

## **Annual medical and sanitary report / Saint Vincent.**

### **Contributors**

Saint Vincent. Chief Medical Officer's Office.

### **Publication/Creation**

Kingstown : Govt. Printers., [1929]

### **Persistent URL**

<https://wellcomecollection.org/works/gm82hfqf>

### **License and attribution**

You have permission to make copies of this work under a Creative Commons, Attribution license.

This licence permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited. See the Legal Code for further information.

Image source should be attributed as specified in the full catalogue record. If no source is given the image should be attributed to Wellcome Collection.



Wellcome Collection  
183 Euston Road  
London NW1 2BE UK  
T +44 (0)20 7611 8722  
E [library@wellcomecollection.org](mailto:library@wellcomecollection.org)  
<https://wellcomecollection.org>

e.L. *Print AC. 754* *Woodward* *Y*

SAINT VINCENT

---

ANNUAL MEDICAL

AND

SANITARY REPORT

---

1929.

---

KINGSTOWN :

PRINTED AT THE GOVERNMENT PRINTING OFFICE.

1930.



22501560548

SAINT VINCENT

---

ANNUAL MEDICAL

AND

SANITARY REPORT

---

1929.

---

KINGSTOWN :

PRINTED AT THE GOVERNMENT PRINTING OFFICE.

---

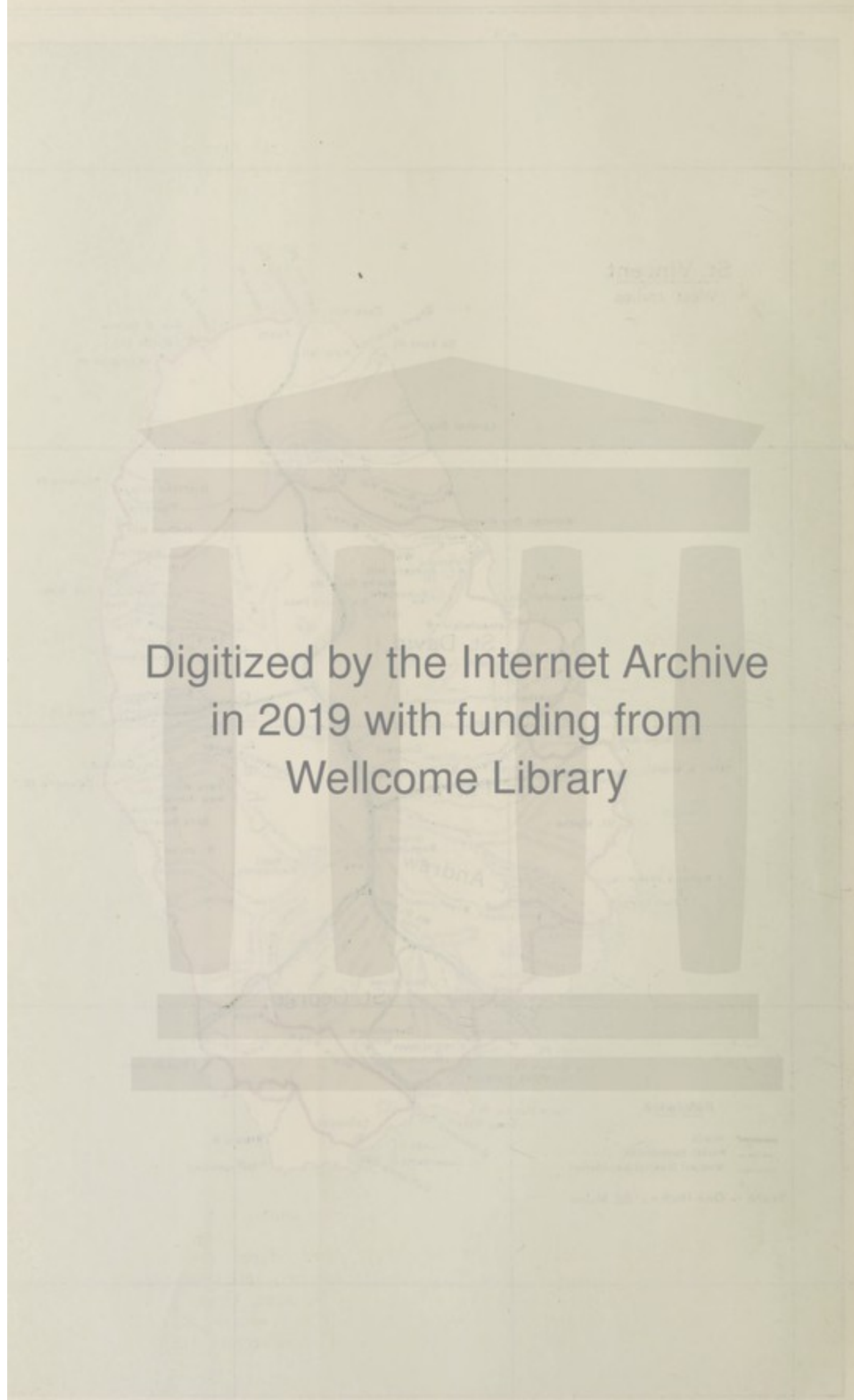
1930.

|         |
|---------|
| WELLS   |
| LIBRARY |
| +       |
| Ann Rep |
| WA28    |
| GW5     |
| S15     |
| 1929    |



# St. Vincent West Indies





Digitized by the Internet Archive  
in 2019 with funding from  
Wellcome Library

<https://archive.org/details/b31497251>



CHIEF MEDICAL OFFICER'S OFFICE,  
ST. VINCENT,  
7th May, 1930.

Sir,—I have the honour to submit for the information of His Excellency the Governor, and for transmission to the Right Honourable the Secretary of State, the Medical Report on the Health and Sanitary conditions of St. Vincent for the year 1929, with the Returns &c., appended thereto.

I have etc.,

STANLEY BRANCH,  
*Chief Medical and Health Officer.*

His Honour  
THE ADMINISTRATOR,  
(678/1930).

## REPORT OF THE MEDICAL DEPARTMENT FOR THE YEAR ENDING 31ST DECEMBER, 1929.

### 1. Administration.

#### (a) STAFF.

Dr. Charles, Medical Officer, District 4, on leave from 15. 12. 28 resumed on 1. 1. 29. Dr. Gregory, Medical Officer, District 1, on leave from 23. 9. 28 resumed on 23. 3. 29. Dr. Bonello, Medical Officer, District 2 (South), was granted 4½ months' vacation leave from 19. 7. 29 followed by 1½ months' leave on half pay. The duties of the district during Dr. Bonello's absence were discharged by the Resident Surgeon and Medical Officer, District 2 (North), in conjunction with the duties of their substantive posts.

Dr. Gallwey, Medical Officer, District 5, was granted 15 days' leave from 7. 7. 29. His duties were performed by Medical Officer, District 4.

Dr. Slinger, Medical Officer, District 3, was granted 40 days' vacation leave from 23. 7. 29. The duties of the district were discharged by Medical Officer, District 4 and Medical Officer, District 5. Medical Officer, District 4 resided at the quarters of Medical Officer, District 3.

Dr. Charles, Medical Officer, District 4 was granted 3 months' vacation leave from 18. 9. 29 followed by 1 month's study leave on full pay and 1 month's leave on half pay.

The duties of District 4 were discharged by Medical Officer, District 3 and Medical Officer, District 5, in conjunction with the duties of their substantive posts.

Dr. Morgan retired from his position as Medical Officer, Southern Grenadines, at the end of June. He was seconded for special duty on the Malarial Survey of Grenada by the International Health Board of the Rockefeller Foundation. His place was taken by Dr. Ross. Unfortunately owing to the illness of Dr. Ross and the failure to arrange satisfactory transport facilities no visits were paid by the Medical Officer to the Southern Grenadines during November and December.

The Nurse Matron was granted 9 days' leave from April 2nd. Mr. J. L. Chapman, Chief Sanitary Inspector was granted vacation leave on full pay from 13. 11. 29 to 16. 1. 30.

Many and various departmental changes were arranged for among the Junior Staff of Dispensers, Sanitary Inspectors and District Nurses.

The Junior Staff is dissatisfied with the small emolument offered, and the apparent hopelessness of increase after years of service. It has been attracted by the inducements offered and obtained in the oil refineries of Curaçac, Oruba and Maracaibo. Of those who have been trained locally and left our service I am pleased to record their success in foreign fields in search of more remunerative employment.



