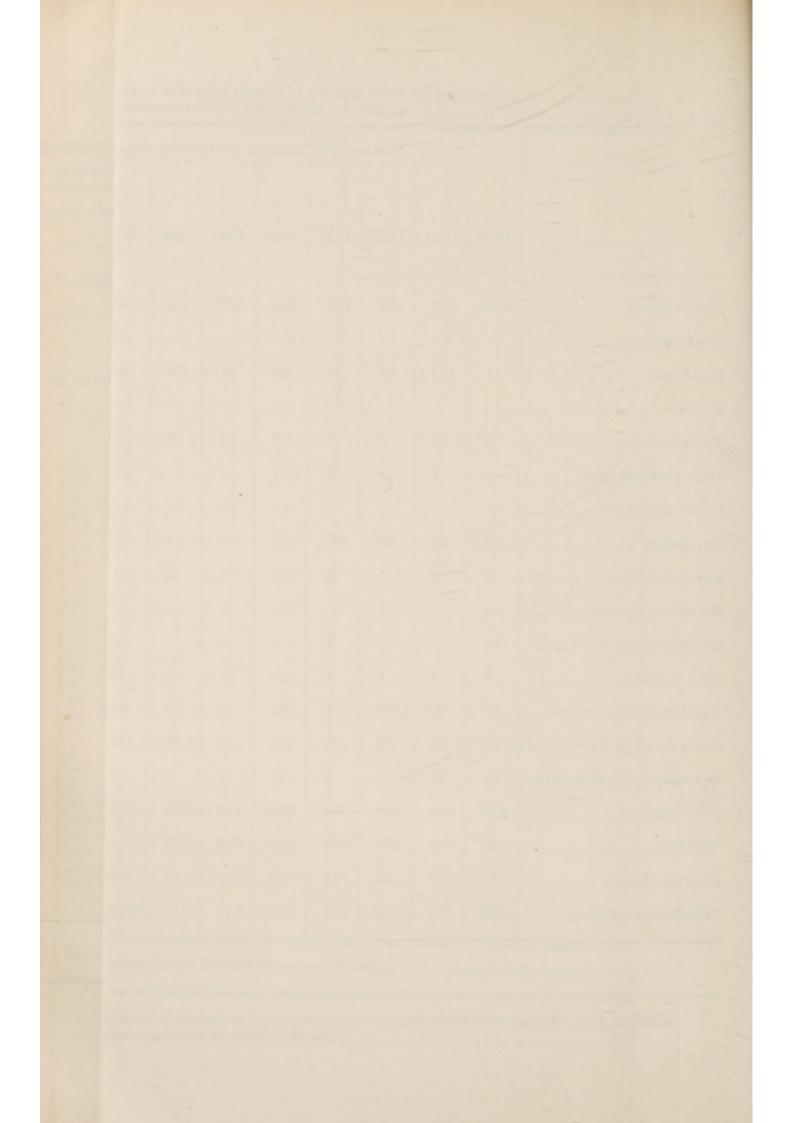
Showing the total number of Cases of Infectious Disease notified in the Borough, and the Deaths resulting therefrom, during the last 10 years (1920—1929). It includes the Deaths which occurred both in the Borough, and in the Borough Infectious Diseases Hospital (outside the Borough).

