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COUNTY OF ARGYLL.

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TWENTY-NINTH  
ANNUAL REPORT

ON THE

Health and Sanitary Condition of  
the County and Districts

BY

ROGER M'NEILL, M.D., D.P.H., Camb.

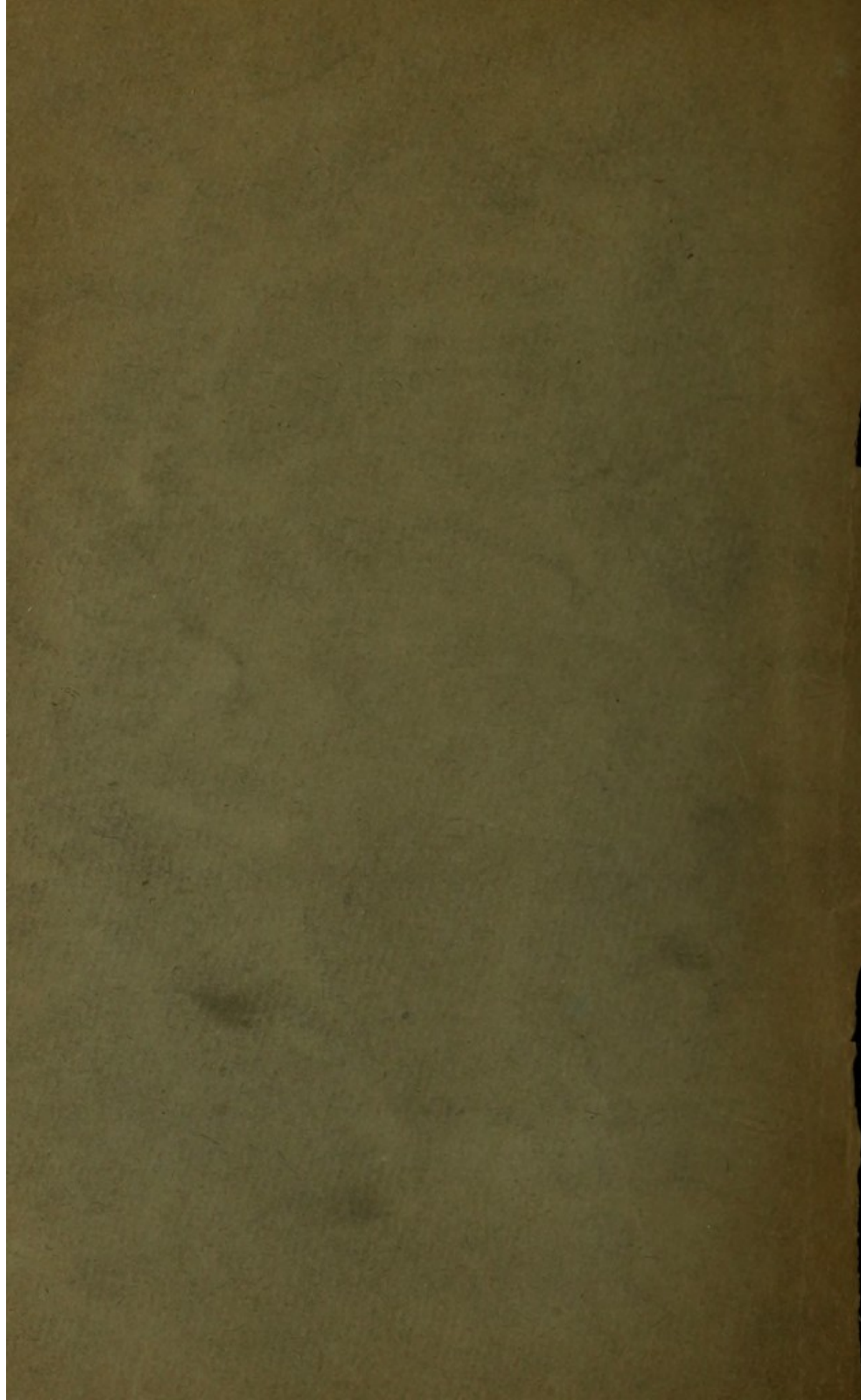
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1923.

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COMMITTEE OF ADOPTS

THE

# ANNUAL REPORT

OF THE

OF THE

TO THE SCOTTISH BOARD OF HEALTH  
AND THE  
COUNTY COUNCIL AND DISTRICT COMMITTEES  
OF ARGYLLSHIRE.

GENTLEMEN,

I beg respectfully to submit the following report on  
the health of the County during the past year, 1923.

Appended are the Annual Reports of the Assistant Tuberculosis Officer, the Sanatorium Medical Officer, and the County Sanitary Inspector.

I am,

Gentlemen,

Your obedient servant,

ROGER M'NEILL.

OBAN, 31st March, 1924.

TO THE EDITOR OF THE

AND THE

OF THE

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THE

I am very much interested in the

the health of the

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## COUNTY OF ARGYLL.

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### Twenty-Ninth Annual Report.

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#### Vital Statistics.

POPULATION.—The population of each of the seven Public Health Districts of the County, as estimated by the Registrar General, to the middle of 1923 and 1922, was as follows:—

District	Estm. Pop. 1923	Estm. Pop. 1922	Decrease
Ardnamurchan	2393	2504	111
Cowal	9910	9922	12
Islay	6277	6537	260
Kintyre	6569	6783	214
Lorn	9442	9695	253
Mid-Argyll	6588	6836	248
Mull	4845	5043	198
Total	46,024	47,320	1296

BIRTHS AND DEATHS.—The total number of births and deaths in the seven Public Health Districts and the birth and death rates per 1000 of the population corrected for transfers during the past year—

Year	Births	Birth-rate	Deaths	Death rate
1923	647	14·0	627	13·6

For all Scotland the birth-rate was 22·8 and the death-rate 12·9

In the Districts severally the number of births registered and the birth-rate per 1000 of the population corrected for transfers were as follows:—

District	Number of Births	Birth-rate
Ardnamurchan	23	9·6
Cowal	80	8·1
Islay	103	16·4
Kintyre	137	20·9
Lorn	151	16·0
Mid-Argyll	95	14·4
Mull	58	12·0

The number and percentage of Illegitimate Births in the Districts during the past year were as follows:—

District	Number of Illeg. Births	Percentage of Total Births
Ardnamurchan	4	17·4
Cowal	7	8·8
Islay	21	20·4
Kintyre	19	13·9
Lorn	11	7·3
Mid-Argyll	5	5·3
Mull	4	6·9

DEATHS.—The number of deaths from all causes and the death-rates per 1000 of the population corrected for transfers and adjusted for age and sex distribution in each of the seven Districts during the past year were as follows:—

Districts	Number of Deaths	Death-rate corrected for transfers	Death-rate corrected for transfers and adjusted for age and sex distribution
Ardnamurchan	34	14·2	9·7
Cowal	101	10·2	8·3
Islay	106	16·9	12·8
Kintyre	80	12·2	10·3
Lorn	133	14·1	11·5
Mid-Argyll	89	13·5	10·1
Mull	84	17·3	11·5

It will be observed from the above tables that the number of births in the Districts as a whole exceed the number of deaths by only 20, and that in the Districts of Ardnamurchan, Islay, Mull, and Cowal the deaths exceed the births by 61, whereas in the Districts of Kintyre, Lorn, and Mid-Argyll the births exceed the deaths by 81.

**INFANTILE DEATH RATE.**—The number of deaths of children under one year of age and the death rates per 1000 of the children born during the past and previous three years in each District were as follows:—

Districts	Number of Deaths	Death-rate 1923	Death-rate 1922	Death-rate 1921	Death-rate 1920
Ardnamurchan	2	87	38	29	100
Cowal	3	38	37	34	31
Islay	5	49	68	32	30
Kintyre	10	73	51	44	43
Lorn	3	20	38	71	44
Mid-Argyll	2	21	10	10	94
Mull	2	34	132	29	49

This gives a mean infantile death-rate for the past year of 41·7 per 1000 children born in the seven Districts against 53·4 in 1922, 39·0 in 1921, and 55·8 in 1920.

The infantile death-rate for Scotland in 1923 was 79.

**CAUSES OF DEATH.**—The following table gives the causes of death of infants under one year of age in each of the Districts.

Disease	Ardna-murchan	Cowal	Islay	Kintyre	Lorn	Mid-Argyll	Mull
Influenza . . .	...	1	...	...	...	...	...
Heart Disease . .	...	...	1	...	...	...	...
Diarrhoea and Entiritis	...	...	...	1	...	...	...
Diseases of Early Infancy & Malformation	2	1	2	5	2	2	1
Bronchitis . . .	...	...	...	2	...	...	...
Pneumonia . . .	...	...	...	2	...	...	...
Whooping Cough . .	...	...	...	...	...	...	1
Other defined Diseases	...	1	2	...	1	...	...

Of the total number of deaths registered during the year the following table gives the number in each of the Districts from acute infectious diseases and the totals for the previous five years :—

Disease	Ardna-murchan	Cowal	Islay	Kintyre	Lorn	Mid-Argyll	Mull	Totals					
								1923	1922	1921	1920	1919	1918
Scarlet Fever	...	...	...	...	...	...	...	...	...	...	2	1	1
Enteric Fever .	...	...	...	...	...	...	...	...	1	1	1	1	4
Measles .	...	...	...	1	...	1	...	2	1	...	...	1	1
Whooping Cough	...	...	...	...	...	...	3	3	1	1	3	6	9
Diphtheria .	...	...	...	...	...	...	...	...	...	1	8	6	3
Influenza .	...	4	...	2	1	...	1	8	16	30	6	14	30
Pneumonia (all forms) .	2	5	4	10	6	11	2	40	17	18	29	44	54
	2	9	4	13	7	12	6	53	36	51	49	73	102

The number of deaths from the various forms of Tuberculosis in each of the Districts during the past year was as follows :—

Disease	Ardna-murchan	Cowal	Islay	Kintyre	Lorn	Mid-Argyll	Mull	Total
Pulmonary Tuberculosis	3	5	10	5	5	9	2	39
Tubercular Meningitis	...	...	...	...	1	...	..	1
Other Tuberculosis	...	...	1	1	1	2	...	5

The total number of deaths from each form of Tuberculosis in the seven Districts during the past and previous five years was as follows :—

Disease	1923	1922	1921	1920	1919	1918
Pulmonary Tuberculosis .	39	49	35	49	44	49
Tuberculous Meningitis .	1	3	1	1	1	2
Abdominal Tuberculosis .	...	3	1	2	2	2
Other Tuberculosis .	5	3	7	9	5	4
Totals , .	45	58	44	61	52	57

The death rates per 1000 of the population, corrected for transfers, from Pulmonary Tuberculosis and from all Tuberculosis were as follows in the seven Districts during the past year :—

Districts	Pulmonary Tuberculosis	All Tuberculosis
Ardnamurchan	1·25	1·25
Cowal	0·50	0·50
Islay	1·59	1·75
Kintyre	0·76	0·91
Lorn	0·53	0·74
Mid-Argyll	1·37	1·67
Mull	0·41	0·41

The number of deaths from all causes is given in the Tables appended.

## HOUSING.

The action taken by the Local Authorities with a view to the provision of houses under the Housing, etc., Act, 1923, according to information supplied to me by the District Clerks is as follows:—

ARDNAMURCHAN.—“Two croft houses of three apartments each were built during the year. The District Committee are meantime framing a ‘Scheme of Assistance’ by way of grants and loans to builders of houses by private enterprise, and about 20 inquiries have been received by me relative to the Scheme. The Committee propose paying a free grant of £76 18s 4d for each house built of the type and size laid down in the Act.”

COWAL.—“No new houses were erected in Cowal last year under the above Act. The District Committee has framed a Scheme of Assistance by way of grants and loans for promoting the erection of houses under the Act. The amount of grant to be £100 per house. There were no houses repaired under the Act, but all the houses requiring to be repaired in the ordinary way were duly repaired.”

ISLAY.—“No dwelling houses have been repaired under Housing Scheme in this area, but a number of private owners have carried out necessary repairs on their property. There is no Housing Scheme.”

LORN.—“The District Committee are proceeding with the erection of 12, three apartment houses at Ballachulish. Tenders have been accepted and a commencement has been made with the work. It is anticipated that the houses will be completed about the middle of July, 1924.”

The District Committee have also recently formulated a scheme for the provision of houses by private builders with the assistance of grants and loans. The amount of grant which is being given by the District Committee is £77 per house, and the loan amounts to 75% of the net value of the property. Up to this date the District Committee has passed the plans for one house under this scheme, but a number of inquiries have been received in regard to same and the District Committee are hopeful that further applications will be received.

MID-ARGYLL.—“During the past year the District Committee decided to issue a subsidy of £120 to builders in respect of any new houses erected which conform to the requirements of the Scottish Board of Health in terms of the 1923 Act. Apart from that, no building operations were carried out by the District Committee or under their instructions.”