## (b) ORDINANCES AFFECTING THE PUBLIC HEALTH ENACTED DURING THE YEAR 1929.

1. Ordinance No. 9 of 1929 to amend the law relating to Quarantine.
2. Ordinance No. 26 of 1929 to amend the Public Health Ordinance 1927.

## (c) FINANCIAL.

The Revenue and Expenditure for the years 1928 and 1929 are herewith shown :—

| REVENUE.   | 1928.      | 1929.       |
|--|------------|-------------|
|  | £ s. d.    | £ s. d.     |
| Receipts from Hospital and Graham Wing ...   | 64 11 4    | 82 8 8      |
| " " Dispensaries ...   | 187 8 10   | 192 0 8     |
| " " Police and Prisons ...   | 11 9 3     | 13 8 11     |
| Refund of Rent of House for M.O.D. 2<br>(South) as shown in subhead 40 of Ex-<br>penditure (1929 a period of 7 months<br>only) ... | 30 0 0     | 17 10 0     |
|  | 293 9 5    | 305 8 3     |
| EXPENDITURE.   | 1928.      | 1929.       |
|  | £ s. d.    | £ s. d.     |
| Personal Emoluments ...  | 6,574 15 4 | 6,578 2 6   |
| Other Charges ...  | 6,039 5 1  | 5,966 13 11 |
| Total ...  | 12,614 0 5 | 12,544 16 5 |
| Revenue of the Colony ...  | 64,593 9 8 | 64,090 0 6  |

## Expenditure due solely to Sanitation :—

|                            |             |            |
|----------------------------|-------------|------------|
|                            | 1928.       | 1929.      |
|                            | £ s. d.     | £ s. d.    |
| a. Personal Emoluments ... | 612 2 2     | 645 5 0    |
| b. Other Charges ...       | 1,491 9 9   | 1,287 12 9 |
|                            | 2,103 11 11 | 1,932 17 9 |

The allocation of the expenditure was arranged under the following sub-heads :—

|  |              |
|--|--------------|
|  | £ s. d.      |
| 1. Kingstown, Scavenging and Cleaning ..               | 723 4 7      |
| 2. Small Towns " " ..                                  | 306 4 7      |
| 3. Anti-mosquito work ..                               | 7 9 10       |
| 4. Rat Destruction ..                                  | 3 14 9       |
| 5. Public and School latrines ..                       | 60 12 10     |
| 6. Vaccines and Serums (including refrigeration) ..    | 51 18 0      |
| 7. Disinfection of premises ..                         | 18 17 1      |
| 8. Purchase Optical Lantern and accessories ..         | 41 0 5       |
| 9. Miscellaneous including publicity and propaganda .. | 28 11 3      |
| 10. Rent of Office ..                                  | 45 16 8      |
| Total ..   | £ 1,287 10 0 |

The small towns are represented by Layou, Barrouallie and Chateaubelair on the Leeward, Calliaqua and Georgetown on the Windward coast, and the Harbour, the largest settlement in the island dependency of Bequia.

Up to the present there have been no definite or fixed appropriations for village sanitation. Villages and rural settlements have grown up higgledy-piggledy; no bye laws for roads or yard space; house and hutment abut on each other.

There is no doubt that Kingstown presents a very creditable appearance as a clean and well kept small West Indian centre of activity, an opinion that is generally expressed by visitors to the Colony.

## 2. Public Health.

### 1. General Remarks—

The sickness recorded in the districts by the various Medical Officers and in the Hospitals is shown in the following table with the corresponding figures for 1928.

|  | 1928.         | 1929.         |
|--|---------------|---------------|
| Attendance at Dispensaries &c., ...    | 26,218        | 27,240        |
| Colonial Hospital—In patients ...      | 958           | 934           |
| Out patients Casualties                | 221           | 239           |
| Casualty Hospitals (2)—In patients ... | 108           | 67            |
| Pauper, Lunatic and Leper Asylums ...  | 202           | 176           |
|  | <u>27,707</u> | <u>28,656</u> |

### Morbidity Returns. Mortality Returns.

|                 |       |     |
|-----------------|-------|-----|
| 1st Quarter ... | 6,901 | 248 |
| 2nd " ...       | 6,835 | 250 |
| 3rd " ...       | 8,194 | 236 |
| 4th " ...       | 5,310 | 169 |

The attendance at the district dispensaries shows a considerable increase each year.

The epidemics of chicken pox, measles, and whooping cough, reported in 1928 continued throughout the first half of the year 1929. They account for 1,130 attendances and 62 deaths.

The number of deaths exclusive of still-births was 903 as compared with 930 in 1928. Deaths of children under 1 year, 257, was slightly higher than the previous year; on the other hand deaths of children from 1 to 5 years, 233, was distinctly less.

In spite of the increased attendances at the dispensaries and the continuance of the epidemics of measles and whooping cough I would say that 1929 was by no means an unhealthy year. The general death rate is lower, and but for the epidemics among the children it is safe to assume that the infantile mortality would have shown a decrease.

*Diarrhoea in Children under 2 years of Age*—The district returns show 1,136 cases with 118 deaths. The greatest incidence was in the 3rd quarter. In persons over 2 years of age the number recorded is 183 with 27 deaths.

There were 145 deaths among persons between the ages of 70 and 100 years

### 2. Communicable Diseases.

#### *Mosquito or Insect Borne—Malaria.*

The returns from the districts show 723 cases with 8 deaths, Colonial Hospital returns register 20 admissions with 1 death. The general classification of deaths show 11 from this cause.



During the year there was less sickness from this condition than in the previous year.

There is more Malaria on the leeward than on the windward coast. The centres of infection are the lagoons and the streams or canals draining into those lagoons. At certain seasons of the year the lagoons do not discharge their water into the sea; the bank of sand on the sea coast forms a barrier or dam and the interlocked water and dribbling stream currents form ideal breeding places. If there is a settlement or village at the point of outlet then there is a flare of Malaria. With the advent of heavy storm water from excessive rainfall, the lagoon bursts through to the sea and the water course is scoured and drained.

The ideal centre on the leeward coast is at the settlement on the Buccament Bay.

During 1929 a well attended lantern lecture and demonstration on Malaria was given in the Cotton House at the Cane Grove Estate. The Canal of the Cane Grove Estate empties into the lagoon on the Buccament Bay. This canal was cleaned, the subsidiary drains cleared, a small lagoon at the mouth of the Buccament river was filled in and house to house quinine medication was carried out in the Bay settlement. The epidemic was soon controlled.

There does not appear to be any doubt that anopheline breeding places are to be found on the leeward coast especially near the lagoons. On the windward coast breeding pools have been found at Brighton and Mt. Greenan. As far as I know at present no breeding places have been found near the windward settlements which are more inland on this side than on the leeward coast.

In the neighbourhood of Kingstown the oiling of pools, gutters and ravine tracks has been carried out for the reduction of mosquito nuisance in general, especially at Edinboro, Murray Road, Richmond Hill, Sion Hill and Long Wall. These efforts are anti-mosquito and not anti-malarial. For the same object was there a campaign to get rid of the wild pines on the trees and fill in the holes in the trunks of trees growing around the Government House buildings.

The education of householders in the life history of the mosquito has been a special duty of the Sanitary Inspectors. *Stegomyia* bred in water barrels are a great source of trouble. Open barrels for storing drinking water are numerous in districts unprovided with pipe-borne supplies. It is at present impracticable to have these barrels screened against mosquitoes and provided with taps. Householders are asked to empty their barrels completely and scrub the sides and bottoms twice a week.

Within the limits of the town of Kingstown, on the bay front, 1,352 visits of inspection of boats and lighters were made. On 89 of these visits larvæ were found in the boats or lighters inspected.

#### *Infectious Diseases:—Enteric Fever.*

11 cases were notified during the year as compared with 10 cases in 1928. There were 2 deaths. 7 of the cases were treated in hospital with 1 death.

| Distribution.  | Cases. | Deaths. |
|----------------|--------|---------|
| Kingstown      | 3      | ...     |
| District No. 1 | 3      | ...     |
| " " 2 (South)  | 3      | ...     |
| " " 2 (North)  | ...    | ...     |
| " " 4          | 1      | 1       |
| " " 5          | ...    | ...     |
| Grenadines     | 1      | 1       |
| Totals         | 11     | 2       |
| 1st Quarter    | 1      | 1       |
| 2nd "          | 3      | ...     |
| 3rd "          | 5      | 1       |
| 4th "          | 2      | ...     |



Of the 3 cases reported from Barrouallie in District 2 (South), 2 were contacts of the 1st.