|                             |      |      |      | alle and | anne e  |        |        | Mary 10 |         |      |   |      |      |      |      |      |        | -    |        |         | Commence of |  |                |
|-----------------------------|------|------|------|----------|---------|--------|--------|---------|---------|------|---|------|------|------|------|------|--------|------|--------|---------|-------------|--|----------------|
|                             |      |      | NUME | ER OF    | CASES O | F INFE | CTIOUS | DISEAS  | E NOTIF | TED  |   |      |      | -    |      | J    | DEATHS | FROM | INFECT | rious I | DISEASE     |  | Case Mortality |
|                             | 1920 | 1921 | 1922 | 1923     | 1924    | 1925   | 1926   | 1927    | 1928    | 1929 | Total Cases<br>for 10 years<br>1920 to 1929 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925   | 1926 | 1927   | 1928    | 1929        | Total Deaths<br>during<br>10 years<br>1920 to 1929 |                |
| Scarlet Fever               | 199  | 129  | 168  | 101      | 107     | 132    | 122    | 144     | 123     | 234  | 1459  | _    | -    | 2    | -    |      | -      | 1    | -      | -       | 2           | 5  | 0.31%          |
| Small-pox                   | -    | -    | -    | -        | -       | -      | -      | 65      | -       | -    | 65  | -    | -    | -    | -    | -    |        | -    | -      | -       | -           |  | _              |
| Diphtheria                  | 41   | 109  | 42   | 37       | 35      | 44     | 35     | 49      | 71      | 168  | 631   | 2    | 5    | 1    | 1    | -    | 2      | 1    |        | - 1     | 3           | 16   | 2.53%          |
| Typhus                      | -    | -    | -    | -        | -       | -      | -      | -       | -       | -    | -   | -    | -    | -    | -    | -    | -      | -    | -      |         | -           | -  | -              |
| Typhoid Fever               | 8    | 13   | 2    | 7        | 16      | 4      | 5      | 7       | 1       | 1    | 64  | 1    | 3    | -    | -    | 1    |        | 1    | 1      | -       | 1           | 8  | 12.5 %         |
| Para-Typhoid Fever          | -    | 1    | -    | 2        | 1       | -      | -      | 1       | 5       | 2    | 12  | -    | -    | -    | 1    | -    | -      | -    | -      |         | -           | 1  | 8-33%          |
| Continued Fever             | -    | -    | -    | -        | -       | -      | -      | 11-     | -       |      | 72  | -    | -    |      | -    |      | -      | -    | -      | -       | _           | -  | -              |
| Erysipelas                  | 52   | 23   | 30   | 22       | 36      | 36     | 34     | 21      | 29      | 54   | 337   | 1    | 1    |      | 3    | -    | 1      | 1    | -      | 1       | 1           | 9  | 2.67%          |
| Puerperal Fever             | 6    | 5    | 1    | 1        | 3       | 1      | 2      | 1       | -       | 3    | 23  | 2    | 1    | -    | -    | 1    | 1      | 4    | -      | -       | -           | 5  | 21-74%         |
| Puerperal Pyrexia           | -    | -    | -    | -        | -       | -      | -      | 1       | 6       | 6    | 13  | -    | -    | -    | -    | -    | -      | -    | -      |         | -           | 1000   | _              |
| Cerebro-Spinal Meningitis   | 100  | -    | 2    | 1        | -       | 10-0   | -      | -       | 1       | -    | 4   | _    | 24   | -    | -    | -    |        |      |        | -       | -           | -  | _              |
| Poliomyelitis               | 3    | 1    | 1    | 1        | -       | -      | 2      | 1       | 1       | 4    | 14  | -    |      | -    | -    | -    | -      | -    |        | -       | -           | -  | -              |
| Pulmonary Tuberculosis      | 91   | 80   | 104  | 87       | 101     | 74     | 83     | 73      | 82      | 59   | 834   | 44   | 42   | 43   | 52   | 65   | 44     | 36   | 41     | 39      | 44          | 450  | 53.96%         |
| Other forms of Tuberculosis | 29   | 34   | 23   | 32       | 34      | 36     | 28     | 24      | 33      | 27   | 300   | 8    | 10   | 8    | 16   | 13   | 10     | 8    | 7      | 10      | 7           | 97   | 32-33%         |
| Ophthalmia Neonatorum       | 20   | 12   | 7    | 6        | 11      | 2      | 3      | 5       | 3       | 12   | 81  | -    | -    |      | -    | -    | -77    | -    | -      | -       | -           | -  | -              |
| *Chicken Pox                | 426  | 412  | 119  | 307      | 249     | 372    | 391    | 348     | 434     | 430  | 3488  | -    | -    |      |      |      | -      | -    | -      |         | -           | -  | _              |
| *Measles                    | 499  | 890  | 170  | 1064     | 288     | 672    | 887    | 401     | 674     | 581  | 6126  | 2    | 2    | 1    | 9    | 2    | 3      | 5    | 2      | 2       | 3           | 31   | 0-50%          |
| German Measles              | 44   | 53   | 26   | 16       | 23      | 187    | 45     | 26      | 27      | 50   | 497   | -    | -    | -    | -    | -    | -      | -    | -      | -       | -           | -  | -              |
| *Whooping Cough             | 262  | 293  | 208  | 121      | 292     | 240    | 418    | 118     | 310     | 149  | 2411  | 3    | 5    | 9    | -    | 4    | 2      | 5    | 3      | 9       | 1           | 41   | 1.70%          |

 $The following additional notifications were received: --Pneumonia (all forms) 187\ ; \ Encephalitis Lethargica, 1\ ; \ Dysentery, 1.$ 

<sup>\*</sup>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 :—Ouly the first case in a house in two months is notifiable.