MULL.—“Nothing has been done in the area of this Local Authority during 1923 in the provision and repair of dwelling-houses under the Housing Scheme, but otherwise, in the Island of Tiree there is a prospect of a very substantial development in the provision of modern housing accommodation consequent on the creation of a large number of new smallholdings at the instance of the Board of Agriculture for Scotland.”

KINTYRE.—“The District Committee have framed a Scheme of Assistance by way of Grants for promoting the erection of

houses under the 1923 Act. The amount of Grant to be £100 per house.

#### Progress Made.

The Local Medical Officers and Sanitary Inspectors report some changes for the better in different parts of the County.

**DISTRICT OF COWAL.**—During the year plans were passed for the erection of a dwelling-house at Tighnabruaich and for alterations to a house at Innellan.

**ARDNAMURCHAN.**—The Local Medical Officer reports that four houses have been built or rebuilt during the year, *i.e.* two-roomed cottages have been enlarged to at least four rooms.

**ISLAY.**—Several good and commodious dwelling-houses have been erected at Ardbeg and Laphroig for the use of the distillery workmen only. The alterations and improvements in the houses purchased by their occupiers continues.

A new house of five apartments is in course of erection at Bruaichladdich. A new house of four apartments has been erected at Kilmeny.

**KINTYRE.**—Three villas were completed at Carradale during the year. They are owned by fishermen, but they are built with a view to supplying the wants of summer visitors more than providing accommodation for the owner and his family. Repairs to houses during the year have been quite considerable, although principally of the minor order. Extensive repairs were made to the house of a crofter at Clachan.

**LORN.**—In Glencoe and Ballachulish three new dwelling-houses have been erected—one of these was erected by a crofter with grant from Scottish Board of Health, the other two by private enterprise.

There has been a great lack of good houses in Ballachulish and Glencoe, and there is a shortage of houses in Kinlochleven. There are some signs of improvement in both Districts—12 new

workmen's dwellings are in course of erection on Gorsten Dhu, Ballachulish, and some 20 at Kinlochleven. The latter are on the Inverness-shire side of the loch but will to some extent relieve the overcrowding in Kinlochleven Village.

One new house of five apartments with scullery and milk-house was erected for a smallholder at Dalavich.

MID ARGYLL.—One small stone house and two wooden houses have been erected by owners for themselves at or near Tarbert, and a new house at Lochend has been erected by the Mid-Argyll District Committee for their roadman.

MULL.—During the year 6 new houses have been erected—1 of two apartments in the Ross of Mull; 1 of three apartments, another of five apartments and 2 of six apartments in Tiree; and 1 house in Iona.

Several houses have been repaired and altered—new roof and porch on house at Torosay; old house renovated at Dervaig; new roof and floor to house in Croggan; small addition to house at Kinlochspelve; small living-room and scullery added to house in Coll.

In my last Annual Report I drew special attention to localities where Local Medical Officers reported on the need of additional dwelling-houses and the repair of old houses (see pages 15 and 16).

### **Prevention of Infectious Disease.**

The following table gives the number of cases of Infectious Diseases at different ages notified to me during the year in each of the Districts, the number removed to hospitals and the number treated at their homes:—

## ARDNAMURCHAN.

**A**—Diseases specified in the Infectious Disease (Notification) Act, 1889.

Disease	All Ages	Under 1	1-5	5-15	15-25	25-45	45-65	65 and upwards	Cases removed to Hospital	Cases not removed to Hospital
Scarlet Fever or Scarlatina . . . . .	1	...	...	...	...	1	...	...	1	...

**B**—Diseases notifiable in terms of Regulations made under Section 78 of the Public Health (Scotland) Act, 1897.

Pulmonary Tuberculosis . . . . .	5	...	...	...	...	3	2	...	...	5
<b>Total of A and B</b>	<b>6</b>	<b>...</b>	<b>...</b>	<b>...</b>	<b>...</b>	<b>4</b>	<b>2</b>	<b>...</b>	<b>1</b>	<b>5</b>

Hospital in which Cases were treated—Ballachulish Isolation Hospital.

Number of Persons resident in the District as at 31st December, 1923,  
who were known to be suffering from Tuberculosis :—

Pulmonary Tuberculosis only . . . . .	10
Non-Pulmonary Tuberculosis only . . . . .	1
<b>Total . . . . .</b>	<b>—11</b>

## COWAL

**A**—Diseases specified in the Infectious Disease (Notification) Act, 1889.

Typhoid or Enteric Fever . . . . .	2	...	1	1	...	...	...	...	...	2
Scarlet Fever or Scarlatina . . . . .	5	...	...	5	...	...	...	...	...	5
Diphtheria and Membranous Croup	1	...	...	1	...	...	...	...	1	...
Erysipelas . . . . .	4	...	...	2	...	1	...	1	...	4

**B**—Diseases notifiable in terms of Regulations made under Section 78 of Public Health (Scotland) Act, 1897.

Chickenpox . . . . .	6	...	4	2	...	...	...	...	...	6
Acute Primary Pneumonia . . . . .	2	...	1	...	...	1	...	...	...	2
Pulmonary Tuberculosis	11	...	...	4	1	4	2	...	4	7
Non-Pulmonary Tuberculosis . . . . .	1	...	...	...	...	1	...	...	...	1
<b>Total of A and B</b>	<b>32</b>	<b>0</b>	<b>6</b>	<b>15</b>	<b>1</b>	<b>7</b>	<b>2</b>	<b>1</b>	<b>5</b>	<b>27</b>

Hospitals in which Cases were treated—Dunoon Combination Hospital;  
Bellfield Sanatorium, Lanark; Tornadee Sanatorium; Bridge-of-Weir Sanatorium; King Edward VII. Sanatorium.Number of Persons resident in the District as at 31st December, 1923,  
who were known to be suffering from Tuberculosis :—

Pulmonary Tuberculosis only . . . . .	14
Non-Pulmonary Tuberculosis only . . . . .	6
Both Pulmonary and Non-Pulmonary Tuberculosis	1
<b>Total . . . . .</b>	<b>—21</b>

## ISLAY.

**A**—Diseases specified in the Infectious Diseases (Notification) Act, 1889.

Disease	All Ages	Under 1	1-5	5-15	15-25	25-45	45-65	65 and upwards	Cases removed to Hospital	Cases not removed to Hospital
	...	...	...	...	...	...	...	...	...	...

**B**—Diseases notifiable in terms of Regulations made under Section 78 of the Public Health (Scotland) Act, 1897.

Pulmonary Tuberculosis	9	...	...	3	...	5	1	...	5	4
Non-Pulmonary Tuberculosis	1	...	...	...	1	...	...	...	...	1
Total of A and B	10	...	...	3	1	5	1	...	5	5

Cases notified in a previous year and removed to Hospital for the first time during 1923—1 case Pulmonary Tuberculosis.

Hospitals in which Cases were treated—Argyll County Sanatorium.

Number of Persons resident in the District as at 31st December, 1923, who were known to be suffering from Tuberculosis:—

Pulmonary Tuberculosis only	16
Non-Pulmonary Tuberculosis only	1
Both Pulmonary and Non-Pulmonary Tuberculosis	1
Total	—18

## KINTYRE.

**A**—Diseases specified in the Infectious Disease (Notification) Act, 1889.

Typhoid or Enteric Fever	6	...	1	1	2	1	1	...	...	6
Scarlet Fever or										
Scarlatina	7	...	...	7	...	...	...	...	2	5
Diphtheria and										
Membranous Croup	4	...	1	1	1	1	...	...	4	...
Erysipelas	1	...	...	...	...	...	...	1	...	1

**B**—Diseases notifiable in terms of Regulations made under Section 78 of the Public Health (Scotland) Act, 1897.

Acute Primary Pneumonia	3	...	...	2	...	...	...	1	...	3
Pulmonary Tuberculosis	4	...	...	...	2	2	...	...	1	3
Total of A and B	25	...	2	11	5	4	1	2	7	18

Cases notified in a previous year and removed to Hospital for the first time during 1923—1 case Pulmonary Tuberculosis.

**D**—Notified under Local Provisions, not under the Infectious Diseases (Notification) Act, 1889.

Measles	12	...	...	...	...	...	...	...	1	11
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Hospitals in which Cases were treated—Campbeltown Infectious Diseases Hospital; Argyll County Sanatorium.

Number of Persons resident in the District as at 31st December, 1923, who were known to be suffering from Tuberculosis:—

Pulmonary Tuberculosis only	9
Non-Pulmonary Tuberculosis only	1
Total	—10

## LORN.

**A**—Diseases specified in the Infectious Disease (Notification) Act, 1889.

Disease	All Ages	Under 1	1-5	5-15	15-25	25-45	45-65	65 and upwards	Cases removed to Hospital	Cases not removed to Hospital
Typhoid or Enteric Fever	2	...	...	...	...	1	1	...	2	...
Scarlet Fever or Scarlatina . . . .	24	...	2	17	4	1	...	...	21	3
Erysipelas . . . .	2	...	...	1	...	...	1	...	1	1

**B**—Diseases notifiable in terms of Regulations made under Section 78 of the Public Health (Scotland) Act, 1897

Chickenpox . . . .	6	...	2	3	1	...	...	...	...	6
Acute Primary Pneumonia . . . .	2	...	...	...	...	...	1	1	...	...
Pulmonary Tuberculosis	13	...	...	2	4	5	2	...	4	9
Non-Pulmonary Tuberculosis . . . .	5	...	1	1	1	2	...	...	...	5
Total of A and B	54	...	5	24	10	9	5	1	28	26

**C**—Diseases to which the Provisions of the Infectious Disease (Notification) Act have been extended by the Local Authority.

Measles . . . . . | 18 | ... | ... | 4 | 10 | 4 | ... | ... | 1 | 17

Hospitals in which Cases were treated—Ballachulish Isolation Hospital; M'Kelvie Isolation Hospital, Oban; Argyll County Sanatorium; Bridge-of-Weir Sanatorium.

Number of Persons resident in the District as at 31st December, 1923, who were known to be suffering from Tuberculosis:

Pulmonary Tuberculosis only . . . . .	19
Non-Pulmonary Tuberculosis only . . . . .	9
Total . . . . .	28

## MID-ARGYLL.

**A**—Diseases specified in the Infectious Disease (Notification) Act, 1889.

Disease	All Ages	Under 1	1-5	5-15	15-25	25-45	45-65	65 and upwards	Cases removed to Hospital	Cases not removed to Hospital
Scarlet Fever or Scarlatina . . . .	1	...	...	1	...	...	...	...	1	...
Erysipelas . . . .	1	...	...	...	...	...	...	1	...	1

**B**—Diseases notifiable in terms of Regulations made under Section 78 of the Public Health (Scotland) Act, 1897.

Chickenpox . . . .	2	...	1	1	...	...	...	...	...	2
Pulmonary Tuberculosis	19	...	...	3	7	6	2	1	8	11
Non-Pulmonary Tuberculosis . . . .	1	...	...	...	1	...	...	...	...	1
Total of A and B	24	...	1	5	8	6	2	2	9	15

**D**—Notified under Local Provisions not under the Infectious Disease (Notification) Act, 1889.

Measles . . . .	3	...	...	...	...	...	...	...	3	...
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Hospitals in which Cases were treated—Lochgilphead Isolation Hospital; Argyll and Bute Asylum Infirmary; Argyll County Sanatorium.

Number of Persons resident in the District as at 31st December, 1923, who were known to be suffering from Tuberculosis:—

Pulmonary Tuberculosis only . . . . .	13
Non-Pulmonary Tuberculosis only . . . . .	6
Total . . . . .	—19

## MULL.

**A**—Diseases specified in the Infectious Disease (Notification) Act, 1889.

Erysipelas . . . .	1	..	..	...	...	...	1	...	...	1
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**B**—Diseases notifiable in Terms of Regulations made under Section 78 of the Public Health (Scotland) Act, 1897.

Chickenpox . . . .	1	1	...	...	...	...	...	...	...	1
Acute Primary Pneumonia . . . .	1	...	...	...	1	...	...	...	...	1
Pulmonary Tuberculosis	9	...	...	1	2	5	1	...	4	5
Non-Pulmonary Tuberculosis . . . .	1	...	...	...	...	...	1	...	1	...
Total of A and B	13	1	..	1	3	5	3	...	5	8

Hospitals in which Cases were treated—Argyll County Sanatorium; Glasgow Royal Infirmary.

Number of Persons resident in the District as at 31st December, 1923, who were known to be suffering from Tuberculosis:—

Pulmonary Tuberculosis only . . . . .	15
Non-Pulmonary Tuberculosis only . . . . .	2
Both Pulmonary and Non-Pulmonary Tuberculosis . . . . .	1
Total . . . . .	—18

The action taken to prevent the outbreak and spread of these diseases during the year has been the same as detailed in previous reports.

SCARLET FEVER.—Of the 37 cases of Scarlet Fever notified to me during the year in the County none occurred in the Districts of Mull or Islay.