The case reported from the Grenadines was the Captain of a sailing craft. The source of infection appears to have been the island of Guadeloupe. The source of origin of the others could not be traced.

As soon as a case is notified it is removed if possible to the General or Casualty Hospital. The premises are disinfected and all possible contacts are inoculated.

Antityphoid Inoculations during 1929—

|                 |     |          |
|-----------------|-----|----------|
| Kingstown       | ... | 41       |
| District No. 1  | ... | 21       |
| „ No. 2 (South) | ... | 23       |
| „ „ 4           | ... | 4        |
|                 |     | <hr/> 89 |

TABLE.

INCIDENCE OF TYPHOID FEVER 1925-1929.

| Medical District.           | No. of Cases. |       |       |       |       | Total for 5 years. |
|-----------------------------|---------------|-------|-------|-------|-------|--------------------|
|                             | 1925.         | 1926. | 1927. | 1928. | 1929. |                    |
| No. 1 (including Kingstown) | 15            | 35    | 4     | 6     | 7     | 67                 |
| No. 2 (North)               | ...           | 1     | ...   | 1     | ...   | 2                  |
| No. 2 (South)               | 8             | 1     | 2     | 1     | 3     | 15                 |
| No. 3                       | 1             | 1     | 1     | 1     | ...   | 4                  |
| No. 4                       | 24            | 7     | 3     | ...   | 1     | 35                 |
| No. 5                       | 8             | 3     | 3     | 1     | ...   | 15                 |
| Total                       | 56            | 48    | 13    | 10    | 11    | 138                |

*Diphtheria*—1 case ending fatally. A little white male child aged 2 years, arrived from New York with his mother about December 18th, 1928. The mother and child lived with her parents at Sion Hill. The mother returned to New York in February 1929. The child took ill about March 20th. On March 31st it was recommended to hospital where it was seen by myself. The fauces were covered with an extensive membrane, and I considered the case moribund. A careful search failed to discover any other case, or even any one with a history of sore throat or nasal discharge. Disinfection of bedding and premises was carried out. No other case was discovered or reported during the year.

*Chicken Pox, Measles and Whooping Cough* continued to be epidemic during a greater part of the year. The Mortality registered from the above causes numbered 62. I have no doubt that the sequela have helped to increase the mortality of the children who have died under 5 years of age.

*Tuberculosis.* During the year there were 101 notifications of tuberculosis of all forms; 73 were specified as of pulmonary type. The total deaths from the disease during the year was 43, of which 37 were pulmonary.

A serious obstacle in the control of the disease no doubt results from the housing conditions prevailing among the poorer classes. Ventilation is not a factor in the construction of the labourer's cottage. Even the living room is reduced to a minimum cubic capacity. An occupant of a labourer's hut afflicted with pulmonary tuberculosis subjects the other occupants to direct persistent and mass infection.

Concurrent and terminal disinfection are carried out regularly by the Sanitary Staff of all cases notified as occurring in their districts.

*Yaws and Syphilis.* The number of injections given throughout the Colony was 7,258. The cost of material used was £467. 15. 9.

| Vital Statistics.   |     | 1928.  | 1929.  |
|---|-----|--------|--------|
| Estimated Population                                      | ... | 51,426 | 51,995 |
| Births (excluding still-births)                           | ... | 1,880  | 1,730  |
| Birth rate per 1,000                                      | ... | 36.56  | 33.27  |
| Still-births  | ... | 113    | 106    |
| Percentage of live to still-births                        | ... | 6.01   | 6.13   |
| Death rate per 1,000                                      | ... | 18.08  | 17.36  |
| Deaths of Children under 1 year<br>excluding still-births | ... | 251    | 257    |
| Mortality rate per 1,000 births                           | ... | 134    | 149    |

I am entirely responsible for the classification of the causes of death attached to this report. It will not be found to agree with the classification attached to the Registrar's Report. It shows the number and causes of deaths in each medical district and not according to centres of registration.

Though not claiming perfect accuracy, it enables me to estimate the occurrence of disease in each district; to recognise individual idiosyncrasies of Medical Officers and affords the opportunity to call attention to the prevalence of disease or the occurrence of a mortality at an age apparently in excess of the normal rate.

## CAUSES OF DEATH.

|   | 1 District. | 2 South. | 2 North. | 3 District. | 4 District. | 5 District. | Bequia and<br>St. Grenadines. | Totals. |
|---|-------------|----------|----------|-------------|-------------|-------------|-------------------------------|---------|
| <i>I. General Diseases.</i>                     |             |          |          |             |             |             |                               |         |
| 1. Enteric Fever                                | ...         | 1        |          |             | 1           |             |                               | 2       |
| 5. Malaria                                      | ...         | 4        | 1        |             |             | 1           | 1                             | 11      |
| 7. Measles                                      | ...         | 6        |          | 1           |             |             |                               | 7       |
| 9. Whooping Cough                               | ...         | 8        | 35       | 10          |             |             | 2                             | 55      |
| 10. Diphtheria                                  | ...         | 1        |          |             |             |             |                               | 1       |
| 11. Influenza                                   | ...         | 4        | 7        | 1           |             |             |                               | 12      |
| 25. Yaws  | ...         | 1        |          |             | 3           |             |                               | 4       |
| 29. Tetanus                                     | ...         | 1        | 2        | 7           | 6           | 1           |                               | 17      |
| 30. Mycoses                                     | ...         |          |          |             | 1           |             | 1                             | 2       |
| 31. Pulmonary Tuberculosis                      | ...         | 15       | 5        | 5           | 4           | 5           | 1                             | 37      |
| 33. Tuberculosis peritoneum                     | ...         | 3        |          |             |             |             | 2                             | 3       |
| 35. " Joints                                    | ...         |          | 1        |             |             |             |                               | 1       |
| 36. " —other organs                             | ...         |          |          | 1           |             |             |                               | 1       |
| 37. " Disseminated                              | ...         | 1        |          |             |             |             |                               | 1       |
| 38. Syphilis                                    | ...         | 12       | 8        | 2           | 7           | 2           | 3                             | 35      |
| 41. Purulent Infection                          | ...         |          |          | 1           | 1           | 1           | 1                             | 3       |
| <i>II. General Diseases not included above.</i> |             |          |          |             |             |             |                               |         |
| 44. Cancer Stomach &c.                          | ...         |          | 1        | 1           |             | 2           |                               | 4       |
| 45. " Intestines &c.                            | ...         | 2        |          | 1           |             |             |                               | 3       |
| 46. " Female Genitals                           | ...         | 2        |          | 1           | 2           | 1           |                               | 6       |
| 47. " Breast                                    | ...         |          |          |             |             |             | 1                             | 1       |
| 49. " Other unspecified Organs                  | ...         |          | 1        |             | 1           |             |                               | 2       |
| 50. Tumors not returned as Malignant            | ...         |          |          | 1           |             |             |                               | 1       |
| 53. Scurvy (Infantile)                          | ...         |          |          |             | 5           | 9           |                               | 14      |
| 56. Rickets                                     | ...         |          |          |             |             | 1           |                               | 1       |
| 57. Diabetes                                    | ...         |          | 1        |             |             |             |                               | 1       |
| 69. Other General Diseases                      | ...         |          |          | 2           |             |             |                               | 2       |
| <i>III. Diseases of the Nervous System.</i>     |             |          |          |             |             |             |                               |         |
| 70. Encephalitis                                | ...         | 1        |          |             |             |             |                               | 1       |
| 72. Tabes Dorsalis                              | ...         |          | 1        |             |             |             |                               | 1       |
| Carried forward                                 | ...         | 56       | 68       | 13          | 39          | 26          | 20                            | 229     |