| Small-pox         140         94         125         84         87         102         91         114         111         205         1151           Diphtheria         31         84a         34         29         29         31         46         68         168a         550           Typhold Fever         4         8         1         12         3         5         1         1         35         1         46         68         168a         550         60         141         1         35         6         14         3         6         1         1         1         35         8         1         4         6         68         168a         168         550         6         44         4         6         44         3         6         4         3         6         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         3         6         4         3         6         4         3         6         4         4         4         4         4         4         4         4 <t< th=""><th></th><th>1920<br/>A</th><th>1921</th><th>198</th><th>1923</th><th>1924</th><th>1920</th><th>1926</th><th>1921</th><th>1928</th><th>1959</th><th>1920 to 1929.</th></t<>  |                          | 1920<br>A | 1921 | 198 | 1923 | 1924 | 1920 | 1926 | 1921 | 1928     | 1959 | 1920 to 1929. |
|---|--------------------------|-----------|------|-----|------|------|------|------|------|----------|------|---------------|
| Fever 31 848 34 29 29 39 31 46 68 168r    Indid Pover 4 8 - 1 12 - 3 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  | earlet Fever             | 140       | 16   | 125 | 84   | 87   | 102  | 16   | 1114 | 1111     | 4805 | 1151          |
| ver         4         8         1         12         29         39         31         46         68         168r           ver         4         8         1         12         3         5         1         1           3         4         6         4         3         5         4         3         5         6         6           1         2         17         2         5         3         30         6         16         14         11           1         1         1         1         1         1         1         1         1         2         1         1         2         1           1  | Small-pox                | 1         | 1    | 1   | ı    | t    | I    | 1.   | 458  | 1        | 1    | 45            |
|   | iphtheria                | 31        | 848  | 34  | 50   | 530  | 339  | 31   | 46   | 88       | 168F | 629           |
|   | yphoid Fever             | 7         | 00   | 1   | -    | 12   | 1    | 69   | 10   | 1        | -    | 128           |
| 1   | ara Typhoid Fever        |           | 1    | 1   | 1,   | 1    | ľ    | 1    | 1    | 60       | -    | 10            |
| No.   No. | rysipelas                | 4         | 10   | +   | 00   | 10   | 7    | 00   | 10   | 10       | 9    | 44            |
| 1   | uerperal Fever           | 00        | 7    | 1   | 1    | 1    | 1    | -    | 1    | Ic       | 5.8  | 14            |
| No.   | ieasles                  | 01        | 11   | 91  | 10   | 65   | 05   | 9    | 16   | 14       | 11   | 96            |
| 1   1   9   5   1   8   5   1   8   5   1   8   5   1   8   5   1   8   5   1   8   5   1   8   5   1   8   5   1   8   1   1   1   1   1   1   1   1   | erman Measles            | 1         | -    | 1   | 1    | 1    | 1-   | 1    | 1    | 01       | 1    | 10            |
| Name  | hicken Pox               | 1 1       | 1    | 1   | 1    | -    | 6    | 10   | -    | 00       | 10   | 30            |
| otals   | erebro-Spinal Meningitis | -         | 1    | 1   | 1    | 1    | - 1  | -    | 1    | -        | -1   | eq.           |
| 191 213 168 122 137 181 140 233 214 400   | phthalmia<br>Neonatorum  | 10        |      | 02  | -    |      | 1    | - 1  | 1    | 1        |      | 00            |
| 12 20 10 9 22 14 7 8 29 417   | Totals                   | 161       | 213  | 891 | 122  | 137  | 181  | 140  | 233  | 214      | 400  | 1999          |
| rexis — 1 — 1 1 1 — 2 3 — 7 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   | liscellancous Cases      | 81        | 20   | 10  | 0    | 000  | 14   | 1-   | 00   | 530      | 4112 | 182           |
| tis   | neumonia                 | -         | 1    | -   | -    | 1    | 21   | 65   | 1    | 1-       | 6    | 24            |
| tis 45 500 480 520 500 610 460 560 960 960  | oliomyelitis             | 1         | 1    | 1   | 1    | ľ    | 1    | -    | 1    | 1        |      | 1             |
| tis 45 500 480 520 500 610 460 540 960 960  | uerperal Pyrexia         | 1         | 1    | ľ   | 1    |      | 1    | 1    | E    | 65       | -    | 7             |
| 45 50p 48p 52p 50p 61p 46p 54p 96p 66p  | .B. Meningitis           | 1         | 1    | 1   | 1    | 1    | Ĭ.   | -    | 1    | -        | -    | 63            |
|   | uberculosis              | 45        | 200  | 480 | 52p  | 20p  | 610  | 460  | 24D  | 096<br>0 | 099  | 268           |

Totals for the 1929 Ten years, 1920 to 1929. DEATHS AMONG THE ABOVE. Encephalitis Lethargica — Totals — 17 Infantile Diarrhoea 1 Capillary Bronchitis ----Septic Meningitis ---Tuberculous Meningitis - -Cerebral Haemorrhage -Cardiac Failure Mal Assimilation Puerperal Fever Whooping Cough -Typhoid Fever -Tuberculosis Scarlet Fever Small-pox Erysipelas -Measles

A Including one non-resident of Southport, n 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).