Of the 24 cases in Lorn, 5 occurred in January—4 in Connel Ferry and 1 in Taynuilt. The 4 cases in Connel were removed to Hospital and the Taynuilt case was treated at home. In March 4 cases occurred—1 in Kinlochleven and 3 in Connel Ferry, all were removed to Hospital. In June, 2 cases occurred in Carnoch and were removed to Hospital. In July, 6 cases occurred among a contingent of Boy Scouts from Liverpool who were holidaying in camp at Braevallich, Lochaweside. The six cases were removed to hospital. In August, 3 cases occurred in Taynuilt, two of which were removed to Hospital. In September, 1 case occurred at Achnacloich and was treated at home. In October, 1 case occurred in Kinlochleven and was removed to Hospital. In November, 2 further cases occurred in Kinlochleven and were removed to Hospital.

In Ardnamurchan, 1 case occurred in August in Ardgour. The patient was removed to the Ballachulish Hospital.

In Cowal, of the 5 cases notified, 3 occurred in July in one family at Kames, and 2 in another family, in September, at Colintrave. All were treated at their homes.

In Kintyre, 7 cases occurred during the year—1 at Carra-dale in January and another in April. In June, 2 occurred at Whitehouse, and 1 in Campbeltown Landward. In October, 1 occurred at Tayinloan, and in November, 1 in Campbeltown Landward. The two cases which occurred in the neighbourhood of the Burgh of Campbeltown were removed to Hospital and the others were treated at their homes.

In Mid-Argyll 1 case occurred in March at Slockavullin. The patient was removed to Hospital.

On recovery or removal to Hospital of each case the houses, clothing, etc., were disinfected. Schools were closed and disinfected where necessary. By these means the spread of infection was kept under control. In some of the outbreaks the infection was introduced from outside the County, in others the infection spread from person to person, while in some the source of infection was not traced.

ENTERIC FEVER.—10 cases of this disease were notified during the year, and of these 2 occurred in Lorn, 2 in Cowal, and 6 in Kintyre.

Of the 2 cases notified in Lorn, 1 occurred in September in a visitor at Taynult, and the other in October at Ballachulish. Both were removed to Hospital.

The 2 cases notified in Cowal occurred in the same house in September, at Kilfinan. Both were treated at home. The infection was traced to Ardrossan.

In January a considerable outbreak of Enteric Fever occurred within the Burgh of Campbeltown. For over a fortnight there were numerous cases of pyrexia with, in many instances, diarrhoea. In the second week some of them developed typhoid spots and in some cases the blood gave a strong typhoid reaction. Many of the cases were of a mild type. Almost without exception the disease seems to have appeared in people who used the milk supplied from a certain dairy farm just within the Burgh boundary. On investigation by the Burgh officials it was discovered that one of the women employed as a milker at the farm had suffered from the disease and in her case the Widal test proved positive. A male worker on the farm was also found to be suffering from the disease.

Immediately on becoming aware of this outbreak in the Burgh I wrote all the Medical Practitioners in Kintyre with a view to putting them on their guard as follows:—

“There is a considerable outbreak of Enteric Fever in Campbeltown just now. The Sanitary Inspector informs me that the number affected probably amounts to 150. The source of infection was traced to milk sold from a dairy farm within the Burgh. I understand that a number of children from the rural parts of Kintyre attend school within the Burgh and some of them may have been drinking the infected milk. I am also informed that farm servants from the District are in the habit of spending the week-ends in Campbeltown. In addition there is of course the usual inter-communication between town and country.

I only just write to put you on your guard so that if you meet with any suspicious case immediate action will be taken—Widal Test, etc., etc.”

In February, 6 cases were notified to me and of these, 3 occurred in different houses in the neighbourhood of the Burgh of Campbeltown, 2 in Carradale, and 1 at Glenbarr. The infection in each case was traceable to the outbreak in Campbeltown. All the cases were treated at their homes and no secondary cases occurred.

DIPHTHERIA.—No case of this disease occurred in the Districts of Lorn, Mid-Argyll, Mull, Ardnamurchan, or Islay.

In Cowal 1 case occurred at Strone in July and was removed to Hospital.

In Kintyre the 4 cases notified were all single cases—1 Campbeltown Landward in April, 1 at Clachan in September, and 2 in November at Tarbert. The four cases were removed to Hospital.

PNEUMONIA, DYSENTRY, ETC., REGULATIONS.—No special action was taken during the year for the control of acute

primary pneumonia, acute influenzal pneumonia, malaria, dysentery and trench fever under the Public Health (Pneumonia, Malaria, Dysentery, etc.) Regulations (Scotland) 1919, nor with regard to "Carriers" under the Public Health (Infectious Diseases Carriers) Regulations (Scotland), 1921, beyond the notification of cases of the above diseases and the isolation so far as practicable, and disinfection of premises, etc.

The following are the number of cases notified to me during the year;—

Acute Primary Pneumonia—Lorn 2, Mull 1, Cowal 2, Kintyre 3, Ardnamurchan 0, Islay 0, Mid-Argyll 0. These were all single cases in separate families.

No case of Acute Influenzal Pneumonia, Dysentery, Malaria or Trench Fever, was notified during the year.

### **Venereal Diseases.**

With a view to find out the prevalence of Venereal Diseases in the area covered by the Venereal Diseases Scheme, I communicated with all the medical practitioners practising in the seven Districts and in the Burghs of Inveraray, Lochgilphead and Tobermory. Of the 48 practitioners 34 replied "Nil" or "No case" and 3 did not reply. The following table gives the number of cases of Syphilis and Gonorrhoea met with in the practice of the remaining 11 practitioners, the number treated at home and in hospital and the number of specimens sent to the Bacteriologist for examination:—

	No. of Patients under treatment during 1923		Number treated at home		Number treated in Hospital		Number of Specimens sent to Bacteriologist for examination
	Syp.	Gon.	Syp.	Gon.	Syp.	Gon.	
Ardnamurchan	...	...	...	...	...	...	...
Cowal . . .	2	1	1	1	1	...	...
Islay . . .	...	...	...	...	...	...	...
Kintyre . . .	5	4	2	4	3	...	2
Lorn . . .	5	3	4	3	1	...	5
Mid-Argyll . .	1	1	1	1	...	...	2
Mull . . .	1	...	1	...	...	...	...
Inveraray . .	...	...	...	...	...	...	...
Lochgilphead .	1	1	1	1	...	...	2
Tobermory . .	...	...	...	...	...	...	...
Total 1923	15	10	10	10	5	...	11
Total 1922	7	5	4	4	3	1	12

It will be observed that no case of Syphilis or Gonorrhoea occurred during the year in the Districts of Ardnamurchan and Islay, nor in the Burghs of Inveraray or Tobermory.

Of the 15 cases of Syphilis reported 5 were treated in hospital. No case of Gonorrhoea was treated in Hospital. 11 specimens have been sent to the Bacteriologist for examination during the year from all the Districts.

3 doses Neokharsivan and 18 doses of Sulpharsenol were supplied for the treatment of cases at their homes.

Outfits for the collection of specimens for Wassermann Test were supplied to Medical Practitioners as required.

### Hospitals.

The Infectious Diseases Hospitals and apparatus and other means provided for disinfection, have been kept in readiness for use during the year.

Owing to the absence of epidemic disease the Infectious Diseases Hospitals in Gartnatra in the District of Islay, Tiree and Salen Hospitals in the District of Mull, Dalmally and Kilbrandon Hospitals in the District of Lorn have not been in use during the year.

### **Bacteriology.**

Dr. Lachlan Grant, Ballachulish, submitted the following statement as to the work done by him during the year:—

The Laboratory which is at the service of medical practitioners in the Highlands and Islands had more than the average number of specimens sent in for examination, all of which were reported on as speedily as possible.

Most of the specimens were of the usual type, and the diagnosis clear. Some presented unusual features, and required special and repeated investigation. All confirms the importance of early and repeated bacteriological examination in all clinically suspicious cases. This is noted as it is sometimes rendered difficult by dilatory patients who fail to co-operate with the Doctor in promptly reporting symptoms and furnishing samples of their secretion.

The recent installation of the telephone to Ballachulish East Post Office is an aid to prompt reporting on completed examinations, and it is hoped the phone will eventually be installed in the Laboratory itself, bringing it in direct communication with many of the doctors in the West Highlands and Islands.

The following is an abstract of the work carried out—

**SPUTUM EXAMINATIONS** for tubercle bacilli numbered 151, and of these 32 were found to contain the bacilli.

**URINE EXAMINATIONS** for tuberculous infection in the urinary tract numbered 7.

**WIDAL BLOOD TESTS.**—Agglutination tests for typhoid and paratyphoid A and B numbered 18.

**THROAT SWABS.**—46 swabs were received and examined by direct smear and culture and reported on with all speed.

**SMEARS FROM POSSIBLE VENEREAL DISEASE** numbered 8.

BLOOD FILMS reported on numbered 16. Two of them being for Eosinophilia from infection by the *Ascaris Lumbricoides*.

Some 70 SAMPLES OF Pus and naso-pharyngeal, bronchial, bladder, vaginal and uterine secretions were also examined and reported on.

Outfits were supplied as requested.

(Signed) LACHLAN GRANT, M.D.. D.P.H.

### Notification of Births.

The following table gives the number of births notified during the year in each of the Districts, the number of these still-born, the number attended by Midwives, and the total number of births returned by the Registrar General as having been registered in the Districts:—

District.	Number of Births notified.	Number Still-born.	Number attended by Mid-wives.	Total Number returned by Registrar-General as registered in the Districts.
Ardnamurchan	11	0	1	19
Cowal . .	42	0	0	74
Islay . .	37	1	0	99
Kintyre . .	104	5	3	132
Lorn . .	120	3	12	143
Mid-Argyll .	52	0	1	93
Mull . .	43	2	0	57
Total . .	409	11	17	617

Eight "Notifications of Practice" have been received by me from Midwives during the year. The names and addresses of these have been sent to the Central Midwives Board for Scotland.

The percentage of total births notified in 1923 which were attended by Midwives in each District was as follows:—Ardnamurchan, 9.0; Cowal, 0; Islay, 0; Kintyre, 2.8; Lorn, 10.0; Mid-Argyll, 1.9; Mull, 0.

No case of emergency in which a medical practitioner has been called in under Section 22 of the Midwives (Scotland) Act, 1915, during 1923 has come under my notice.

No case of Ophthalmia Neonatorum was notified in any of the Districts during the year,

No case of Puerperal Septicaemia was notified during the year.

Of the 17 births intimated to me as having been attended by midwives none were still-born.

No salary is paid to Inspectors or Assistant Inspectors of Midwives in any of the Districts for their work under the Midwives Act.

### Factories and Workshops.

The following table gives the number of Workshops and Home-workers' Premises, the number of employees, the number of inspections made, and the defects found and remedied during the past year as returned to me by the Local Sanitary Inspectors :—

#### ARDNAMURCHAN.

Workshop.	No. of	No. of Employees.
Joiner . . . . .	1	2

#### COWAL.

Boat Builders, . . . . .	6	23
Blacksmiths, . . . . .	7	14
Bakehouses, . . . . .	9	23
Joiners, . . . . .	17	43
Plumbers, . . . . .	5	12
Saddler, . . . . .	1	2
Shoemaker, . . . . .	1	3
Dressmakers, . . . . .	2	3
Tailors, . . . . .	2	2
Motor Repairing, . . . . .	2	4
Sailmaker, . . . . .	1	4
	<hr/>	<hr/>
	53	133

## ISLAY.

Bakers, . . . .	4	15
Tailors, . . . .	5	10
Dressmakers, . . . .	2	2
Blacksmiths, . . . .	11	12
Joiners, . . . .	7	13
Shoemakers, . . . .	2	2
Saddlers, . . . .	2	2
	—	—
	33	56

## KINTYRE.

Bakers, . . . .	5	16
Blacksmiths, . . . .	12	18
Dressmakers, . . . .	1	3
Joiners and Cartwrights, . . . .	8	10
Laundries, . . . .	1	4
Motor Repair Shops, . . . .	4	11
Plumbers, . . . .	3	6
Painters, . . . .	2	4
Saddlers, . . . .	2	3
Sailmakers, . . . .	1	2
Watchmakers, . . . .	1	1
Tailors, . . . .	3	7
Hairdressers, . . . .	2	4
	—	—
	45	89

## LORN.

Joiners, . . . .	5	8
Blacksmiths, . . . .	2	2
Tailors, . . . .	1	2
Boatbuilders, . . . .	2	4
Shoemakers, . . . .	2	2
	—	—
	12	18

## MID-ARGYLL.

Blacksmiths, . . . .	9	13
Bakers, . . . .	4	12
Dressmakers, . . . .	1	2
Boatbuilders, . . . .	2	5
Joiners, . . . .	8	13
Shoemakers, . . . .	2	4
Tailors, . . . .	7	12
Motor Repairing, . . . .	5	13
Cartwrights, . . . .	2	2
Plumbers, . . . .	3	6
Laundry, . . . .	1	2
	<hr/>	<hr/>
	44	84

## MULL.

Joiners, . . . .	3	5
Blacksmiths, . . . .	4	4
Motor Repairs, . . . .	1	2
Shoemakers, . . . .	2	2
	<hr/>	<hr/>
	10	13

The number of inspections made was as follows:—  
 Ardnamurchan, 2; Cowal, 146; Islay, 90; Kintyre, 95; Lorn,  
 45; Mid-Argyll, 171; Mull, 20.