## CAUSES OF DEATH.—Continued.

|   | 1 District. | 2 South. | 2 North. | 3 District. | 4 District. | 5 District. | Bequa and S. Grandines. | Totals. |
|---|-------------|----------|----------|-------------|-------------|-------------|-------------------------|---------|
| Brought forward   | 56          | 68       | 13       | 39          | 26          | 20          | 7                       | 229     |
| III. <i>Diseases of the Nervous System.</i> —Contd.         |             |          |          |             |             |             |                         |         |
| 74. Cerebral Hæmorrhage                                     | 6           | 1        | 1        | 2           | 2           | 3           | 1                       | 16      |
| 75. Paralysis of unstated origin                            | 1           | 2        | 1        |             |             |             | 1                       | 5       |
| 76. General Paralysis of Insane                             |             |          | 1        |             |             |             |                         | 1       |
| 77. Other forms of Insanity                                 | 1           |          |          |             |             |             |                         | 1       |
| 78. Epilepsy  | 1           |          |          |             |             |             |                         | 1       |
| 80. Infantile Convulsions under 5 years                     | 3           | 5        |          | 1           |             | 1           |                         | 10      |
| 83. Cerebral Softening                                      |             | 1        |          |             |             |             |                         | 1       |
| 84. Other Diseases of the Nervous System                    | 1           |          |          |             |             |             |                         | 1       |
| IV. <i>Diseases of the Circulatory System.</i>              |             |          |          |             |             |             |                         |         |
| 88. Acute Endocarditis                                      |             |          |          |             |             | 1           |                         | 1       |
| 89. Angina Pectoris   | 1           |          |          |             |             |             |                         | 1       |
| 90. Valvular Disease of the Heart                           | 20          | 3        |          | 2           | 8           | 5           |                         | 38      |
| 91. Diseases of the Arteries                                | 1           |          |          |             | 8           | 4           |                         | 13      |
| 92. Embolism and Thrombosis                                 | 1           |          |          |             |             |             |                         | 1       |
| 94. Diseases of the Lymphatic System                        |             |          | 1        |             |             |             |                         | 1       |
| 95. Hæmorrhage without stated cause                         |             |          |          |             |             | 2           |                         | 2       |
| V. <i>Diseases of the Respiratory System.</i>               |             |          |          |             |             |             |                         |         |
| 99. Bronchitis  | 12          | 19       | 1        | 9           | 23          | 2           |                         | 66      |
| 100. Broncho Pneumonia                                      | 3           | 3        | 5        | 1           |             | 1           |                         | 13      |
| 101. Pneumonia, lobar &c.                                   |             |          |          | 1           | 3           |             |                         | 4       |
| 104. Gangrene of Lung                                       | 1           |          |          |             |             |             |                         | 1       |
| VI. <i>Diseases of the Digestive System.</i>                |             |          |          |             |             |             |                         |         |
| 111. Ulcer of Stomach                                       |             |          |          |             | 1           |             |                         | 1       |
| 112. Other diseases of the Stomach                          |             | 1        |          | 1           |             |             |                         | 2       |
| 114. Diarrhœa under 2 years                                 | 16          | 28       | 7        | 33          | 22          | 10          | 2                       | 118     |
| 114. „ over 2 years   | 6           | 4        | 1        | 6           | 8           | 2           |                         | 27      |
| 115. Ankylostomiasis  | 7           |          |          | 3           |             |             |                         | 10      |
| 116. Ascariasis   | 2           | 6        | 1        | 12          | 24          | 8           | 1                       | 54      |
| 118. Hernia-Intestinal Obstruction                          | 2           |          |          |             |             | 2           |                         | 4       |
| 126. Peritonitis without stated cause                       | 1           |          |          |             |             |             |                         | 1       |
| VII. <i>Non Venereal Diseases of Genito Urinary System.</i> |             |          |          |             |             |             |                         |         |
| 128. Acute Nephritis  | 6           | 5        | 3        | 9           | 9           | 1           |                         | 33      |
| 129. Chronic Nephritis                                      | 6           |          |          | 5           | 2           | 4           | 1                       | 18      |
| 131. Other Diseases of the Kidney                           | 1           |          |          |             |             |             |                         | 1       |
| 123. Diseases of the Bladder                                | 1           | 1        |          |             |             |             |                         | 2       |
| 134. „ „ Urethra &c.  | 3           |          |          |             |             |             |                         | 3       |
| VIII. <i>The Puerperal State.</i>                           |             |          |          |             |             |             |                         |         |
| 143. Accidents of Pregnancy                                 |             |          |          | 1           |             |             |                         | 1       |
| 144. Puerperal Hæmorrhage                                   | 1           |          |          |             |             |             |                         | 1       |
| 145. Other Accidents of Child-birth                         | 1           |          |          |             |             |             |                         | 1       |
| 146. Puerperal Sepsis                                       |             |          | 2        |             | 2           |             |                         | 4       |
| 148. „ Albuminuria  | 1           |          |          |             |             |             |                         | 1       |
| IX. <i>Diseases of the Skin &amp; Cellular Tissue.</i>      |             |          |          |             |             |             |                         |         |
| 151. Gangrene   | 3           |          | 1        | 2           |             |             |                         | 6       |
| 153. Cellulitis-acute abscess                               | 1           |          |          |             |             |             |                         | 1       |
| Carried forward   | 166         | 147      | 38       | 127         | 138         | 66          | 13                      | 695     |



## CAUSES OF DEATH.—Continued.

|   | 1 District. | 2 South. | 2 North. | 3 District. | 4 District. | 5 District. | Bequia and S. Grenadines. | Totals. |
|---|-------------|----------|----------|-------------|-------------|-------------|---------------------------|---------|
| Brought forward                               | 166         | 147      | 38       | 127         | 138         | 66          | 13                        | 695     |
| <b>XI. Congenital Malformations.</b>          |             |          |          |             |             |             |                           |         |
| 159. Congenital Malformation                  |             |          |          |             | 2           |             |                           | 2       |
| <b>XII. Diseases of Early Infancy.</b>        |             |          |          |             |             |             |                           |         |
| 160. Congenital Debility &c.                  | 7           | 10       | 2        | 14          | 9           | 1           | 7                         | 50      |
| 161. Premature Birth &c.                      | 4           |          | 1        | 2           | 1           |             | 3                         | 11      |
| 162. Other Diseases peculiar to early infancy |             |          |          | 1           |             | 1           |                           | 2       |
| <b>XIII. Old Age.</b>                         |             |          |          |             |             |             |                           |         |
| 164. Old Age                                  | 25          | 23       | 7        | 21          | 7           | 2           | 11                        | 96      |
| <b>XIV. External Causes.</b>                  |             |          |          |             |             |             |                           |         |
| 175. Food Poisoning—Cassava                   |             |          |          |             | 1           |             |                           | 1       |
| 178. Burns by fire                            |             |          |          | 2           | 1           |             |                           | 3       |
| 180. Accidental Suffocation                   |             |          |          | 1           |             |             |                           | 1       |
| 182. " Drowning                               | 1           | 1        |          | 1           | 1           |             | 2                         | 6       |
| 185. " injury by fall                         |             |          | 1        |             | 1           |             |                           | 2       |
| <b>XV. Ill Defined Diseases.</b>              |             |          |          |             |             |             |                           |         |
| 205. Cause of death unstated or ill defined   | 10          | 1        | 8        | 7           | 3           |             | 5                         | 34      |
| <b>XVI. Still Births</b>                      | 37          | 6        | 7        | 19          | 16          | 17          | 4                         | 106     |
|   | 250         | 188      | 64       | 195         | 180         | 87          | 45                        | 1,009   |

## GENERAL MEASURES OF SANITATION.

*Sewage Disposal.* The provision of latrines on premises where previously none existed was carried a step further by the erection of 428 privies on private premises and 5 deep pit-latrines on estates. Nearly all of the larger estates have now provided privy accommodation for their resident labourers.

The records from the various Sanitary Inspectors show a total of 2,379 latrines erected since the reorganisation of the Sanitary Department in 1927. This number takes into account only those latrines erected as a result of notices and verbal orders given by the Sanitary Inspectors. As many householders put in the necessary accommodation without being ordered to do so, the actual number of latrines erected during the period 1927-1929 is far in excess of the figure quoted above.

The maintenance and improvement of existing privies form one of the most important duties of the Sanitary Staff. Experience proves that in the absence of regular supervision, the latrines are allowed to fall into disrepair.

At the end of 1929 there were 36 septic tanks in the Colony. All were functioning satisfactorily. The householders in and around Kingstown whose tanks are dependent on the Town water supply continue to be inconvenienced by an intermittent supply of water during the dry season. The promised increase has again failed to materialise.

*Scavenging and Refuse Disposal.* The scavenging services of Kingstown and the small towns were carried out without interruption. 3,435 cart loads of garbage amounting to 4,153 cubic yards were removed from Kingstown; from the small towns 8,705 cart loads totalling 4,768 cubic yards.