NOTE—The figures given in this Table, except in columns distinguished as "native" or "local," are gross figures, without correction, and on that account may in come cases be found to differ from the figures given in Tables I to IV., which are corrected in accordance with the requirements of the Ministry of Health, as stated in the notes appended to them.

|       | DIR   | THS.    |       | D       | EATHS     |                                      | -     |                             |                |         |                   |    | DEA                       | THS I | FROM       |  |          |          |          |                      |  | I                  | 1    | D   | EATHS | OF P | ERSO  | NS AG | ED.     | AN     | NUAL R          | ATES            | PER TE            | IOUSA!                       | ND LIV  | ING.  |  |
|-------|-------|---------|-------|---------|-----------|--------------------------------------|-------|-----------------------------|----------------|---------|-------------------|----|---------------------------|-------|------------|--|----------|----------|----------|----------------------|--|--------------------|------|-----|-------|------|-------|-------|---------|--------|-----------------|-----------------|-------------------|------------------------------|---------|---|--|
| TRAB. | Male. | Female, | Male. | Female. | more than | Resident<br>n less than<br>r One Yea | Lives | Seven<br>Zymotic<br>Discuss | Small-<br>pox. | Measles | Searlet<br>Freez. |    | Whooping<br>log<br>Cough. | Fever | Distribota | Cholera<br>and<br>Cholerale<br>Discribes | Respira- | Phthiele | Violence | Imported<br>Phthiele | Importe<br>Diseases<br>of<br>Respira-<br>tory<br>Organs. | Public<br>Institu- |      | 0-1 | 1-5   | 5-25 | 11-01 | 25-00 | 00 and  | Births | Deaths<br>Gross | Deaths<br>Local | Deaths<br>Zymotic | Deaths<br>Native<br>Phthisis | of Boo- | Deaths,<br>Discusses<br>of Res-<br>piratory<br>Organs,<br>Local | Population (Estimated, to Middle of Year). |
| 1912  | 526   | 502     | 430   | 459     | 787       | 102                                  | 88    | 22                          | -              | 6       | 1                 | 10 | 3                         | 2     | -          | -  | 129      | 55       | 25       | 12                   | 11   | 87                 | 77   | 79  | 38    | 33   | 23    | 259   | 457     | 14-55  | 12-58           | 11:34           | -31               | -61                          | 1-83    | 1-67  | 70,640                                     |
| 1913  | 524   | 539     | 406   | 480     | 791       | 95                                   | 87    | 38                          | -              | 3       | 1                 | 2  | 5                         | 1     | 26         | -  | 137      | 52       | 26       | 9                    | 14   | 73                 | 92   | 98  | 30    | 14   | 31    | 249   | 464     | 14-95  | 12-46           | 11-24           | -53               | -60                          | 1-93    | 1.73  | 71,092                                     |
| 1914  | 505   | 511     | 449   | 525     | 886       | 88                                   | 64    | 33                          | -              | 10      | 1                 | 5  | 8                         | 1     | 8          | -  | 178      | 50       | 23       | 7                    | 9  | 100                | 104  | 106 | 49    | 23   | 23    | 264   | 509     | 14-15  | 13-58           | 12 68           | -46               | -60                          | 2-48    | 2-36  | 71,747                                     |
| 1915  | 486   | 491     | 456   | 574     | 932       | 98                                   | 77    | 26                          | -              | 5       | 6                 | 8  | 5                         | -     | 2          | -  | 164      | 49       | 31       | 7                    | 5  | 85                 | 90   | 88  | 46    | 35   | 35    | 293   | 533     | 13-63  | 15-20           | 14-06           | -38               | -62                          | 2-42    | 2:35  | 67,700                                     |
| 1916  | 513   | 495     | 441   | 505     | 851       | 95                                   | 72    | 41                          | -              | 21      | 1                 | 15 | -                         | -     | 4          | -  | 142      | 47       | 24       | 8                    | 11   | 79                 | 83   | 84  | 52    | 32   | 25    | 245   | 3550    |        | 14-12           |                 | -61               | -58                          | 2-19    | 1-96  | 67.000                                     |
| 1917  | 390   | 395     | 378   | 517     | 806       | 89                                   | 72    | 13                          | -              | -       | 3                 | 3  | 4                         | 1     | 2          | -  | 130      | 51       | 25       | 6                    | 13   | 83                 | 80   | 63  | 44    | 28   | 30    | 234   |         |        | 13-56           |                 | -20               | -68                          | 2-00    | 1.77  | 66.000                                     |
| 1918  | 404   | 372     | 465   | 579     | 927       | 117                                  | 83    | 22                          | -              | 4       | 2                 | 3  | 3                         | 2     | 8          | -  | 148      | 51       | 16       | 13                   | 14   | 88                 | 61   | 47  | 55    | 45   | 64    | 335   | 3330    |        | 15-79           |                 | -33               | -58                          |         | 2-03  | 66,000                                     |
| 1919  | 446   | 431     | 476   | 562     | 961       | 77                                   | 60    | 24                          | -              | 2       | 1                 | 6  | 2                         | 1     | 12         | -  | 160      | 51       | 30       | 1                    | 10   | 103                | 93   | 82  | 36    | 26   | 53    | 332   | 10000   |        | 14-83           |                 | -33               |                              |         | 2-14  | 70,000                                     |
| 1920  | 662   | 597     | 438   | 477     | 889       | 26                                   | 17    | 14                          | -              | 2       | -                 | 1  | 3                         | 1     | 7          | -  | 125      | 46       | 28       | 7                    | 15   | 87                 | 54   | 68  | 22    | 24   | 33    | 282   | 2000    |        | 13-07           |                 | -20               |                              |         | 1-57  | 70,000                                     |