Four of the workshops were found to be defective in regard  
 to cleanliness and this was remedied in each case.

Appended are the following Tables and Reports:—

- (1) Births, Marriages, Deaths and Causes of Death, Ardnamurchan
- (2) Do. Do. Cowal.
- (3) Do. Do. Islay.
- (4) Do. Do. Kintyre.
- (5) Do. Do. Lorn.
- (6) Do. Do. Mid-Argyll.
- (7) Do. Do. Mull.
- (8) Report of Assistant Tuberculosis Officer.
- (9) Report of Medical Officer, Argyll County Sanatorium.
- (10) Report of County and Chief District Sanitary Inspector.

TABLE No. I.—**DISTRICT OF ARDNAMURCHAN.**

Population—Estimated to middle of 1923—2393

**BIRTHS, MARRIAGES, AND DEATHS.**

	Numbers Registered in District	Transfers		Corrected Number		
		Out	In	Both Sexes	Males	Females
Total Births (includ. Illeg.)	19	1	5	23	14	9
Illegitimate Births . . .	2	...	2	4	3	1
Marriages . . . . .	4	...	...	...	...	...
Deaths . . . . .	30	...	4	34	14	20

**PRINCIPAL RATES PER 1000 OF ESTIMATED POPULATION.**

	Un- corrected	Cor. for Transfers	Cor. for Trans. and adjusted for Age and Sex. Dist.
Birth-rate . . . . .	7.9	9.6	...
Illegitimate Birth-rate per 100 Total Births	...	17.4	...
Marriage-rate . . . . .	1.7	...	...
Death-rate—All Causes . . . . .	12.5	14.2	9.7
do. —All Tuberculosis . . . . .	...	1.25	...
do. —Tuberculosis of Resp. System	...	1.25	...
Infantile Mortality Rate (Deaths under One Year per 1000 Births) . . . . .	...	87	...

**CAUSES OF DEATH (Corrected for Transfers).**

CAUSES OF DEATH	ALL AGES			AGE												
	Both Sexes	M.	F.	—1	1—5	5—10	10—15	15—25	25—35	35—45	45—55	55—65	65—75	75—85 & over		
berculosis of Resp. ystem . . . . .	3	2	1	...	...	...	...	2	...	1	...	...	...	...		
alignant Tumours . . . . .	3	1	2	...	...	...	...	1	...	...	1	1	...	...		
oplexy . . . . .	1	...	1	...	...	...	...	...	...	...	...	1	...	...		
at Disease . . . . .	4	2	2	...	...	...	...	...	...	...	1	1	1	1		
nchitis . . . . .	3	1	2	...	...	...	...	...	...	...	...	1	2	..		
eumonia (all forms)	2	2	...	...	...	...	...	...	...	...	1	...	1	...		
. of Early Infancy nd Malformations . . . . .	2	...	2	2	...	...	...	...	...	...	...	...	...	...		
er Violent Deaths . . . . .	1	1	...	...	...	...	...	...	...	...	1	...	...	...		
er Defined Diseases	15	5	10	...	...	...	1	...	2	1	..	2	2	7		
All Causes . . . . .	34	14	20	2	...	...	2	2	2	2	4	6	6	8		

TABLE No. II.—**DISTRICT OF COWAL.**

Population—Estimated to middle of 1923—9910.

**BIRTHS, MARRIAGES, AND DEATHS.**

	Numbers Registered in District	Transfers		Corrected Number		
		Out	In	Both Sexes	Males	Females
Total Births (includ. Illeg.)	74	2	8	80	50	30
Illegitimate Births . . . .	7	1	1	7	5	2
Marriages . . . . .	34	...	...	...	...	...
Deaths . . . . .	97	7	11	101	49	52

**PRINCIPAL RATES PER 1000 OF ESTIMATED POPULATION.**

	Un- corrected	Corrected for Transfers	Cor. for Trans. and adjusted for Age and Sex Dist.
Birth-rate . . . . .	7.5	8.1	...
Illegitimate Birth-rate per 100 Total Births	...	8.8	...
Marriage-rate . . . . .	3.4	...	...
Death-rate—All Causes . . . . .	9.8	10.2	8.3
do. —All Tuberculosis . . . . .	...	0.5	...
do. —Tuberculosis of Resp. System	...	0.5	...
Infantile Mortality Rate (Deaths under One Year per 1000 Births) . . . . .	...	38	...

**CAUSES OF DEATH (Corrected for Transfers).**

CAUSES OF DEATH	ALL AGES			AGE										
	Both Sexes	M.	F.	1	1	5	10	15	25	35	45	55	65	75
Influenza . . . . .	4	1	3	1	...	...	...	...	...	...	...	...	1	...
Tuberculosis of Resp. System . . . . .	5	1	4	...	...	...	...	...	...	4	1	...	...	...
Malignant Tumours . . . . .	13	5	8	...	...	...	...	...	...	...	...	2	4	7
Meningitis (not Cer. Spin. or Tuberc.) . . . . .	1	...	1	...	...	...	...	1	...	...	...	...	...	...
Apoplexy . . . . .	8	4	4	...	...	...	...	...	...	...	...	1	3	4
Heart Disease . . . . .	19	9	10	...	...	...	...	1	...	1	2	3	3	7
Bronchitis . . . . .	3	3	...	...	...	...	...	...	...	...	...	...	3	...
Pneumonia (all forms) . . . . .	5	1	4	...	1	...	...	...	...	...	...	...	3	1
Appendicitis . . . . .	2	...	2	...	...	1	...	...	...	...	...	...	...	1
All Diseases of Liver (not Malignant) . . . . .	1	...	1	...	...	...	...	...	...	...	1	...	...	...
Nephritis, Acute and Chronic . . . . .	7	6	1	...	...	...	...	...	...	...	...	...	6	1
Dis. of Early Infancy Malformations . . . . .	1	1	...	1	...	...	...	...	...	...	...	...	...	...
Other Violent Deaths . . . . .	3	3	...	...	...	...	...	...	1	...	...	1	1	...
Other Defined Diseases	27	15	12	1	...	...	...	...	...	2	...	3	9	6
Causes Ill-defined or Unknown . . . . .	2	...	2	...	...	...	...	...	...	...	...	...	1	1
All Causes . . . . .	101	49	52	3	1	1	...	2	1	7	4	10	34	28

TABLE No. III.—**DISTRICT OF ISLAY.**

Population—Estimated to middle of 1923—6277.

**BIRTHS, MARRIAGES, AND DEATHS.**

	Numbers Registered in District	Transfers		Corrected Number		
		Out	In	Both Sexes	Males	Females
Total Births (includ. Illeg.)	99	1	5	103	54	49
Illegitimate Births . . . . .	18	...	3	21	11	10
Marriages . . . . .	27	...	...	...	...	...
Deaths . . . . .	92	1	15	106	56	50

**PRINCIPAL RATES PER 1000 OF ESTIMATED POPULATION.**

	Un- corrected	Corrected for Transfers	Cor. for Trans. and adjusted for Age and Sex Dist.
Birth-rate . . . . .	15·8	16·4	...
Illegitimate Birth-rate per 100 Total Births	...	20·4	...
Marriage-rate . . . . .	4·3	...	...
Death-rate—All Causes . . . . .	14·7	16·9	12·8
do. —All Tuberculosis . . . . .	...	1·75	...
do. —Tuberculosis of Resp. System	...	1·59	...
Infantile Mortality Rate (Deaths under One Year per 1000 Births . . . . .	...	49	...

**CAUSES OF DEATH (Corrected for Transfers).**

CAUSES OF DEATH	ALL AGES			AGE											
	Both Sexes	M.	F.	—1	—1	5—	10—	15—	25—	35—	45—	55—	65—	75—	85 & over
Other Epidemic Diseases	1	1	...	...	...	...	...	...	...	1	...	...	...	...	...
Tuberculosis of Resp. System . . . . .	10	8	2	...	...	...	...	3	5	...	...	1	1	...	...
Other Tuberc. Disease	1	1	...	...	...	...	...	1	...	...	...	...	...	...	...
Malignant Tumours . . . . .	10	4	6	...	...	...	...	...	...	...	...	2	6	2	...
Typhoid Fever . . . . .	1	...	1	...	...	...	...	...	...	...	...	1	...	...	...
Meningitis (not Cer. Spinal or Tuberc.) . . . . .	1	1	...	...	1	...	...	...	...	...	...	...	...	...	...
Diphtheria . . . . .	16	11	5	...	...	...	...	...	...	...	1	3	6	4	2
Heart Disease . . . . .	19	9	10	1	...	...	...	...	...	...	2	3	9	3	1
Oncitis . . . . .	8	4	4	...	...	...	...	...	...	...	...	1	1	4	2
Pneumonia (all forms) . . . . .	4	4	...	...	...	...	1	...	...	...	...	1	1	1	...
Other Diseases of Resp. System . . . . .	1	...	1	...	...	...	...	...	...	...	...	...	...	1	...
Nephritis, Acute and Chronic . . . . .	4	1	3	...	...	...	...	...	...	...	...	2	1	1	...
Sc. of Early Infancy, and Malformations . . . . .	2	1	1	2	...	...	...	...	...	...	...	...	...	...	...
Other Violent Deaths . . . . .	3	2	1	...	...	...	...	...	...	...	...	...	1	2	...
Other Defined Diseases	22	7	15	2	...	...	...	...	...	1	...	6	1	10	2
Causes Ill-defined or unknown . . . . .	3	2	1	...	...	...	...	...	...	...	...	...	3	...	...
All Causes . . . . .	106	56	50	5	1	...	1	4	5	2	3	20	30	28	7

TABLE IV.—**DISTRICT OF KINTYRE.**

Population—Estimated to middle of 1923—6569.

**BIRTHS, MARRIAGES, AND DEATHS.**

	Numbers Registered in District	Transfers		Corrected Number		
		Out	In	Both Sexes	Males	Females
Total Births (includ. Illeg.)	132	1	6	137	78	59
Illegitimate Births . . . . .	18	...	1	19	8	11
Marriages . . . . .	21	...	...	...	...	...
Deaths . . . . .	65	...	15	80	45	35

**PRINCIPAL RATES PER 1000 OF ESTIMATED POPULATION.**

	Un- corrected	Corrected for Transfers	Cor. for Trans. and adjusted for Age and Sex Dist.
Birth-rate . . . . .	20.1	20.9	...
Illegitimate Birth-rate per 100 Total Births	...	13.9	...
Marriage-rate . . . . .	3.2	...	...
Death-rate—All Causes . . . . .	9.9	12.2	10.3
do. —All Tuberculosis . . . . .	...	0.91	...
do. —Tuberculosis of Resp. System	...	0.76	...
do. —Prin Epidemic Dis. (* below)	...	0.3	...
Infantile Mortality Rate (Deaths under One Year per 1000 Births . . . . .)	...	73	...

**CAUSES OF DEATH (Corrected for Transfers).**

CAUSES OF DEATH	ALL AGES			AGE											
	Both Sexes	M.	F.	1	1	5	10	15	25	35	45	55	65	75	
*Measles . . . . .	1	1	...	...	...	...	...	...	...	...	1	...	...	...	
Influenza . . . . .	2	...	2	...	...	...	...	...	1	...	...	1	...	...	
Tuber. of Resp. System	5	3	2	...	...	...	...	2	1	...	2	...	...	...	
Other Tuberc. Disease	1	1	...	...	...	...	...	...	...	...	...	1	...	...	
Malignant Tumours . .	6	1	5	...	...	...	...	...	...	...	1	...	4	...	
Apoplexy . . . . .	10	5	5	...	...	...	...	...	...	...	2	...	2	5	
Heart Disease . . . . .	13	9	4	...	...	...	1	...	...	...	...	2	5	4	
Disease of Arteries . .	1	1	...	...	...	...	...	...	...	...	...	...	...	1	
Bronchitis . . . . .	7	5	2	2	...	...	...	...	...	...	...	...	...	5	
Pneumonia (all forms)	10	5	5	2	1	...	...	...	...	...	...	...	3	4	
Other Diseases of Resp System . . . . .	2	2	...	...	1	1	...	...	...	...	...	...	...	...	
*Diarrhœa and Enteritis (under 2 years) . . . . .	1	...	1	1	...	...	...	...	...	...	...	...	...	...	
All Diseases of Liver (not Malignant) . . . . .	1	..	1	...	...	...	...	...	...	...	...	...	...	1	
Nephritis, Acute and Chronic . . . . .	2	2	...	...	...	...	...	..	...	...	...	1	1	...	
Dis. of Early Infancy and Malformations	5	3	2	5	...	...	...	...	...	...	...	...	...	...	
Other Violent Deaths . .	1	1	...	...	...	...	...	...	...	1	...	...	...	...	
Other Defined Diseases	11	6	5	...	2	...	...	...	...	2	...	...	3	1	
Causes Ill-defined or Unknown . . . . .	1	...	1	...	...	...	...	...	...	...	...	...	1	...	
All Causes . . . . .	80	45	35	10	4	1	1	2	2	3	6	5	19	21	

TABLE V.—DISTRICT OF LORN.