The installation of an incinerator for Kingstown could not be carried out during the year. A site has, however, been purchased and the plant ordered.

Permission was granted to extend the dumping area on the Constantine lands. The reclamation of this boggy area in the immediate neighbourhood of the town boundary has been a definite sanitary improvement. There was no fly nuisance from the dumping ground.

*Drainage.* As the result of notices and verbal directions, 13,675 feet of drain were cleared and 112 feet of new drains constructed. At Georgetown, the storm water from the abutting Grand Sable Estate, frequently flooded the town. The Government has come to the rescue with an appropriation from General Revenue of £250 as a first instalment for a large concrete surface drain, a portion of which has been completed.

At Calliaqua protection from flooding has apparently been effected by deepening the bed and straightening the banks of the offending water course. At any rate there has been no overflowing of this small town from this source during the year.

*Water Supplies.* Comment has already been made on the intermittent supply delivered in Kingstown during the dry season. At times the supply is only available from 6 a.m. to 9 a.m. and 3 p.m. to 6 p.m. Apart from the discomfort to the householders it becomes increasingly difficult to scrub and flush out drains.

On the 3rd of December the water supply in Kingstown failed. This condition continued during the next day. It appears that the filter beds had never been cleaned for 19 or 20 years. The failure of the supply resulted from the absolute choking of the filter bed in use.

The Troumaca supply was undertaken and successfully carried out by the Public Works Department. The necessity for this supply was a few years ago strongly advocated by Dr. F. T. Auden while he acted as Medical Officer in this district. The water is piped from a point in the hills about  $4\frac{1}{2}$  miles away, filtered, stored and delivered to the peasantry at Troumaca and Rosehall. Previously the inhabitants of these Land Settlement areas, now thriving centres on the Leeward coast, had to tramp a mile or more for a bucket of water.

At Georgetown there is a reservoir and a pipe-borne supply. Gradually this became intermittent. A long time seemed to elapse before investigation was undertaken and efforts made to clean out the choked pipes. There has been no further trouble.

The Dalzell spring, which supplies the village settlements of Upper Stubbs and Victoria, was protected from contamination by enclosure in 2 separate concrete chambers. It had been hoped that the supply would have been collected in a reservoir and piped down to the larger settlement of Lower Stubbs.

The supply laid down some years ago for Calliaqua, similarly that at Layou, require in the near future careful investigation for their improvement.

*Offensive Trades.* Nothing of importance worthy of comment was observed during the year.

*Clearance of bush and undergrowth.* In this tropical island with its present peasant population there is continual warfare against over and undergrowth to let air and sunshine into the yards and houses.

*Sanitary Inspections.* 42,296 house inspections were made; 694 written notices were served; 10,191 verbal orders given. Altogether 10,885 nuisances were abated as a result of notices and orders. The details of this work are best appreciated by an examination of Tables.

*Deratization.* 1,670 rats are returned as trapped or poisoned.

### 3. School Hygiene.

There has been considerable improvement in the appearance of the school buildings. The internal surfaces of many have been painted; educational pictures of the Empire Marketing Board have been hung up and help to add an air of brightness to the class rooms; additional furniture—desks, benches and blackboards



have been supplied; hat racks have been put in on which to hang the caps and hats. Wherever there is available space around the school buildings it is converted into play grounds or garden plots for the children. The immediate result of these general improvements has been increased attendance. If this is maintained the buildings will have to be enlarged to obviate overcrowding, a feature at present noticeable in some of the schools.

In keeping with the provisions of the Public Health Ordinance efforts are being made to provide separate latrine accommodation for the teaching staff and the pupils of each sex. There are so many schools that require the necessary accommodation that the work can only be undertaken gradually. In the past, denominational school buildings have been established at localities with so little yard space that apart from a possible playground there is not even room for latrine accommodation. However progress is being made. At Marriagua a pail closet was erected for the teaching staff. The contents are emptied into the "Kentucky" latrine used by the pupils. At Stubbs there was reconstruction. The unhygienic "counter" seats were replaced by "box" seats adapted for the teaching staff, infants and bigger pupils. The contents are emptied daily in a well built and sealed disposal pit on the grounds near by. Hitherto the scavenger was supposed to tramp  $\frac{3}{4}$  mile to empty the contents into the sea. This of course was never done; the contents were being emptied in the nearest gully or stream.

Similar reconstruction was carried out at the Buccament School latrine. Minor repairs were effected at other schools. Altogether a sum of £60 was expended on Public and School latrines in the Colony during the year.

The drinking water for the pupils must receive some attention. The children cannot be expected to run out of school for 10 to 30 minutes to look for a drink, or have to bring their supply in bottles.

The District Medical Officers paid 126 quarterly visits of inspection to the Primary Schools. The scope of these visits includes a report on the general health of the pupils and the sanitary condition of the buildings, yards and latrines. 14,368 pupils were inspected of whom 342 were referred for medical treatment. Of those referred 84 were afflicted with Yaws, 114 with ulcers and 97 with other forms of skin disease. Measures for extending the scope of these inspections and to secure if possible better results are under consideration.

#### IV. Labour Conditions.

There is no sign of any abatement of the emigration to the oil refineries. The Colony has benefited by the amount of money remitted by the emigrants to their families.

There has been a marked falling off of the emigration to Cuba and San Domingo, perhaps associated with the depression in the Sugar Market.

#### V. Housing and Town Planning.

There has been no change in the condition set out in the previous reports. Under the proposed building regulations which are to be submitted to the Legislature everyone who intends to erect a new building will be required to submit an application in writing for the approval of the Sanitary Authority before the work is commenced.

#### VI. Food in relation to Health Disease.

5,072 visits of inspection were made to various establishments engaged in the preparation and sale of food.

Control measures include the registration of all places where food is prepared or sold to the public, the medical examination half-yearly of all persons engaged in the preparation and sale of food, and the licensing of bakeries and aerated water factories. 916 medical certificates were issued under the food regulations.



*Meat.* At the Kingstown Abattoir there were slaughtered 577 cattle, 67 calves, 119 sheep, 61 goats, and 331 pigs, a total of 1,929 animals. No animal was condemned as unfit for slaughter. Meat inspection is conducted by the Market Clerk who refers any doubtful matter to the Town Warden. If the Warden is not satisfied he in turn calls in the Chief Medical Officer whose opinion is final.

*Milk.* Regulations controlling the standard and purity of the milk offered for sale have not yet received legislative sanction. It is anticipated that they will come into force early in 1930. The owner of the Ottley Hall Dairy is the contractor for the supply to the Government Institutions. He has continued to make improvements to his plant and fittings as well as the herd. In addition to milk he supplies butter and cream for sale.

*Market.* The Kingstown market is partly covered and partly open. The covered buildings include the fish and butchers' stalls and 2 sheds where sundry articles are sold. Grounds provisions, fruit, &c., are placed on the ground in the open.

There is a proposal before the Kingstown Board to improve its market and incidentally the condition under which most of the articles are exposed for sale.

#### B. MEASURES TAKEN TO SPREAD THE KNOWLEDGE OF HYGIENE AND SANITATION.

With the help of a portable magic lantern outfit and suitable slides lectures and demonstrations on Tuberculosis, Hookworm disease, Malaria and Milk were given in Kingstown, Calliaqua, Georgetown, Chateaubelair, Troumaca, Argyle, New Ground and Cane Grove. The attendances aggregated about 3,000. Valuable assistance was given us by District Medical Officers, Ministers of Religion, Sanitary Inspectors and School masters. The general public showed its appreciation by the numbers who attended each lecture.

#### C. TRAINING OF SANITARY PERSONNEL.

The annual course of training for persons desirous of qualifying as Sanitary Inspectors was held. 8 candidates took the course, two of whom passed the qualifying examination.

The fees collected amounted to £10. 3. 10.

The Sanitary Inspectors' library was started in 1927. Every year additions are made to it. Part of the fees collected are devoted to this purpose. It now contains 26 volumes.

*Prosecutions.* For various breaches of the Public Health Law, 58 cases were laid and 50 convictions secured. In 1928 there were 83 convictions. The fines amounted to £11 12. 6.

I desire to express my thanks to the Chief Sanitary Inspector, Mr. Chapman, for the copious notes and tables prepared for me for this section of the report.