| 1921  | 554   | 566     | 411   | 483     | 874       | 20                                   | 16    | 25                          | -              | 2       | -                 | 6  | 5                         | 2     | 10         | -  | 129      | 38       | 26       | 7                    | 2  | 96                 | 66   | 74  | 29    | 15   | 34    | 244   | 13333   |        | 12-43           |                 | -35               |                              | 1-79    | 2000  | 71,900                                     |
| 1922  | 538   | 468     | 441   | 501     | 927       | 15                                   | 15    | 18                          | -              | 1       | 2                 | 1  | 9                         | -     | 5          | -  | 163      | 42       | 32       | 3                    | 1  | 92                 | 59   | 59  | 32    | 19   | 43    | 243   | 200     |        | 13-78           |                 |                   |                              |         | 2-25  | 72,020                                     |
| 1923  | 514   | 498     | 438   | 502     | 929       | 11                                   | 10    | 20                          | -              | 9       | -                 | 2  | -                         | -     | 9          | -  | 159      | 55       | 26       | 7                    | 8  | 98                 | 63   | 64  | 40    | 14   | 26    | 250   |         |        | 12-98           |                 | -28               |                              |         | 2-09  | 72,410                                     |
| 1924  | 505   | 447     | 431   | 546     | 959       | 18                                   | 16    | 11                          | -              | 2       | -                 | -  | 5                         | 1     | 3          | -  | 155      | 65       | 32       | 9                    | 11   | 95                 | 63   | 56  | 35    | 12   | 31    | 253   | 100     |        | 13-26           |                 | -15               |                              |         | 1.95  | 73,650                                     |
| 1925  | 500   | 488     | 401   | 479     | 845       | 35                                   | 41    | 9                           | -              | 2       | 70                | 3  | 2                         | -     | 2          | -  | 146      | 37       | 26       | 2                    | 10   | 85                 | 58   | 58  | 26    | 12   | 25    | 221   |         |        | 11-85           |                 | -12               |                              |         | 1-83  | 74,260                                     |
| 1926  | 471   | 472     | 412   | 475     | 825       | 62                                   | 17    | 15                          | -              | 6       | 1                 | 2  | 5                         | 1     | -          | -  | 119      | 35       | 36       | 4                    | 12   | 93                 | 63   | 60  | 21    | 13   | 26    | 235   | 3300    |        | 11-37           |                 | -19               |                              |         | 1-37  | 77,970                                     |
| 1927  | 492   | 481     | 462   | 540     | 935       | 62                                   | 5     | 5                           | -              | 1       | -                 | -  | 3                         | 1     | 3          | -  | 170      | 38       | 38       | 4                    | 9  | 134                | 48   | 47  | 15    | 12   | 24    | 262   | 53333 B |        | 12-74           |                 | -06               |                              |         | 2-05  | 78,670                                     |
| 1928  | 475   | 482     | 429   | 573     | 931       | 71                                   | 4     | 13                          | -              | 2       | -                 | 1  | 9                         |       | 1          | -  | 154      | 35       | 32       | 1                    | 13   | 111                | 75   | 72  | 34    | 13   | 23    | 240   |         |        | 12-64           |                 | -16               |                              | 1.96    |   | 79,290                                     |
| 1929  | 492   | 437     | 500   | 573     | 987       | 86                                   | 4     | 6                           | -              | 1       | 75                | 2  | 1                         | 1     | 1          | -  | 181      | 39       | 35       | 1                    | 19   | 119                | 71   | 66  | 16    | 17   | 30    | 263   | 3333    |        | 13-41           |                 | -07               |                              |         |   |  |
|       |       |         |       |         |           |                                      |       |                             |                |         |                   |    |                           |       |            |  |          |          |          |                      |  |                    |      |     |       |      |       |       |         | 700    |                 | - 00            | -                 | 10000                        | 2.26    | 2-02  | 80,040                                     |
|       |       |         |       |         |           |                                      |       |                             |                |         |                   |    |                           |       |            |  |          |          |          |                      |  |                    |      |     |       |      |       |       |         |        |                 |                 |                   |                              |         |   |  |
|       |       |         | 10    |         |           | 19                                   |       |                             |                |         | -                 |    |                           |       |            | 100                                      |          |          |          | -                    |  |                    |      |     |       |      |       |       |         |        |                 |                 |                   |                              |         |   |  |
|       |       |         |       |         |           |                                      |       |                             |                |         |                   |    |                           |       | 100        | 146                                      | 200      |          |          |                      |  |                    | 1000 |     |       |      |       | _     | _       |        |                 |                 |                   |                              |         |   |  |