Population—Estimated to middle of Year 1923—9442.

## BIRTHS, MARRIAGES, AND DEATHS.

	Numbers Registered in District	Transfers		Corrected Number		
		Out	In	Both Sexes	Males	Females
Total Births (includ. Illeg.)	143	2	10	151	85	66
Illegitimate Births . . . . .	6	...	5	11	4	7
Marriages . . . . .	33	...	...	...	...	...
Deaths . . . . .	101	1	33	133	84	49

## PRINCIPAL RATES PER 1000 OF ESTIMATED POPULATION.

	Un- corrected	Corrected for Transfers	Cor. for Trans. and adjusted for Age and Sex. Dist.
Birth-rate . . . . .	15.1	16.0	...
Illegitimate Birth-rate per 100 Total Births	...	7.3	...
Marriage-rate . . . . .	3.5	...	...
Death-rate—All Causes . . . . .	10.7	14.1	11.5
do. —All Tuberculosis . . . . .	...	0.74	...
do. Tuberculosis of Resp. System	...	0.53	...
do. —Prin. Epidemic Dis. (* below)	...	0.11	...
Infantile Mortality Rate (Deaths under One Year per 1000 Births) . . . . .	...	20	...

## CAUSES OF DEATH (Corrected for Transfers).

CAUSES OF DEATH	ALL AGES			AGE											
	Both Sexes	M.	F.	1	5	10	15	25	35	45	55	65	75	85 & over	
Influenza . . . . .	1	1	...	...	...	...	...	...	...	...	...	...	...	1	
Scarlet Epidemic Dis. . . . .	1	1	...	...	...	...	...	...	...	1	...	...	...	...	
Scarlet of Resp. System	5	3	2	...	...	...	...	1	...	3	1	...	...	...	
Scarlet Meningitis . . . . .	1	...	1	...	1	...	...	...	...	...	...	...	...	...	
Scarlet Tuberc. Disease	1	1	...	...	...	...	...	1	...	...	...	...	...	...	
Significant Tumours . . . . .	19	9	10	...	...	...	...	...	1	...	4	9	5	...	
Stupor . . . . .	13	8	5	...	...	...	...	...	...	...	3	3	7	...	
Heart Disease . . . . .	15	11	4	...	...	...	...	...	...	1	1	6	7	...	
Diseases of Arteries . . . . .	3	2	1	...	...	...	...	...	...	1	1	1	...	...	
Nephritis . . . . .	6	2	4	...	...	...	...	...	1	2	2	1	...	...	
Pneumonia (all forms)	6	2	4	...	...	...	...	...	...	2	1	2	1	...	
Other Diseases of Resp. System . . . . .	4	3	1	...	...	...	...	...	1	2	...	...	1	...	
Enteritis and Enteritis (under 2 years) . . . . .	1	1	...	...	1	...	...	...	...	...	...	...	...	...	
Appendicitis . . . . .	2	1	1	...	...	...	...	...	2	...	...	...	...	...	
Diseases of Liver (not Malignant) . . . . .	1	1	...	...	...	...	...	...	...	...	1	...	...	...	
Gonorrhoea, Acute and Chronic . . . . .	6	5	1	...	...	...	...	1	...	...	3	1	...	1	
Scabies of Early Infancy and Malformations	2	1	1	2	...	...	...	...	...	...	...	...	...	...	
Side . . . . .	2	1	1	...	...	...	...	1	1	...	...	...	...	...	
Other Violent Deaths	10	9	1	...	1	...	2	1	...	2	1	1	1	1	
Other Defined Diseases	27	18	9	1	...	...	...	...	2	2	2	7	6	7	
Diseases Ill-defined or Unknown . . . . .	7	4	3	...	...	...	...	...	1	2	2	...	2	...	
All Causes . . . . .	133	84	49	3	3	...	2	5	9	18	22	31	30	10	

TABLE No. VI.—**DISTRICT OF MID-ARGYLL.**

Population — Estimated to middle of Year 1923—6588.

**BIRTHS, MARRIAGES, AND DEATHS.**

	Numbers Registered in District	Transfers		Corrected Number		
		Out	In	Both Sexes	Males	Females
Total Births (includ. Illeg.)	93	2	4	95	48	47
Illegitimate Births . . .	4	...	1	5	2	3
Marriages . . . . .	20	...	...	...	...	...
Deaths . . . . .	106	30	13	89	44	45

**PRINCIPAL RATES PER 1000 OF ESTIMATED POPULATION.**

	Un- corrected	Corrected for Transfers	Cor. for Trans. and adjusted for Age and Sex Dist.
Birth-rate . . . . .	14.1	14.4	...
Illegitimate Birth-rate per 100 Total Births	...	5.3	...
Marriage-rate . . . . .	3.0	...	...
Death-rate—All Causes . . . . .	16.1	13.5	10.1
do. —All Tuberculosis . . . . .	...	1.67	...
do. —Tuberculosis of Resp. System	...	1.37	...
do. —Prin. Epidemic Dis. ( * below)	...	0.15	...
Infantile Mortality Rate (Deaths under One year per 1000 Births) . . . . .	...	21	...

**CAUSES OF DEATH (Corrected for Transfers).**

CAUSES OF DEATH	ALL AGES			AGE												over 75
	Both Sexes	M.	F.	—1	1—5	5—10	10—15	15—25	25—35	35—45	45—55	55—65	65—75			
*Measles . . . . .	1	1	...	...	...	1	...	...	...	...	...	...	...	...		
Tuber. of Resp. System	9	5	4	...	...	...	...	3	3	2	1	...	...	...		
Other Tuberc. Disease	2	1	1	...	...	...	...	...	2	...	...	...	...	...		
Malignant Tumours . . . . .	7	3	4	...	...	...	...	...	...	2	2	1	2	...		
Apoplexy . . . . .	10	5	5	...	...	...	...	...	...	1	1	2	5	1		
Heart Disease . . . . .	12	3	9	...	...	...	...	...	2	1	1	3	4	1		
Bronchitis . . . . .	7	3	4	...	...	...	...	...	...	2	...	1	3	1		
Pneumonia (all forms)	11	7	4	...	1	...	...	2	...	1	...	2	1	3		
Other Diseases of Resp. System . . . . .	2	1	1	...	...	...	...	...	...	...	...	...	1	1		
Nephritis, Acute and Chronic . . . . .	4	3	1	...	...	...	...	...	1	...	1	2	...	...		
Other Dis. and Acc. of Preg. and Parturition	1	...	1	...	...	...	1	...	...	...	...	...	...	...		
Dis. of Early Infancy and Malformations	2	1	1	2	...	...	...	...	...	...	...	...	...	...		
Other Violent Deaths	3	2	1	...	...	...	...	...	...	1	1	1	...	...		
Other Defined Diseases	16	8	8	...	1	...	...	...	1	1	...	4	5	4		
Causes Ill-defined or Unknown . . . . .	2	1	1	...	...	...	...	...	1	...	1	...	...	...		
All Causes . . . . .	89	44	45	2	2	1	...	6	3	10	9	9	15	23		

TABLE VII.—**DISTRICT OF MULL.**

Population—Estimated to middle of 1923—4845.

**BIRTHS, MARRIAGES, AND DEATHS.**

	Numbers Registered in District.	Transfers		Corrected Number		
		Out	In	Both Sexes	Males	Females
Total Births (includ. Illeg.)	57	...	1	58	41	17
Illegitimate Births . . . . .	4	...	..	4	3	1
Marriages . . . . .	8	...	...	...	...	...
Deaths . . . . .	80	1	5	84	41	43

**PRINCIPAL RATES PER 1000 OF ESTIMATED POPULATION.**

	Un- corrected	Corrected for Transfers	Cor. for Trans. and adjusted for Age and Sex Dist.
Birth-rate . . . . .	11·8	12·0	...
Illegitimate Birth-rate per 100 Total Births	...	6·9	...
Marriage-rate . . . . .	1·7	...	...
Death-rate—All Causes . . . . .	16·5	17·3	11·5
do. —All Tuberculosis . . . . .	...	0·41	...
do. —Tuberculosis of Resp. System	...	0·41	...
do. —Prin. Epidemic Dis. (* below)	...	0·62	...
Infantile Mortality Rate (Deaths under One Year per 1000 Births) . . . . .	...	34	..

**CAUSES OF DEATH (Corrected for Transfers).**

CAUSES OF DEATH	ALL AGES			AGE												
	Both Sexes	M.	F.	—1	1—5	5—10	10—15	15—25	25—35	35—45	45—55	55—65	65—75	75—85	85 & over	
Whooping-cough . . . . .	3	1	2	1	1	1	...	...	...	...	...	...	...	...	...	
Influenza . . . . .	1	...	1	...	...	...	...	...	...	...	...	...	1	...	...	
Tuber. of Resp. System	2	1	1	...	...	...	...	...	1	1	...	...	...	...	...	
Malignant Tumours . . . . .	11	5	6	...	...	...	...	...	...	1	1	3	3	3	...	
Meningitis (not Cer. Spin. or Tuberc.) . . . . .	1	...	1	...	...	...	...	...	1	...	...	...	...	...	...	
Apoplexy . . . . .	6	3	3	...	...	...	...	...	...	...	...	...	1	4	1	
Heart Diseases . . . . .	12	6	6	...	...	...	...	...	...	...	1	2	4	4	1	
Diseases of Arteries . . . . .	1	1	...	...	...	...	...	...	...	...	...	...	1	...	...	
Bronchitis . . . . .	3	2	1	...	...	...	...	...	...	...	...	1	2	...	...	
Pneumonia (all forms)	2	1	1	...	...	...	...	...	...	1	1	...	...	...	...	
All Diseases of Liver (not Malignant) . . . . .	1	1	...	...	...	...	...	...	...	...	...	...	1	...	...	
Nephritis, Acute and Chronic . . . . .	2	1	1	...	...	...	...	...	1	...	...	...	...	1	...	
Other Dis. and Acc. of Preg. and Parturition	2	...	2	..	...	...	...	...	1	1	...	...	...	...	...	
Dis. of Early Infancy and Malformations	1	1	...	1	...	...	...	...	...	...	...	...	...	...	...	
Other Defined Diseases	30	15	15	...	...	...	...	1	...	...	...	1	7	13	8	
Causes Ill-defined or Unknown . . . . .	6	3	3	..	...	...	1	...	...	...	...	1	2	2	...	
All Causes . . . . .	84	41	43	2	1	1	1	1	4	4	3	8	22	27	10	



## ANNUAL REPORT, 1923.

### TUBERCULOSIS.

By Dr. Gunn.

NOTIFICATIONS.—118 cases of Tuberculosis, all forms, were notified, including 97 pulmonary and 21 non-pulmonary.

This total is exactly the same as in the previous year and 12·6 less than the mean total of the previous quinquennium.

Pulmonary notifications were 6 less than in the previous year and 6·8 less than the mean of the previous quinquennium. Non-pulmonary notifications were 6 more than in the previous year and 5·8 less than the mean of the previous quinquennium.

Judging by these statistics, the mass of tuberculous disease in the County area (including Burghs) remains practically the same as last year. A disquieting feature of the notifications was the marked excess of female cases over males, 59 as against 38. This unusual occurrence had a serious effect upon the treatment of female cases. During practically the whole year, the Sanatorium has been unable to cope with the demand for accommodation for female cases.

DISTRIBUTION.—Cases were notified from the various County Districts and Burghs as follows:—Ardnamurchan 5, Cowal 12, Islay 11, Kintyre 3, Lorn 19, Mid-Argyll 19, Mull 10, Campbeltown 24, Dunoon 5, Oban 3, Inveraray 1, Lochgilphead 5, Tobermory 1.

As compared with the previous years, increases were noted in Islay (1), Lorn (6), Mid-Argyll (5), Lochgilphead (4), Inveraray (1). These increments are, however, exactly balanced by decreases in Cowal (1), Kintyre (6), Dunoon (5), Oban (12), Tobermory (1). In Ardnamurchan the total was unchanged.

CLASSIFICATION.—Of the 97 Pulmonary cases notified, 43 were early cases, 24 chronic, but more or less amenable to treatment, and 23 were advanced cases, not amenable to curative treatment.

Seven cases were notified by Registrars of Deaths.

TREATMENT INSTITUTIONAL.—

(1) COUNTY SANATORIUM OBAN.—25 cases were admitted, of which 19 belonged to the County Districts and 6 to the Burghs.

(2) TUBERCULOSIS WARD, FEVER HOSPITAL, DUNOON.—This new accommodation was made available in July. 4 juvenile cases were admitted by the end of the year, 1 from Dunoon and 3 from Campbeltown.