**TABLE 1.**  
**SANITARY WORK.**  
Inspections of Premises &c., by Sanitary Inspectors.

| Months.   | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  | Total.             |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
| Visits to dwellings and other premises ...        | 2,415 | 2,772 | 3,264 | 3,308 | 3,364 | 3,739 | 3,725 | 3,457 | 4,000 | 4,026 | 3,739 | 4,487 | 42,296             |
| No. of shops, stores, bake-houses &c., inspected. | Jan.  | Feb.  | Mar.  | Apr.  | May   | June  | July  | Aug.  | Sept. | Oct.  | Nov.  | Dec.  | Average per month. |
| Retail shops ...                                  | 103   | 91    | 96    | 113   | 82    | 100   | 118   | 136   | 129   | 141   | 171   | 178   | 122                |
| Bakehouses ...                                    | 34    | 36    | 37    | 45    | 33    | 37    | 36    | 35    | 48    | 50    | 44    | 51    | 41                 |
| Markets ...                                       | 17    | 12    | 15    | 25    | 19    | 20    | 14    | 16    | 23    | 20    | 28    | 29    | 20                 |
| Fish trays ...                                    | 28    | 39    | 65    | 111   | 93    | 108   | 69    | 73    | 108   | 114   | 110   | 87    | 84                 |
| Cake ..   | 75    | 62    | 92    | 105   | 73    | 92    | 70    | 87    | 134   | 119   | 93    | 115   | 93                 |
| Bread shops ...                                   | ...   | ...   | 9     | 19    | 13    | 14    | 15    | 21    | 14    | 15    | 17    | 18    | 15                 |
| Cook ..   | ...   | ...   | 11    | 17    | 15    | 11    | 9     | 11    | 11    | 16    | 17    | 16    | 13                 |
| Parlours ...                                      | ...   | ...   | ...   | 34    | 26    | 25    | 21    | 24    | 24    | 21    | 24    | 19    | 24                 |
| Fry shops ...                                     | ...   | ...   | ...   | 17    | 12    | 10    | 8     | 10    | 24    | 14    | 15    | 18    | 14                 |
| Hotels ...  | ...   | ...   | ...   | 4     | 3     | 14    | 3     | 3     | 4     | 4     | 4     | 5     | 5                  |
| Public latrines ...                               | 24    | 31    | 36    | 32    | 19    | 27    | 28    | 31    | 32    | 35    | 39    | 42    | 31                 |
| Estate ..   | ...   | ...   | ...   | 9     | 21    | 24    | 43    | 32    | 41    | 28    | 17    | 32    | 27                 |
| Aerated factories ...                             | 12    | 7     | 10    | 10    | 7     | 9     | 10    | 13    | 6     | 11    | 12    | 10    | 10                 |
| Other ..  | 34    | 12    | 22    | 18    | 14    | 15    | 16    | 13    | 15    | 8     | 7     | 18    | 16                 |
| Tanneries ...                                     | 3     | 3     | 3     | 3     | 4     | 5     | 4     | 4     | 4     | 3     | 4     | 6     | 4                  |
| Schools ...                                       | 14    | 10    | 9     | 19    | 16    | 18    | 27    | 23    | 19    | 24    | 26    | 15    | 18                 |
| Dumping grounds ...                               | 49    | 37    | 40    | 41    | 38    | 35    | 34    | 32    | 8     | 41    | 46    | 56    | 38                 |
| Cemeteries ...                                    | 12    | 6     | 16    | 12    | 13    | 14    | 14    | 16    | 20    | 13    | 16    | 17    | 14                 |
| Church yards ...                                  | ...   | ...   | ...   | 10    | 13    | 13    | 16    | 21    | 11    | 15    | 15    | 17    | 14                 |
| Slaughteries ...                                  | 6     | 1     | 6     | 21    | 13    | 11    | 13    | 11    | 21    | 20    | 21    | 24    | 14                 |
| Dairies and cowsheds ...                          | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1                  |
| Boats ...   | ...   | ...   | 19    | 77    | 85    | 129   | 153   | 143   | 167   | 177   | 194   | 208   | 135                |
| Garages ...                                       | ...   | ...   | ...   | 12    | 15    | 17    | 13    | 12    | 16    | 13    | 17    | 16    | 21                 |
| Milk vendors' utensils ...                        | ...   | ...   | ...   | 94    | 89    | 88    | 50    | 44    | 95    | 100   | 71    | 52    | 76                 |

**TABLE 2.**  
Results of Notices and Verbal Directions.

|                                     |           |  |     |
|-------------------------------------|-----------|--|-----|
| Yards filled in ...                 | 31        | Retail shops cobwebbed ...                     | 207 |
| " cleaned ...                       | 6,583     | Parlours ..                                    | 27  |
| " paved ...                         | 20        | Bakehouses ..                                  | 82  |
| Drains cleaned ...                  | 13,675ft. | Provision stores ..                            | 2   |
| Concrete drains constructed ...     | 74        | Cook shops ..                                  | 17  |
| " .. repaired ...                   | 40        | Bakehouses scrubbed ...                        | 29  |
| Earthen .. constructed ...          | 38        | Retail shops ..                                | 75  |
| " .. repaired ...                   | 46        | Parlours ..                                    | 10  |
| Privy-cesspits built ...            | 352       | Cook shops ..                                  | 13  |
| " .. repaired ...                   | 171       | Provision stores ..                            | 2   |
| Pail closets built ...              | 76        | Dustbins provided ...                          | 27  |
| " .. repaired ...                   | 74        | Concrete floor of shops repaired ...           | 4   |
| Concrete catch-pit built ...        | 1         | Public latrines cleansed ...                   | 97  |
| Accumulations of manure removed ... | 447       | Eaves gutters repaired ...                     | 27  |
| Trees cut down ...                  | 76        | Cesspits deodorised ...                        | 97  |
| " trimmed ...                       | 868       | " filled in ...                                | 75  |
| Premises cleared of bush ...        | 361       | Cistern screened ...                           | 1   |
| Dwelling houses repaired ...        | 13        | Hogswamps cleansed ...                         | 418 |
| Privies limewashed ...              | 6         | Boats emptied of stagnant water ...            | 240 |
| Bakehouses ..                       | 13        | Cake trays made flyproof ...                   | 56  |
| Retail shops ..                     | 22        | Breadbins ..                                   | 6   |
| Cook ..                             | 4         | Concrete floor of bakehouses re-<br>paired ... | 11  |
| Fry ..                              | 2         |  |     |



TABLE 3.

| Rats caught by Dept. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Total. |
|----------------------|------|------|------|------|-----|------|------|------|-------|------|------|------|--------|
| (a) Poisoned         | ...  | ...  | 22   | 73   | 41  | 37   | 7    | ...  | 30    | 44   | ...  | ...  | 254    |
| (b) Trapped          | ...  | 98   | 130  | 180  | 161 | 86   | 74   | 66   | 122   | 115  | 88   | 98   | 1,303  |
| (c) Mice             | ...  | ...  | 1    | 7    | 1   | 14   | 4    | ...  | ...   | 9    | 8    | 22   | 113    |
| Total                | ...  | 98   | 153  | 260  | 203 | 137  | 85   | 66   | 152   | 168  | 96   | 120  | 1,670  |

TABLE 4.

Registration of persons engaged in the preparation and sale of Food.

| Sanitary District. | Shop<br>Clerks. | Milk<br>Vendors. | Dairy<br>Men. | Bread<br>Vendors. | Parlour<br>Keepers. | Hucksters. | Bakers. | Aerated<br>Water<br>Makers. | Cook Shop<br>Employ-<br>ees. | Fry Shop<br>Employ-<br>ees. | Total. |
|--------------------|-----------------|------------------|---------------|-------------------|---------------------|------------|---------|-----------------------------|------------------------------|-----------------------------|--------|
| Kingstown          | 116             | 119              | ...           | 17                | 53                  | 69         | 40      | 8                           | 12                           | 3                           | 437    |
| No. 1              | 16              | ...              | 24            | ...               | 13                  | 8          | 6       | 5                           | ...                          | ...                         | 72     |
| No. 2 (North)      | 19              | 5                | 5             | ...               | ...                 | 19         | 7       | ...                         | ...                          | ...                         | 55     |
| No. 2 (South)      | 42              | 72               | 72            | ...               | 3                   | 54         | 26      | ...                         | ...                          | 3                           | 272    |
| No. 3              | 27              | ...              | 65            | ...               | ...                 | 5          | 5       | ...                         | ...                          | ...                         | 102    |
| No. 4              | 43              | 5                | 5             | ...               | ...                 | 24         | 12      | 5                           | ...                          | ...                         | 104    |
| No. 5              | 46              | 15               | 15            | ...               | 2                   | 17         | 23      | 3                           | ...                          | ...                         | 121    |
| Bequia             | 15              | ...              | ...           | ...               | ...                 | 13         | 3       | ...                         | ...                          | ...                         | 31     |
| Total              | 324             | 216              | 186           | 17                | 71                  | 219        | 122     | 21                          | 12                           | 6                           | 1,194  |

TABLE 5.