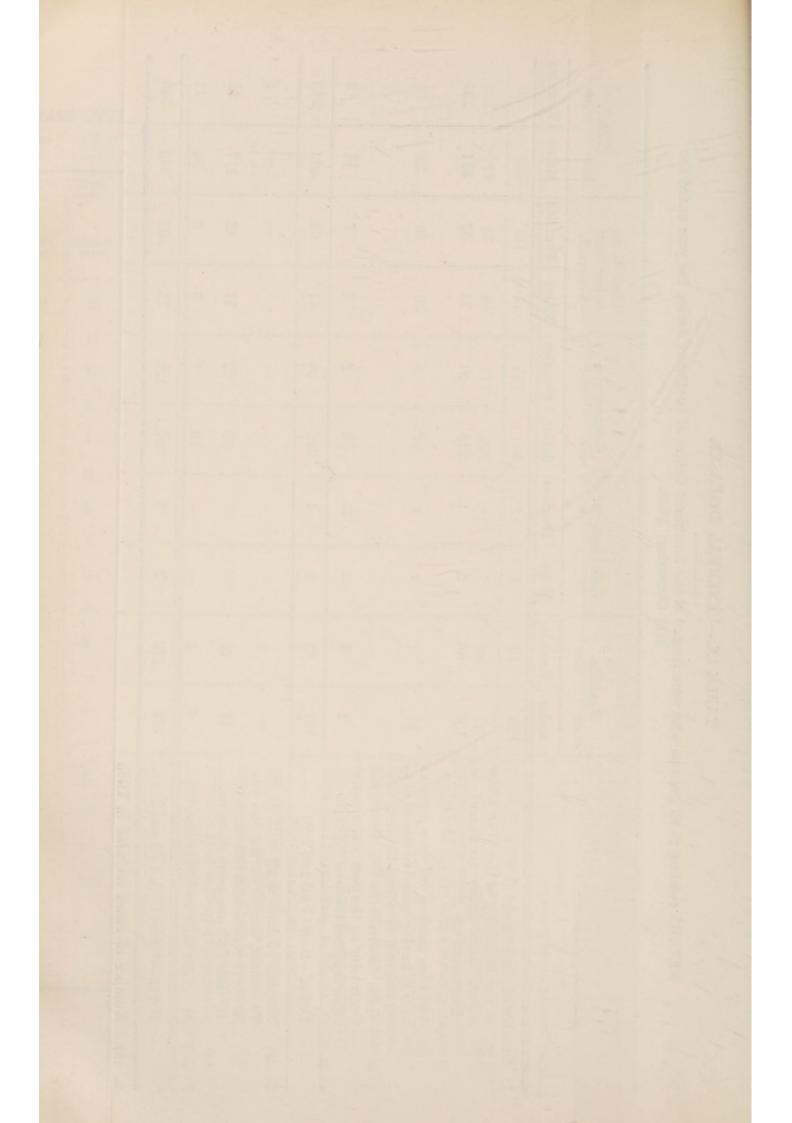
(For the years 1871—1911 see Report for year 1915).



TABLE IX.—VENEREAL DISEASES.