(3) CALTON HOSPITAL, CAMPBELTOWN.—2 Cases from Kintyre and 3 from the Burgh of Campbeltown were admitted to this Hospital.

(4) ARGYLL AND BUTE ASYLUM, LOCHGILPHEAD.—4 of the 9 cases notified from Mid-Argyll, were at the time, resident in the Argyll and Bute Asylum.

(5) SANATORIA OUTWITH THE COUNTY.—6 cases were admitted to Sanatoria outwith the County, viz :—Bellfield Sanatorium, Lanark (Cowal case), Tornadee Sanatorium, Aberdeenshire (Cowal case), King Edward VII Sanatorium, Sussex (Cowal case), Bridge of Weir Sanatorium (1 Cowal case, 1 Lorn case, and 1 case from Lochgilphead Burgh).

DOMICILIARY.—At the end of the year, some 185 cases of Pulmonary Tuberculosis were being treated in their homes. Of these 67 received assistance under the Domiciliary Benefit Scheme for the provision of Drugs and Comforts. 43 cases received Benefit up to the maximum of 10/- weekly, 6 received up to 7/6 weekly, 4 received 6/- weekly, 2 received 5/- weekly, 13 received 3/- weekly, and 1 received 1/- weekly. The total comprised 81 non-insured cases, 87 insured cases and 17 paupers.

Of the total non-insured cases (81) 21 cases required medical attendance once weekly, and 34 required medical attendance once monthly on an average.

**MORTALITY.—COUNTY DISTRICTS.**—45 deaths occurred from Tuberculosis (all forms), 39 being due to the pulmonary form and 6 due to non-pulmonary disease. Compared with the previous year, pulmonary deaths were 10 less, and non-pulmonary 3 less. Pulmonary deaths were 6.2 less and non-pulmonary 3.2 less than the mean of the previous quinquennium.

**BURGHES.**—19 deaths from Tuberculosis, (all forms) occurred, 14 being due to pulmonary and 5 due to non-pulmonary disease. Compared with the previous year, pulmonary deaths were 4 less and non-pulmonary 3 more.

**GENERAL.**—The steady decline in Phthisis mortality which has been characteristic of the disease for many years throughout Scotland, has been maintained in the area under the County Scheme during the year 1923.

The actual prevalence of the disease however, does not appear to lessen materially from year to year. One is therefore justified in assuming that the specific resistance of the general population is somehow or other on the increase.

Current medical opinion inclines to the view that the problem of Tuberculosis is best attacked by measures which are directed primarily towards raising the specific resistance of the susceptible elements of the population. Pending the solution of the housing and kindred social problems, immediate efforts should be concentrated on those families known to be affected. The infrequency of sporadic cases of the disease in this County leaves no doubt but that such a policy is highly indicated in order to meet most effectively the peculiarities of the disease in Argyllshire.

The Domiciliary Benefit Scheme, now two years existent in Argyllshire, has proved itself a most useful instrument towards that end. Apart from the immediate benefit accruing to the patient as a result of his better nourishment, the economic strain of supporting a sick member is removed from the family, with consequent benefit to the other members.

Again, the fact that a particular family is in receipt of assistance, for the purposes of treatment, from the Local Authority, enables better supervision to be exercised over the management of the case than would be otherwise possible. One positive result which I have observed to accrue from the Scheme is the lessening reluctance of patients to undergo Sanatorium Treatment, when such a course is represented to them as a necessary supplement to successful subsequent treatment at home.

Promising progress has been made in the utilization of the Tuberculosis Ward at Dunoon Fever Hospital. This accommodation, enlarged if necessary, might be usefully reserved for juvenile cases. At present it constitutes a nucleus for the preventive treatment of juvenile cases in the "pretuberculous" stage, a line of treatment which is fruitful of good results in the future.

The following table gives the number of cases of Pulmonary and Non-pulmonary Tuberculosis notified in the County, including the Burghs, and the number treated in the Sanatorium or other institutions during the last and previous five years:—

Year	Pulmonary Tuberculosis			Non-Pul. Tuberculosis	
	Cases notified	Cases treated in Sanatorium	Cases treated in Hospital	Cases notified	Cases treated in Hospital
1918 . .	86	29	14	21	3
1919 . .	102	24	9	22	5
1920 . .	133	41	5	43	11
1921 . .	95	44	2	33	8
1922 . .	103	32	1	15	4
1923 . .	97	25	19	21	1

The following table gives the distribution of cases in the County Districts and Burghs, the number removed to the Sanatorium or Hospitals, the number treated at home, and the number in receipt of Domiciliary Benefit during the year 1923.—

District or Burgh	Pulmonary Tuberculosis				Non-Pul. Tuberculosis.		
	Cases notified during 1923	Admit. to Hos. or Sanat'm dur. 1923	Treat. at Home	Cases in rec. of Dom. Benefit	Cases notified	Treat. in Hos.	Treat. at Home
Ardnamurchan	5	0	5	5	0	0	0
Cowal . . .	11	4	7	6	1	0	1
Islay . . .	9	6	3	1	1	0	1
Kintyre . . .	4	3	1	5	0	0	0
Lorn . . . .	13	4	9	11	5	0	5
Mid-Argyll .	19	9	10	6	1	0	1
Mull . . . .	9	4	5	5	1	1	0
Campbeltown .	12	8	4	18	11	0	11
Dunoon . . .	5	2	3	4	0	0	0
Oban . . . .	3	2	1	4	1	0	1
Lochgilphead .	5	1	4	1	0	0	0
Inveraray . .	1	1	0	0	0	0	0
Tobermory . .	1	0	1	1	0	0	0

The following table shows the distribution of cases in the County, according to the nature of the complaint, and the number of cases in each of the several classes, during the year 1875.

NATURE OF COMPLAINT.	MALES.		FEMALES.		TOTAL.
	Number.	Percentage.	Number.	Percentage.	
Acute Rheumatism	12	0.0001	15	0.0001	27
Chronic Rheumatism	10	0.0001	12	0.0001	22
Gout	10	0.0001	12	0.0001	22
Sciatic Rheumatism	10	0.0001	12	0.0001	22
Neuralgia	10	0.0001	12	0.0001	22
Migraine	10	0.0001	12	0.0001	22
Headache	10	0.0001	12	0.0001	22
Vertigo	10	0.0001	12	0.0001	22
Stomachic Disturbance	10	0.0001	12	0.0001	22
Diarrhoea	10	0.0001	12	0.0001	22
Constipation	10	0.0001	12	0.0001	22
Flatulence	10	0.0001	12	0.0001	22
Indigestion	10	0.0001	12	0.0001	22
Stomachic Pain	10	0.0001	12	0.0001	22
Stomachic Discomfort	10	0.0001	12	0.0001	22
Stomachic Weakness	10	0.0001	12	0.0001	22
Stomachic Irritation	10	0.0001	12	0.0001	22
Stomachic Inflammation	10	0.0001	12	0.0001	22
Stomachic Ulcer	10	0.0001	12	0.0001	22
Stomachic Cancer	10	0.0001	12	0.0001	22
Stomachic Syphilis	10	0.0001	12	0.0001	22
Stomachic Tuberculosis	10	0.0001	12	0.0001	22
Stomachic Leucæmia	10	0.0001	12	0.0001	22
Stomachic Anæmia	10	0.0001	12	0.0001	22
Stomachic Chlorosis	10	0.0001	12	0.0001	22
Stomachic Melancholia	10	0.0001	12	0.0001	22
Stomachic Epilepsy	10	0.0001	12	0.0001	22
Stomachic Mania	10	0.0001	12	0.0001	22
Stomachic Dementia	10	0.0001	12	0.0001	22
Stomachic Paralysis	10	0.0001	12	0.0001	22
Stomachic Convulsions	10	0.0001	12	0.0001	22
Stomachic Coma	10	0.0001	12	0.0001	22
Stomachic Death	10	0.0001	12	0.0001	22

The following table shows the number of cases of Polio-myelitis, and the number of deaths, during the year 1875, in the County, according to the nature of the complaint, and the number of cases in each of the several classes, during the year 1875.

NATURE OF COMPLAINT.	MALES.		FEMALES.		TOTAL.
	Number.	Percentage.	Number.	Percentage.	
Polio-myelitis	10	0.0001	12	0.0001	22
Paralysis	10	0.0001	12	0.0001	22
Convulsions	10	0.0001	12	0.0001	22
Coma	10	0.0001	12	0.0001	22
Death	10	0.0001	12	0.0001	22

2 Victoria Crescent,  
OBAN, 31st December, 1923.

TO THE MEMBERS OF THE ARGYLL COUNTY  
TUBERCULOSIS COMMITTEE.

GENTLEMEN,

The following is my FOURTEENTH ANNUAL REPORT  
for the period from 1st January to 31st December, 1923.

At the date of my last Annual Report there were 28  
patients under treatment in the Sanatorium—19 males and 9  
females—from the following districts:—

Mid-Argyll, . . . . .	2	Kintyre, . . . . .	4
Mull, . . . . .	2	Lorn, . . . . .	2
Islay, . . . . .	7	Campbeltown, . . . . .	2
Ardnamurchan, . . . . .	5	Oban, . . . . .	1
Dunoon, . . . . .	2	Private, . . . . .	1

Since that date 25 patients were admitted—13 males and  
12 females—from the undernoted districts:—

Mid-Argyll, . . . . .	5	Oban, . . . . .	2
Mull, . . . . .	4	Campbeltown, . . . . .	2
Islay, . . . . .	6	Dunoon, . . . . .	1
Kintyre, . . . . .	1	Inveraray, . . . . .	1
Lorn, . . . . .	3		

32 patients were discharged during the year—21 males and  
11 females. Of these the disease was arrested in 10, much  
improved in 11, no improvement in 1, and 10 died.

There remain 21 patients under treatment—11 males and  
10 females—from the districts mentioned below:—

Mid-Argyll, . . . . .	3	Ardnamurchan, . . . . .	1
Lorn, . . . . .	3	Oban, . . . . .	1
Mull, . . . . .	3	Dunoon, . . . . .	1
Islay, . . . . .	6	Inveraray, . . . . .	1
Kintyre, . . . . .	2		

The same classification has been adopted as in former Reports, namely, Dr Turban's Classification:—

STAGE I.—Disease of slight severity affecting at most one lobe, or two half lobes of the lung.

STAGE II.—Disease of slight severity, more extensive than Stage I., but affecting at most two lobes, or severe and affecting at most one lobe.

STAGE III.—Disease of greater extent and severity than Stage II.

STAGE I.—At date of last Annual Report six cases remained under treatment, and four new cases were admitted. Six were discharged with disease arrested, one much improved, and three remain under treatment.

STAGE II.—Fifteen cases remained under treatment, and nine new cases were admitted. Four were discharged with disease arrested, six much improved, one died, and thirteen remain under treatment.

STAGE III.—Seven cases remained under treatment, and twelve new cases were admitted. Four were discharged much improved, one no improvement, nine died, and five remain under treatment.

GENERAL SUMMARY.—Since the Sanatorium was opened on 13th July, 1909, 526 cases have been admitted for treatment. Of these 196 were discharged with disease arrested, 108 much improved, 40 improved, 56 no improvement, 105 died, and 21 remain under treatment.

Tubercle bacilli were present in the sputum of 22 out of the 25 cases admitted.

2 re-admissions are included in the cases admitted during the year.

Table showing age of patients admitted:—

Under 15, . . . . .	3	Under 36-45, . . . . .	4
15-25, . . . . .	9	Over 45, . . . . .	1
26-35, . . . . .	8		

DEATH RATE.—The death rate works out roughly at 40 per 100 of the cases admitted during the year.

A considerable number of the patients contracted the disease outside of the County. Six of the patients admitted were ex-service men.