Medical examination of persons engaged in the preparation and sale of Food.

| Month.                  | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Totals. |
|-------------------------|------|------|------|------|-----|------|------|------|-------|------|------|------|---------|
| Shop Clerks             | 13   | 4    | 35   | 38   | 28  | 21   | 53   | 36   | 46    | 26   | 18   | 12   | 330     |
| Milk Vendors            | 12   | 10   | 6    | 9    | 4   | 19   | 64   | 7    | 13    | 10   | 8    | 4    | 166     |
| Dairymen                | 2    | ...  | 1    | 6    | 3   | 1    | 7    | 3    | 1     | 2    | 1    | 2    | 29      |
| Bread Vendors           | ...  | ...  | 4    | 5    | ... | 3    | 2    | 6    | 1     | 2    | 2    | 1    | 26      |
| Parlour Keepers         | ...  | 7    | ...  | 16   | 3   | 2    | 9    | 3    | 12    | 3    | ...  | ...  | 55      |
| Hucksters               | 16   | 30   | 19   | 14   | 11  | 11   | 26   | 14   | 6     | 9    | 1    | 3    | 160     |
| Bakers                  | 8    | 6    | 6    | 18   | 6   | 7    | 15   | 13   | 2     | 24   | 1    | ...  | 106     |
| Aerated Water Makers... | ...  | 2    | 1    | 5    | 1   | 5    | 2    | ...  | 4     | 1    | ...  | ...  | 21      |
| Cook Shop Employees...  | ...  | 3    | 6    | 2    | ... | ...  | 2    | 3    | 3     | ...  | 2    | ...  | 21      |
| Fry " "                 | ...  | 2    | ...  | ...  | ... | ...  | ...  | ...  | ...   | ...  | ...  | ...  | 2       |
| Totals                  | 51   | 64   | 78   | 113  | 56  | 69   | 180  | 85   | 88    | 77   | 33   | 22   | 916     |

TABLE 6.

Register of Establishments engaged in the preparation and sale of Food.

| Sanitary District | Description of Establishments. |                   |           |           |          |            |            |             |         | Totals. |
|-------------------|--------------------------------|-------------------|-----------|-----------|----------|------------|------------|-------------|---------|---------|
|                   | Aerated Water Factories.       | Provisions Shops. | Parlours. | Bakeries. | Dairies. | Groceries. | Fry Shops. | Cook Shops. | Hotels. |         |
| Kingstown         | 3                              | 44                | 53        | 7         | ...      | 4          | 4          | 7           | 4       | 126     |
| No. 1             | 2                              | 12                | 3         | 3         | 1        | ...        | ...        | ...         | ...     | 21      |
| No. 2 (North)     | ...                            | 19                | ...       | 7         | ...      | ...        | ...        | ...         | ...     | 26      |
| No. 2 (South)     | ...                            | ...               | 3         | 6         | ...      | ...        | 3          | ...         | ...     | 12      |
| No. 3             | ...                            | 22                | ...       | 5         | ...      | ...        | ...        | ...         | ...     | 27      |
| No. 4             | 4                              | 33                | ...       | 7         | ...      | ...        | ...        | ...         | ...     | 44      |
| No. 5             | 3                              | 31                | 2         | 11        | ...      | 3          | ...        | ...         | ...     | 50      |
| Bequia            | ...                            | ...               | ...       | 3         | 1        | ...        | ...        | ...         | ...     | 4       |
| Totals            | 12                             | 161               | 61        | 49        | 2        | 7          | 7          | 7           | 4       | 310     |

TABLE 7.

PRIVY ACCOMMODATION ON ESTATES.

Results of notices and verbal directions.

| Sanitary District. | No. of Estates. | Privy accommodation provided 1927. |        | Privy accommodation provided 1928. |        | Privy accommodation provided 1929. |        | Total accommodation, 1927, 1928 and 1929. |        |
|--------------------|-----------------|------------------------------------|--------|------------------------------------|--------|------------------------------------|--------|---|--------|
|                    |                 | Labourers.                         | Staff. | Labourers.                         | Staff. | Labourers.                         | Staff. | Labourers.                                | Staff. |
| No. 1              | 5               | 115                                | ...    | ...                                | ...    | ...                                | ...    | 115                                       | ...    |
| No. 2 (North)      | 4               | 75                                 | 6      | ...                                | ...    | ...                                | ...    | 75  | 6      |
| No. 2 (South)      | 12              | 135                                | 16     | 240                                | 4      | ...                                | ...    | 375                                       | 20     |
| No. 3              | 26              | 375                                | 4      | 165                                | 4      | 165                                | ...    | 705                                       | 8      |
| No. 4              | 19              | 368                                | 15     | 570                                | 22     | 30                                 | ...    | 968                                       | 37     |
| No. 5              | 8               | 57                                 | 34     | 225                                | 3      | 120                                | ...    | 402                                       | 37     |
| Bequia             | 4               | ...                                | ...    | 30                                 | 2      | 30                                 | ...    | 60  | 2      |
| Total              | 78              | 1,125                              | 75     | 1,230                              | 35     | 345                                | ...    | 2,700                                     | 110    |

TABLE 8.

PRIVY ACCOMMODATION ON PREMISES OTHER THAN ESTATES.

Results of notices and verbal directions.

| Sanitary District. | Types of Privies constructed 1927. |               |               | Types of Privies constructed 1928. |               |               | Types of Privies constructed 1929. |               |               | Privies of all types constructed 1927, 1928 and 1929. |
|--------------------|------------------------------------|---------------|---------------|------------------------------------|---------------|---------------|------------------------------------|---------------|---------------|---|
|                    | Privy Cess-pits.                   | Pail Closets. | Septic Tanks. | Privy Cess-pits.                   | Pail Closets. | Septic Tanks. | Privy Cess-pits.                   | Pail Closets. | Septic Tanks. |   |
| Kingstown          | ...                                | ...           | ...           | ...                                | 83            | 4             | ...                                | 38            | 3             | 128   |
| No. 1              | 61                                 | ...           | 2             | 12                                 | 1             | ...           | 31                                 | ...           | 2             | 109   |
| No. 2 (North)      | 120                                | 6             | 1             | 106                                | 2             | ...           | 19                                 | 28            | ...           | 282   |
| No. 2 (South)      | 64                                 | 18            | ...           | 24                                 | 44            | ...           | 52                                 | 12            | ...           | 214   |
| No. 3              | 62                                 | ...           | ...           | 82                                 | 1             | ...           | 30                                 | 1             | 2             | 178   |
| No. 4              | 311                                | 1             | ...           | 578                                | 1             | ...           | 150                                | 2             | ...           | 1,043   |
| No. 5              | 100                                | 7             | 1             | 6                                  | ...           | ...           | 30                                 | 2             | ...           | 146   |
| Bequia             | ...                                | ...           | ...           | 114                                | 139           | ...           | 17                                 | 9             | ...           | 279   |
| Total              | 718                                | 32            | 4             | 922                                | 271           | 4             | 329                                | 92            | 7             | 2,379   |



TABLE 9.

Scavenging and cleansing of Town.

| Name of Town.     | Cart loads of garbage removed. |       |      |      |     |      |       |       |       |       |      |       | Total<br>No. of<br>loads. | No. of<br>Cubic<br>yards. |
|-------------------|--------------------------------|-------|------|------|-----|------|-------|-------|-------|-------|------|-------|---------------------------|---------------------------|
|                   | Jan.                           | Feb.  | Mar. | Apr. | May | June | July  | Aug.  | Sept. | Oct.  | Nov. | Dec.  |                           |                           |
| Kingstown ...     | 337                            | 263   | 288  | 281  | 251 | 262  | 258   | 280   | 283   | 292   | 307  | 333   | 3,435                     | 4,153                     |
| Georgetown ...    | 322                            | 279   | 259  | 219  | 259 | 226  | 299   | 265   | 270   | 289   | 229  | 258   | 3,174                     | 2,057                     |
| Barronallie ...   | 237                            | 136   | 110  | 132  | 132 | 102  | 150   | 152   | 125   | 129   | 136  | 126   | 1,667                     | 833                       |
| Layou ...         | 156                            | 165   | 100  | 102  | 144 | 99   | 132   | 125   | 136   | 126   | 140  | 184   | 1,609                     | 805                       |
| Calliaqua ...     | 148                            | 148   | 114  | 128  | 60  | 88   | 148   | 114   | 147   | 116   | 107  | 130   | 1,448                     | 724                       |
| Chateaubelair ... | 75                             | 64    | 74   | 61   | 55  | 71   | 72    | 64    | 68    | 62    | 60   | 79    | 805                       | 349                       |
| Total ...         | 1,275                          | 1,055 | 945  | 923  | 901 | 848  | 1,059 | 1,000 | 1,029 | 1,014 | 979  | 1,110 | 12,138                    | 8,921                     |

TABLE 10.