RETURN relating to all persons who were treated at the Treatment Centre at Southport during the year ended the 31st December, 1929.

|                     |  | Sypl      | Syphilis. | Soft Cl | Soft Chancre. | Gono  | Gonorrhoea.      | other           | other than<br>Venereal. | To         | Total.  |
|---------------------|--|-----------|-----------|---------|---------------|-------|------------------|-----------------|-------------------------|------------|---------|
|                     |  | Males     | Females   | Males   | Females       | Males | Females          | Males           | Females                 | Males      | Females |
| (a)                 | Number of cases which  (a) at the beginning of the year under report were under treatment or observation for   | 136       | 98        | 01      | -             | 218   | 16               | 35              | 57                      | 391        | 235     |
| (9)                 | had been marked off in a previous<br>year as having ceased to attend or as<br>transferred to other Centres, and<br>which returned to the Treatment<br>Centre during the year under report<br>suffering from the same infection | -         | -         | 1       | 1             | **    | 61               | 9               | 10                      | п          | ∞       |
|                     | Toral—Items 1 (a) and 1 (b)  | 137       | 87        | 61      | -             | 000   | 93               | 41              | 62                      | 402        | 243     |
| (a)                 | Number of cases dealt with at the Treatment Centre during the year for the first time with infections of—  (i) less than one years standing—   | 11        | 12        | 1       | 1             | 69    | 61               | 23              | 43                      | 117        | 98      |
|                     | (ii) more than one years standing  | 10        | 63        | 1       | 1             | 16    | 1                | 65              | 61                      | 24         | 11      |
|                     | TOTAL—Items 1 (a), 1 (b) and 2 (a)   | 159       | 110       | 01      | 1             | 307   | 122              | 75              | 101                     | 543        | 340     |
| (9)                 | Number of cases included in Item 2(a)known to have received previous treatment at other Centres for the same infection   | es        | 1         | 1       |               | 63    | -                |                 | 1                       | 9          | 1       |
| Num<br>(a)          | before completing the first course of<br>treatment for   | -         | -         | 1       | 1             | 01    | 1                | 1               | 1                       | 00         | 1       |
| (9)                 | after one or more courses but before   |           | -         | 1       | 1             | 1     | 1                | 1               | 1                       | 1          | 1       |
| (0)                 | after completion of treatment, but   | 01        | . +       | 1       | i             | 1-    | 67               | 1               | 1                       | 6          | 7       |
| Nun                 | Number of cases transferred to other<br>Treatment Centres after treatment for  | 10        | 60        | 1       | 1             | 14    | 60               | 1               | 1                       | 19         | 9       |
| Numb<br>plet<br>for | Number of cases discharged after completion of treatment and observations for  | 27        | 60        | 61      | -             | 53    | 10               | 56              | 9                       | 78         | 49      |
| N N                 | Number of cases which, at the end of the year under report, were under treatment or observation for  | 124       | 86        | 1       | 1             | 261   | H                | 49              | 19                      | 434        | 276     |
|                     | TOTAL-Items 3, 4, 5 and 6  | 159       | 110       | 03      | -             | 307   | 122              | 7.5             | 107                     | 543        | 340     |
| (a)                 | Out-patient attendances— (a) For individual attention by the Medical Officer   | 1579      | 779       | 10      | +             | 1865  | 290              | 134             | 187                     | 3588       | 1560    |
| (9)                 | For intermediate treatment, e.g., irrigation, dressings, etc.  | 314       | 630       | 1       | 1             | 2132  | 2117             | 74              | 156                     | 2520       | 2903    |
|                     | TOTAL ATTENDANCES  | 1893      | 1409      | 10      | 4             | 3997  | 2707             | 208             | 343                     | 8019       | 4463    |
| Agg                 | Aggregate number of "In-patient days" of treatment given to persons who were suffering from  | 121       | 426       | 1       | 1             | 340   | 412              | 142             | 116                     | 603        | 954     |
|                     |  |           |           |         |               | For   | For detection of |                 |                         | For        | F       |
|                     | . Company  |           |           |         | Spirochetes.  |       | Gonoeocci.       | Orga            | Other<br>Organisms.     | Reaction.  | ion.    |
| (a)                 | Examinations of Fathological material—  (a) Specimens which were examined at, and by the Medical Officer of, the Treatment Centre  | nd by the | Medical ( | Officer |               |       | No rece          | No record kept. |                         | 304        | 4       |
| (4)                 | Specimens from persons attending at the Treatment Centre   | t the Tre | atment C  | entre   |               |       | 636 Smears       | 1 Van           | den                     | 3 C.S.F.'s | E's     |