# OCCUPATION.

## MALES.

Ex-Soldier, . . . . .	1	Sailor, . . . . .	1
Rabbit trapper, . . . .	1	Lighthouse Keeper (ex-	
Farm Manager, . . . . .	1	Service), . . . . .	1
Postmen (ex-Service),	2	Police Constable (ex-	
Labourer, . . . . .	1	Service), . . . . .	1
Shipwright, . . . . .	1	Clerk (ex-Service), .	1
Apprentice Engineer,	1	Schoolboy, . . . . .	1

## FEMALES.

At Home, . . . . .	4	Teacher, . . . . .	1
Housewives, . . . . .	4	Hospital Nurse, . . .	1
School Girls, . . . . .	2		

Table showing number of cases admitted in the three stages of the disease since the opening of the Sanatorium:—

Year.	No. of Cases.	Stage I.	Stage II.	Stage III.
1909-10	39	12	19	8
1910-11	33	12	15	6
1911-12	28	6	9	13
1912-13	34	7	11	16
1913-14	48	7	22	19
1914-15	62	15	28	19
1915-16	43	11	16	16
1916-17	44	6	18	20
1918	29	1	16	12
1919	24	2	12	10
1920	41	10	22	9
1921	44	10	18	16
1922	32	10	12	10
1923	25	4	9	12
Totals.	526	113	227	186

Table showing Districts, Burghs, etc., from which cases were admitted since the opening of the Sanatorium:—

YEAR	1909-10	1910-11	1911-12	1912-13	1913-14	1914-15	1915-16	1916-17	1918	1919	1920	1921	1922	1923
<b>I.—DISTRICTS</b>														
Lorn ...	15	11	10	9	13	20	11	9	7	7	7	4	7	3
Kintyre ...	4	1	5	3	2	2	2	1	5	—	—	2	4	1
Cowal ...	6	7	2	—	2	1	4	2	1	1	1	1	—	—
Ardnamurchan	1	—	1	2	4	1	3	5	—	—	—	9	2	—
Mid-Argyll ...	4	2	3	4	6	12	4	7	4	7	9	7	—	5
Mull ...	—	3	5	4	8	8	6	9	4	1	1	2	—	4
Islay ...	—	—	—	—	4	8	4	3	2	2	2	5	4	6
<b>II.—BURGHES</b>														
Oban ...	4	7	1	11	4	5	5	6	—	1	7	4	6	2
Dunoon ...	—	—	—	—	1	—	—	—	—	1	8	3	4	1
Campbeltown	—	—	—	—	—	2	2	—	4	1	5	—	2	2
Inveraray ...	—	—	—	—	1	—	—	2	—	1	1	1	—	1
Lochgilphead	—	—	—	—	1	2	—	—	2	1	—	5	2	—
<b>III.—OTHERS AND PRIVATE</b>														
Inverness ...	—	—	—	—	—	—	1	—	—	—	—	—	—	—
Private ...	5	2	1	1	2	1	1	—	—	1	—	1	1	—
Totals ...	39	33	28	34	48	62	43	44	29	24	41	44	32	25

The mortality continues high owing to the advanced type of the cases admitted. No deaths occurred in cases admitted in the First Stage. One death happened in cases admitted in the Second Stage, but this case was complicated with Brights Disease and Dropsy. The remaining nine deaths all took place in cases admitted in the Third Stage. Two of these cases were ex-soldiers who had been gassed in the War, another only lived four days being moribund on admission, and another case was admitted with advanced diabetes as a complication and only lived five days.

Seventeen of the cases admitted were between the ages of 15 and 35. Three were under 15 and five over 35. Unfortunately Pulmonary Tuberculosis is not a malady of old age with its attendant decrepitude, but generally attacks those in the hey-day of youth when life's hopes and opportunities look

brightest, and people in the prime of life when their earning powers are at their highest, and therefore represents a great economic loss to the Country.

The number of patients admitted is seven less than last year, and the smallest number admitted since 1919. Twelve were in an advanced stage of the disease, nine in the second stage of the disease, and only four in the early stage. I have drawn attention before to the fact of so many cases being admitted in such an advanced stage of the disease that there is practically no hope of improvement. These cases are proving very costly as they require prolonged residential treatment, special food, medicines, extra fuel and light, and extra night nurses.

The big mortality, owing to the admission of so many of these cases, has a detrimental effect in attracting early cases to take advantage of Sanatorium treatment, and tends to bring discredit on the Institution as a curative agent.

The purpose of the Sanatorium is to treat early cases with the view of arresting the disease, and it should not be used as an isolation hospital for advanced and hopeless cases. In this connection I may quote from Sir Robert Philip's address on "The actual position of the Tuberculosis Problem To-day" delivered by request at the Conference of The National Association for the prevention of Tuberculosis, at Birmingham, in July, 1923, in which he says—"In many places the Sanatorium has been allowed to become the dumping ground for every sort of case, the undesirable (chronic or advanced) being much in evidence. The result has been hopeless confusion, the piling up of long waiting lists, and the blocking of Sanatoriums against suitable cases until, in many instances, the suitable have perforce lapsed into the unsuitable. The Sanatorium, in place of fulfilling its special purpose in the campaign, namely the arrest of disease in early cases, has by reason of the hopeless method of giving every one his turn—two or three months apiece—drifted into being little more than a temporary shelter for the patching up of damaged lives. The Sanatorium must be restored to its proper purpose. The immense significance of Sanatorium treatment, when properly directed, is acknowledged by the great majority of those who are in a position to judge of practical results."

There being no special provision for the treatment of advanced cases in the County, they are admitted to the Sanatorium where they generally remain till they die, and this often means a residence of years, unless, as sometimes happens, their

relatives insist on removing them back to their own homes. It is deplorable to think of these dying cases returning home unless they can be thoroughly isolated, otherwise they become a great source of danger to the other inmates of their homes.

The most potent factor in combating the disease is the patients natural powers of resistance, and this is the reason why so much importance is attached to Sanatorium treatment of early cases. The Sanatorium patient is placed under the most advantageous conditions with the view of strengthening these inherent immunising powers. Domiciliary Treatment can never take the place of or give the beneficial results of Sanatorium treatment. Many cases treated at home for long periods are eventually sent into the Sanatorium in a hopeless condition.

Frequent concerts have been given at the Sanatorium during the year. These excellent entertainments have been organized, as in former years, by Ex-Provost Black, O.B.E., and have proved a great source of pleasure to the patients.

Dr McNeill, the Consulting Medical Officer, Dr Gunn, the Tuberculosis Officer, Miss Macdonald, the Matron, and all the other members of the staff have rendered valuable assistance during the year.

A synopsis of the cases and results is appended.

I am, Gentlemen,

Your obedient servant,

DUNCAN MACDONALD.

SYNOPSIS OF CASES AND RESULTS FOR THE PERIOD FROM  
1ST JANUARY TO 31st DECEMBER, 1923.

I. Cases in Sanatorium at date of last Annual Report.

No. on Register	DISTRICT.	Age.	Sex.	No. of Days Treatment.	Weight Gained in lbs.	Stage of Disease (Turban)	Result.
†374	Mid-Argyll	35	M	—	—	2	In Sanatorium
418	Mull	16	F	—	—	2	do.
425	Mid-Argyll	20	M	883	9	2	Much improved
430	Islay	16	"	812	—	3	No improvement
445	do.	25	"	—	—	1	In Sanatorium
461	Mull	27	"	722	—	3	Died
†462	Ardnamurchan	24	"	686	—	3	do.
464	do.	18	"	502	33½	2	Disease arrested
465	Private	47	F	480	14	2	Much improved
466	Islay	28	M	576	22¾	2	do.
†468	Ardnamurchan	34	"	590	1½	2	do.
473	Dunoon	32	F	688	—	3	Died
479	Kintyre	28	"	—	—	2	In Sanatorium
480	Islay	50	M	—	—	2	do.
483	Ardnamurchan	24	"	301	12½	1	Disease arrested
484	Kintyre	13	"	322	22	1	do.
487	Ardnamurchan	23	F	526	—	2	In Sanatorium
488	Islay	20	M	321	8½	1	Disease arrested
489	Kintyre	25	F	269	3½	1	Much improved
490	Lorn	31	M	227	14	2	Disease arrested
493	Campbeltown	19	F	183	33¾	1	do.
494	Islay	23	M	393	—	2	Died
495	Dunoon	38	"	717	23	3	Much improved
497	Lorn	24	"	—	—	3	In Sanatorium
498	Kintyre	22	F	—	—	2	do.
499	Campbeltown	32	"	148	6	2	Disease arrested
500	Oban	39	M	295	—	3	Much improved
501	Islay	26	"	189	10	2	Disease arrested

II. Cases admitted since 1st January, 1923.

†502	Mid-Argyll	29	M	103	—	3	Died
503	Mull	17	"	—	—	2	In Sanatorium
504	Lorn	45	"	4	—	3	Died
505	Islay	23	"	—	—	2	In Sanatorium
506	Mull	21	F	182	3½	1	Disease arrested
507	Islay	19	M	—	—	2	In Sanatorium
508	Oban	22	F	265	5	3	Much improved
509	Campbeltown	14	"	159	—	3	do.
510	Kintyre	44	M	76	—	3	Died
†511	Campbeltown	44	"	149	12	2	Much improved
512	Mull	22	"	—	—	3	In Sanatorium
513	Islay	26	"	86	—	3	Died
514	Mid-Argyll	48	F	5	—	3	do.
515	Islay	23	M	—	—	2	In Sanatorium
516	Mid Argyll	13	F	181	1½	1	Disease arrested
517	Mull	42	"	108	10½	2	Much improved
518	Inveraray	26	M	—	—	1	In Sanatorium
519	Islay	8	"	—	—	1	do.
520	Mid-Argyll	22	F	—	—	2	do.
521	Islay	27	M	52	—	3	Died
522	Lorn	30	F	—	—	3	In Sanatorium
523	Dunoon	27	"	—	—	2	do.
524	Lorn	30	"	—	—	2	do.
525	Oban	27	"	—	—	3	do.
526	Mid-Argyll	18	"	—	—	3	do.

N.B.—Those marked with a † are re-admission cases.

TABLE 1. - *Continued*

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## FOURTH ANNUAL REPORT

BY THE  
COUNTY SANITARY INSPECTOR.

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COUNTY OF ARGYLL.

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Report by the County and Chief District Sanitary Inspector  
to the Scottish Board of Health, County Council, and  
District Committees of Argyllshire.

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GENTLEMEN,

I beg respectfully to submit the following Report  
on the Sanitary condition of the County, together with "State-  
ment of Proceedings" as required by the Scottish Board  
of Health.

I am,

Gentlemen,

Your obedient Servant,

JOHN S. ANDERSON.

County Sanitary Department,  
Oban, 31st March, 1924.

## GENERAL.

During the year there were notified 197 cases of infectious disease from the seven districts of the County, including Pulmonary and Non-pulmonary Tuberculosis, as follows:—

Ardnamurchan, 6 ; Cowal, 32 ; Islay, 10 ; Kintyre, 37 ; Lorn, 72 ; Mid-Argyll, 27 ; and Mull, 13.

70 cases of Pulmonary and 9 cases of Non-pulmonary Tuberculosis were notified and there were 39 deaths from Pulmonary and Non-Pulmonary Tuberculosis during the year.

The following table shows the number of cases of infectious disease notified from the seven districts of the County, the number removed to Hospital or Sanatorium, and the number treated at their homes:—

Disease	Ardnamurchan	Cowal	Islay	Kintyre	Lorn	Mid-Argyll	Mull	Total
Diphtheria . . . . .	...	1	...	4	...	...	...	5
Erysipelas . . . . .	...	4	...	1	2	1	1	9
Scarlet Fever . . . . .	1	5	...	7	24	1	...	38
Acute Primary Pneumonia . . . . .	...	2	...	3	2	...	1	8
Enteric Fever . . . . .	...	2	...	6	2	...	...	10
Chickenpox . . . . .	...	6	...	...	6	2	1	15
Measles . . . . .	...	...	...	12	18	3	...	33
Pulmonary Tuberculosis . . . . .	5	11	9	4	13	19	9	70
Non-Pulmonary Tuberculosis . . . . .	...	1	1	...	5	1	1	9
Total . . . . .	6	32	10	37	72	27	13	197
Cases removed to Hospital or Sanatorium . . . . .	1	5	5	8	29	12	5	65
Cases treated at Home . . . . .	5	27	5	29	43	15	8	132

In addition to the above, 2 cases of Pulmonary Tuberculosis, notified in the previous year, were removed to the Sanatorium during 1923.

In connection with Infectious Diseases the Sanitary Inspectors made 267 visits of Inquiry, sent 57 intimations to School Boards, Teachers, etc., 128 Houses or Premises were disinfected also 120 sets of Bedding, Clothing, etc.

### Special Report and Inquiries.

ARDNAMURCHAN.—Drainage, Druimbeg, Acharacle.

COWAL.—Sanitary conveniences, Burnside Terrace, Carrick Castle; insanitary conditions, Strachur; Constable's house, Lochgoilhead; Sanitary conveniences, Glencroe School; Sewage outfalls, Kilmun, Strone and Blairmore.

ISLAY.—Insanitary houses at Port Ellen and Bowmore.

LORN.—Refuse removal, Balvicar; Ashpits, St. John's School, Ballachulish; Drainage Muckairn Manse, Taynuilt; Drainage, Lower Carnoch and Clachaig, Glencoe; Ardanaiseig, Kilchrennan; Loanfern, Ballachulish; and Balvicar House, Balvicar; Water Supplies—Taynuilt, Balvicar, and Kilchrenan.

MULL.—Water Supply, Tiree.

### Water Supplies.

COWAL.—At the East End Section of Innellan the piping which was defective was replaced with larger pipes. Complaint was received in July regarding Knockiemillie Reservoir supply. The tank was emptied and cleaned out. At Sandbank the supply was adequate for all purposes.

ISLAY.—All the special water supply districts gave an adequate supply. At Port Ellen 160 yards of 4" piping laid in the village from Islay Hotel corner to corner of Lennox Street will improve this supply.