# 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.

| 8  | Name 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. | Preston  | Oldham.  | Manchester  | Liverpool.  | Lancashire.   | Southport.  | TOTAL  |
|----|---|--|--|---|---|---|---|--|
| Ą. | Number of cases from each area dealt with during the year for the first time and found to be suffering from :—                                      |  |  |   |   |   |   |  |
|    | Syphilis  | 1  | ı  | 63  | 1   | 00  | 40  | 45   |
|    | Soft Chancre  | 1  | I  | 1   | 1   | 1   | 1   | 1  |
|    | Gonorrhoea  | 61   | 1  | 61  | +   | 14  | 16  | 114  |
|    | Conditions other than venereal  | 61   | 1  | -   | +   | 67  | 70  | 79   |
|    | TOTAL   | +  | 1  | 5   | 8   | 61  | 201   | 238  |
| B. | Total number of attendances of all patients residing in each area   | 103  | 10   | 99  | 53  | 701   | 9643  | 10571  |
| o. | Aggregate number of "In-patient days" of all patients residing in each area   | п  | 1  | 148   | 132   | 155   | Ш   | 1557   |
| D. | Number of doses 1. Out-patient Clinic of arsenobenzene  | 1  | 1  | 10  | 1   | 116   | 400   | 835  |
|    | compounds given 2. In-patient Dept. to patients residing in each area.  |  | 1  | 6.  | -   | œ   | 98  | 103  |
| E. | Names of arsenobenzol compounds used in the treatment of syphilis and the usual initial doses.  | N.A.B. 45-<br>Stabilars  | -75; Sulfars   | B. 45-75; Sulfarsenol, Silber Salvarsan 1 gr.—3 grm. Neo Stabilarsan, Bismuth Salts, and Bismostol, Kar Suphan—Neo Khars.   | alvarsan 1 g  | gr.—3 grm. Johan—Neo Kh   | Trepol,   | Spirellen  |
| E  | Amount and kind of treatment usually administered to a case of syphilis of each of the types usually dealt with at the Treatment Centre.            | PRIMARY. One country on Hg or Bismost on Hg in the for grms. This is f mann tests, and PRIMARY. Sam independently of compounds. All kept under obser Patients are tree weekly injection. | he course of Bismostol (each of the form of This is followe sits, and contification of the form of the | ARY. One course of Arsenical Compounds to a total of 4 grams, nine injections of Hg or Bismostol (each injection=1 grm.). One month on Mist KI; two months on Hg in the form of pills. Then a second course of arsenical compounds total of 4 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 Layre Primark. Same 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. Territary and Park-Syphilitric. Patients are treated with Silber Salvarsan in small doses extending over a long period, weekly injections for 3 or 4 months then KI for some months, then the Silber Salvarsan course repeated. | pounds to a grm.). One second cours g for three mo extending overpt 3 courses eaction shows y the mouth, of for two years arean in small nen KI for son | month on Me of arsenical on this. Period rer 2 years. Series a total of 12 or by injection. TERITARY I doses extendine months, the months, the  | al of 4 grams, nine injections of touth on Mist KI; two months of arsenical compounds total of 4 hs. Periodic exams. and Wasser-2 years. SECOYDARY and LAYE grien over a period of 16 months a total of 12 grams. of arsenobenzole by injection. Patients are then TERITARY AND PARA-SYPHILITIO. oses extending over a long period, months, then the Silber Salvarsan | ctions of months or all of 4 Wasser- nd Late of months obbazol are then are then are then are then alvarsan alvarsan |
| 5  | Nature of tests applied in deciding as to discharge of patients referred to in Item 5 on previous page.   | SYPHILIS. After 3 years, absent after provor SOFT CHANCRE. tests to avo GONORRHOEA. tests given if possible. urine depos examination tion must so that are a tests given if possible.    | 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.  Soft Chancre. All sores healed. Under observation, examinations, and periodic 12 months tests to avoid possibility of Syphilis.  Gonormhora.—Females. Examinations, Cultures, and smears taken and provocative tests given every two months after completion of freatment for 12 months and longer if possible. Males. Discharges ceased, smears from follicles, prostate, vesicles, and urine deposits before and after provocative tests show absence of Gei. and pus, resexamination 2 months after completion of curative treatment. Urethroscope examination and the inness and provocative tests and pus, resexamination 2 months after completion of curative treatment. Urethroscope examination   |   | er observation stations, and 1 observation, e. Cultures, a ompletion of sed, smears frocative tests on of curative                                      | and being under observation for at least 2 years, more frequently linical manifestations, and negative tests for at least 12 months, ealed. Under observation, examinations, and periodic 12 months of Syphilis.  Examinations, Cultures, and smears taken and provocative nombs after completion of treatment for 12 months and longer Discharges ceased, smears from follicles, prostate, vesicles, and after provocative tests show absence of Gci. and pus, relative completion of curative treatment. Urethroscope examinative completion of curative treatment. | years, more frequently for at least 12 months, and periodic 12 months aken and provocative 12 months and longer prostate, vesicles, and e of G'ei. and pus, re-Urethroscope examina-  | quently months, months vocative d longer lies, and pus, re-  |

(Signed) HENRY BARDSLEY, M.R.C.S., L.R.C.P., Medical Officer of the Treatment Centre