LORN.—The question of the formation of a special water supply district for Taynuilt and the adjoining hamlets was under consideration at the end of the year. The existing supply was not considered of good quality and samples from other likely

sources were taken and submitted for analysis. The cost and practability of the various schemes is under consideration. As this district is always full up with visitors and grows in popularity each year it will be necessary to keep that in mind and provide a plentiful supply to meet all contingences.

MULL.—Complaint was made regarding the supply from a pump well at Ballemartin, Tiree. An inspection was made and a sample submitted for analysis. The analyst's report showed that the water was not safe for domestic or drinking purposes. The supply was condemned and the pump put out of action. A stable and cesspool near at hand and the fact that the well was below the School and other houses would probably account for the condition of the supply.

MID.ARGYLL.—The local Sanitary Inspector for the northern district of South Knapdale reported that no works were carried out at the reservoir during the year, and that the filter is out of working order.

MULL.—Some necessary repairs of a minor nature were carried out on the pump supplies in the Salen and Bunessan Districts. The efficiency was maintained throughout the year.

#### Drainage.

ARDNAMURCHAN.—There are no special drainage districts in this area. Complaint was made regarding the drainage and sewage outfall at Druimbeg, Acharacle, and an inspection was made when it was found necessary to relay the greater portion of the drainage and put in a septic tank. The work was in progress at the end of the year.

COWAL.—A report was submitted to the District Committee regarding the sewer outfalls from a point at Cot Houses, Kilmun, to Blairbeg side of Blairmore. The question whether the proprietors will be asked to extend the sewers or a special Drainage District be formed is under consideration. A complaint was received regarding the sewage outfall from Colintrave

Hotel. An inspection was made and it was found that the crude sewage was discharging into a nearby burn and causing a nuisance. To carry the pipes to the foreshore was found to be too costly and a septic tank was put in and the nuisance remedied.

#### **Dairies.**

Registration is not in force in the Districts of Ardnamurchan and Mull.

Although Registration is in force in the District of Lorn it was found that during our periodic visits many had not applied for Registration. Bye-laws were framed and put in force for the better regulation of the Dairies. The Veterinary Surgeon and the Local Sanitary Inspectors made regular visits during the year.

In Mid-Argyll the Dairies are also regularly visited and any defects found (which were mostly of a minor character) were subsequently remedied. The same thing applies to the dairies in the Cowal and Islay Districts.

#### **Slaughter-houses.**

There are 16 private Slaughter-houses in Cowal; Mull 1, Mid-Argyll 8, Islay 14, Lorn 19. There are no licensed Slaughter-houses in Ardnamurchan.

There are only 2 Public Slaughter-houses in the County—1 at Ballachulish and 1 at Port Ellen, Islay.

482 inspections were made during the year by the Sanitary Inspectors.

Several improvements were carried out at Ballachulish Slaughter-house during the year and a caretaker appointed. During the year there were killed at Ballachulish Slaughter-house:—

Sheep.	Cows.	Calves.	Pigs.
606	2	2	1

The butchers using Ballachulish Slaughter-house do not kill during the first three or four months of the year but get their meat from the Glasgow Meat Market.

At a great many of the private slaughter-houses there are only a few sheep killed during the year.

#### **Public Health (Meat Inspection) Regulations (Scotland), 1923.**

The above Regulations came into force in June 1923 to provide a more uniform and adequate inspection of meat intended for the food of man.

In the District of Lorn, the Veterinary Surgeon was appointed Meat Inspector, and the County and Local Sanitary Inspectors Detention Officers.

In a scattered area such as this it is a matter of some difficulty where there are so many private slaughter-houses to arrange for a proper inspection unless certain days and hours are fixed for slaughtering.

#### **Burial Grounds.**

With the exception of a complaint of overcrowding at St. John's, Ballachulish, which was being attended to at the end of the year, nothing was reported regarding Burial Grounds.

#### **Removal of Household Refuse.**

The chief complaints received were of neglect by the contractors in some of the Special Scavenging Districts which were promptly looked into and remedied.

A report was submitted to Cowal District Committee with a recommendation that the Districts of Kilmun, Strone, and Blairmore, be formed into a Special Scavenging District.

#### **Housing.**

The various Local authorities offer assistance in their Districts for the erection of houses by private enterprise. The amount of grant given varies from £76 18s 4d in Ardnamurchan

to £120 in Mid-Argyll. The subsidy in the other Districts are £100 in Cowal, £77 in Lorn, and £100 in Kintyre. Nothing has been done in the Districts of Islay and Mull.

Many improvements and additions have been carried out during the year, such as additions of bathrooms, sanitary conveniences and increased accommodation generally.

The Ballachulish Housing Scheme for the erection of 12 houses was under way at the end of the year.

The British Aluminium Co., Ltd. are erecting houses on the Inverness side of the River Leven for their workers.

The following new houses were erected and alterations and additions to existing houses carried out during the year:—

COWAL—Lochgoilhead—additions to Bungalow, addition to Shelter by Glasgow Corporation. Grocer's Shop (Army Hut), new bath fitted. Several repairs and alterations are being carried out in the Parish of Inverchaolain at Knockdow Mansion House. Strachur and Stralachlan—additions at Clachan, Strachur, of 4 apartments, with all conveniences (Bath and W.C.) Memorial Hall comprising large hall and 3 other apartments with W.C. Several new W.C.'s introduced in Sandbank District.

ISLAY.—Portnahaven—alterations to house and addition of bathroom. Port Charlotte—W.C.'s introduced into 3 houses. New house of 5 apartments in course of erection at Bruichladdich. Kilmeny—A new Keeper's House of 4 apartments erected at Staoisha for a Keeper. A barn at Cruach, Bowmore, has been converted into a dwelling house.

At Port Ellen, Islay, no new houses were built during the year. Several of the houses here could be certified as unfit for habitation, but with the scarcity that already exists in this district in housing accommodation it would serve no good purpose, unless other and better accommodation can be provided.

The Local Sanitary Inspector reports that "out of 120 houses in the village of Port Ellen 61 are without sanitary conveniences," and that "several of the houses on the south side of the village have at times as much as 4 inches of sea water on the floors."

In this District the owners have given the occupants the opportunity to become proprietors of their own houses, and this has to some extent been taken advantage of. The rents are very small.

3 houses had water laid on and sanitary conveniences introduced during the year.

MULL.—6 new houses were erected during the year, 1 of two apartments at Ross of Mull, and 6 at Tiree—1 of three apartments, 1 of five apartments, and 2 of six apartments. Alterations and additions were carried out at—Ballimeanoch, Torosay, new W.C. at Morenish School, 2 new W.C.'s at Achna-drish, old houses renovated at Dervaig—kitchen, parlour, and three bedrooms. At Colonsay a water supply has been led into most of the houses.

MID-ARGYLL.—Water supply introduced into house at Craignish. Tarbert—4 new W.C.'s and water introduced to a tenement there and 3 new houses built, one of two rooms, kitchen, scullery, and W.C., one of room and kitchen (water laid on), dry closet, and one of two rooms, kitchen, and scullery with no water, dry closet (corrugated iron).

The above houses are outwith water and drainage districts.

LORN.—Alterations and additions were carried out at Ballachulish House comprising kitchen, dairy, laundry, store room, and new W.C. At St. Mary's School and Teachers' house two new W.C.'s for School and a W.C. for Teachers' house were provided. A new house of kitchen, sitting-room, four bedrooms, bath, W.C. (h & c), was erected at Carnoch, Glencoe. A new

house of room and kitchen with bath and W.C. was erected at Tayfuirst, Ballachulish Estate. A new house of two rooms, kitchen, with bath and W.C., at Brecklet, Ballachulish was erected.

ARDNAMURCHAN.—Two crofters houses of three apartments each were built, one at Gorstenecorn and one at Camusaine.

#### Sale of Food and Drugs Act, etc.

During the year 75 samples were procured for analysis throughout the County, distributed as follows:—

	Milk.	Butter.	Whisky.	Cocoa.	Totals.
Cowal . . .	34	1	6	1	42
Islay . . .	8	0	0	0	8
Lorn . . .	10	0	1	0	11
Mid-Argyll .	10	0	0	0	10
Mull . . .	3	1	0	0	4
Totals . . .	65	3	7	1	75

Of the 75 samples procured for analysis 64 proved to be genuine and 11 to be under the standard.

Of the 42 samples taken in the District of Cowal for analysis, 31 of milk, 1 butter, 3 whisky and 1 cocoa, proved to be genuine; 3 of milk and 3 of whisky were under the standard.

The 3 milk samples were all taken from the same vendor and in two of these cases proceedings were taken. In both cases the proceedings were unsuccessful once "not proven," and in the other case "not guilty."

In the case of the the third sample the District Committee decided not to institute proceedings. Of the 3 whisky samples under the standard, 2 were informal and 1 formal. Warnings were given in each case.

Of the 8 samples taken in the District of Islay, all of milk, 2 proved to be under the standard. As the deficiency was so slight and it was a first offence in each case a warning was considered sufficient.

Of the 11 samples taken in the District of Lorn 3 samples of milk and 1 of whisky proved to be under the standard. As it was a first offence, a warning was given in each of these cases.

Of the 10 samples taken in the District of Mid-Argyll, 2 of the milk samples proved to be under the standard, and a warning was given in each case.

The 4 samples taken in the District of Mull proved to be genuine.

## COUNTY OF ARGYLL (EXCLUDING KINTYRE).

Statement by Sanitary Inspector of Proceedings under the Public Health and other Acts during 1923.

	Ardna- murchan	Cowal	Islay	Lorn	Mid-Argyll	Mull	Total
Subordinate Sanitary Inspectors employed . . . . .	2	8	4	7	5	3	29

### I.—Nuisances.

Complaints received . . . . .	4	73	30	87	13	7	214
Intimations served under Sec. 19 . . . . .	1	73	30	87	12	7	210
Notices served under Sec. 20 . . . . .	—	—	—	—	—	1	1

### II.—Workshops.

Inspections . . . . .	2	146	90	45	171	20	474
Notices served under Sec. 2 (3) of Factory and Workshop Act, 1901 . . . . .	—	—	—	2	—	—	2

### III.—Tents and Vans.

Inspections . . . . .	—	36	—	—	10	1	47
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### IV.—Underground Dwellings. Nil.

## V.—Common Lodging-Houses. Nil.

## VI.—Houses Let in Lodgings. Nil.

## VII.—Infectious Diseases.

	Ardnamurchan	Cowal	Islay	Lorn	Mid Argyll	Mull	Total
Visits of Inquiry, etc.	8	36	10	144	55	24	277
Patients removed to Hospital	1	1	—	25	4	—	31
Persons removed to House of Reception	—	—	—	2	2	—	4
Notices served under Sec. 50 (2)	1	20	—	33	7	3	64
Notices served under Sec. 53 (2)	—	—	—	—	—	—	—
Intimations to School Boards, Teachers, etc.	1	14	—	32	6	4	57
Houses or Premises disinfected	6	21	6	55	28	12	128
Sets of Clothing, Bedding, etc., disinfected or destroyed	7	23	6	46	28	10	120

## VIII.—Burials.

Burials undertaken in terms of Sec. 69	—	1	—	—	1	—	2
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## IX.—Dairies, Cowsheds, and Milkshops.

On Register at 31st Dec., 1923	—	21	10	77	12	—	120
Inspections	10	92	46	235	76	32	491

## X.—Slaughter-Houses and Offensive Trades.

Applications under Sec. 32 for sanction to establish	—	1	—	3	1	—	5
Applications granted	—	—	—	2	1	—	3
Applications under Sec. 33 for Licence or Renewal of Licence	—	15	13	18	7	1	54
Applications granted	—	15	13	18	7	1	54
Public Slaughter-Houses (if any) belonging to Local Authority	—	—	1	1	—	—	2
Private Slaughter-Houses	—	15	13	19	8	1	56
Inspections of Slaughter-Houses	—	87	156	187	40	12	482

## XI.—Unsound Food.

Inspections under Sec. 43	—	54	128	132	29	5	348
Seizures of Unsound Food	—	<del>45</del>	<del>11</del>	<del>30</del>	<del>12</del>	<del>4</del>	<del>116</del>

## XII.—Sale of Food and Drugs Acts.

	Arna- murchan	Cowal	Islay	Lorn	Mid-Argyll	Mull	Total
Samples procured for Analysis . . . . .	—	42	8	11	10	4	75
Certified to be genuine . . . . .	—	39	6	7	8	4	64
Certified to be adulterated . . . . .	—	3	2	4	2	—	11
Cases in which legal proceedings were taken . . . . .	—	2	—	—	—	—	2

## XIII.—Rag Flock Act, 1911. Nil.

## XIV.—Bye-Laws.

Inspections in carrying out bye-laws relating to—

(a) Pigstyes . . . . .	—	34	7	12	15	6	74
(b) Public Conveyances . . . . .	—	—	—	3	—	—	3
(c) Buildings . . . . .	—	8	6	4	12	—	30
(d) Cleansing in Special Scav- enging Districts . . . . .	—	12	48	27	35	—	122
(e) Other Sanitary matters . . . . .	9	28	46	35	112	22	252