Prosecutions.

Cases determined and penalties imposed.

| Offences.  | No. of<br>Cases. | No. of<br>Convic-<br>tions. | Fines.<br>£ s. d. | Costs.<br>£ s. d. | Total.<br>£ s. d. | Remarks.             |
|--|------------------|-----------------------------|-------------------|-------------------|-------------------|----------------------|
| Failing to comply with notices ...                     | 36               | 32                          | 6 6 0             | ... ..            | 6 6 0             | 4 cases<br>withdrawn |
| Having human excreta on premises ...                   | 8                | 4                           | 1 10 0            | ... ..            | 1 10 0            | " "                  |
| Erecting dwelling house without<br>privy ...           | 3                | 3                           | ... ..            | 2 6               | 2 6               |                      |
| Refusing to disclose name of owners<br>of premises ... | 1                | 1                           | 10 0              | ... ..            | 10 0              |                      |
| Depositing rubbish on streets ...                      | 5                | 5                           | 2 0 0             | 1 6               | 2 1 6             |                      |
| Failing to take out Food Vendors<br>certificates ...   | 4                | 4                           | 18 0              | ... ..            | 18 0              |                      |
| Selling cakes in box not protected<br>from flies ...   | 1                | 1                           | 2 6               | 2 0               | 4 6               |                      |
|  | 58               | 50                          | 11 6 6            | 6 0               | 11 12 6           |                      |

## IV. Port Health Work.

a. Places under Quarantine on January 1st, 1929 :—

|                 |   |              |
|-----------------|---|--------------|
| Cuba            | - | Small Pox    |
| Haiti           | - | " "          |
| Colon           | - | " "          |
| St. Martin's    | - | " "          |
| St. Bartholomew | - | " "          |
| Florida—Tampa   | - | " "          |
| Guatemala       | - | " "          |
| Venezuela       | - | " "          |
| Columbia        | - | " "          |
| Brazil          | - | Yellow fever |

b. Places quarantined during the year 1929 :—

|           |   |                         |              |
|-----------|---|-------------------------|--------------|
| January   | - | Brazil—Para and Manaos  | Yellow Fever |
| March     | - | Columbia—Puerto Colombo | Small Pox    |
|           | - | Brazil—Rio Janeiro      | Yellow Fever |
| July      | - | Columbia                | " "          |
| August    | - | Jamaica                 | Alastrim     |
| September | - | Isthmian Zone—Panama    | Small Pox    |

## c. Places from which Quarantine was raised during 1929 :—

|           |   |          |   |   |              |
|-----------|---|----------|---|---|--------------|
| February  | - | Jamaica  | - | - | Alastrim     |
| September | - | Cuba     | - | - | Small Pox    |
| November  | - | Columbia | - | - | Yellow Fever |
| December  | - | Jamaica  | - | - | Alastrim     |
|           |   | Panama   | - | - | Small Pox    |

## d. Places under Quarantine at December 31st, 1929 :—

|                          |   |              |
|--------------------------|---|--------------|
| Haiti                    | - | Small Pox    |
| St. Martin's             | - | " "          |
| St. Bartholomew          | - | " "          |
| Florida—Tampa            | - | " "          |
| Guatemala                | - | " "          |
| Venezuela                | - | " "          |
| Columbia—Puerto Colombo  | - | " "          |
| Brazil—Rio, Para, Manaus | - | Yellow Fever |

## e. Port of Kingstown—Total arrivals, 1929 - 4,461

" " " " departures " - 4,760

(f) In May, S.S. Baracon, brought back from Cuba 448 emigrants. They were landed under surveillance.

In June, four passengers were landed under surveillance for Yellow Fever from Brazil, *via* Barbados.

In July, three passengers from Brazil were similarly treated.

## V. Maternity and Child Welfare.

*Colonial Hospital Returns—Maternity Ward 1929.*

|                           |   |                   |
|---------------------------|---|-------------------|
| Total number of cases     | - | 173               |
| Babies born alive         | - | 140               |
| „ still-born in full term | - | 12 ( 5 macerated) |
| „ „ „ premature           | - | 16 (11 „ )        |
| „ B.B.A. alive            | - | 7                 |
| „ „ still-born            | - | 1                 |
| Miscarriages              | - | 4                 |
| „ B.B.A.                  | - | 3                 |

|   |   |                  |
|---|---|------------------|
| Normal Births                               | - | 141              |
| Twins                                       | - | 2 pairs          |
| Breech Presentations                        | - | 12 (5 macerated) |
| Face  | - | 1                |
| Transverse-Arm presenting                   | - | 1                |
| Prolapse of Cord-Vertex Case                | - | 1                |
| Placenta Praevia                            | - | 2                |
| Manual Deliveries under CHCL <sub>3</sub> . | - | 4                |
| 1 Retained 2nd twin                         |   |                  |
| 1 Transverse                                |   |                  |
| 2 Placenta Praevia                          |   |                  |
| Forceps Deliveries                          | - | 2                |
| 1 Persistent Posterior                      |   |                  |
| 1 Obstructed labour-large head              |   |                  |
| Puerperal Mania                             | - | 1                |
| Eclampsia                                   | - | 3                |
| Deaths                                      | - | 3                |

1 Obstructed labour—large head—ruptured uterus—hysterectomy

1 Eclampsia—several fits before admission—died 7 hours later.

1 Placenta Praevia Central—Severe A.P.H. before admission—almost pulseless—died 6½ hours later.



*Note on Still-born Babies.*

Of the 28 cases in 1929, 16 were macerated.

*Remaining 12.*

- 1 Retained 2nd twin—Manual Delivery.
- 2 Persistent Posterior—Forceps Delivery.
- 3 5th Still-born—6 months breech.
- 4 6th Still-born—Very distended abdomen.
- 5 Obstructed labour—large head—Forceps Delivery
- 6 6½ months—A.P.H.
- 7 Mother eclamptic—moribund when delivered.
- 8 Placenta Prævia—Severe A.P.H.
- 9 6 months—Breech
- 10 Transverse—Arm presenting some hours before admission.
- 11 Prolapse of cord in vertex case some hours before admission.
- 12 Placenta Prævia.

*Maternity and Child Welfare.*

These notes are kindly submitted for this return by the Nurse Matron of the Hospital.

The Registered Still-births of the Colony are shown as follows:—

|             |   | Male. | Female. | Total. |
|-------------|---|-------|---------|--------|
| 1st Quarter | - | 10    | 18      | 28     |
| 2nd „       | - | 15    | 15      | 30     |
| 3rd „       | - | 10    | 6       | 16     |
| 4th „       | - | 19    | 13      | 32     |
| Totals      | - | 54    | 52      | 106    |

15 were legitimate ; 91 illegitimate.

The greatest number is recorded as occurring in Kingstown.

Apart from the ravages of disease as evidenced by the hospital returns of 16 macerated babies in a total of 28 still-births there are sufficient data to lead us to the conclusion that the help afforded by the “grannies” and midwives in the Colony is not sufficient or satisfactory. Thus we find of 17 deaths from Tetanus 12 occurred in newly born infants.

Efforts are being made to foster and develop greater efficiency by better training and selection.

**VI. Hospitals and Dispensaries.**

The statistical returns of the work performed during the year are appended.

General improvement and repairs have been carried out at the Colonial Hospital. The Drug Store was removed from the main building between the Maternity and the Children's Wards, and housed in a new addition to the Linen Store.

A fire hydrant was laid down in the grounds and the Institution provided with a fire fighting appliance, hose, &c., of its own. The casualty hospitals and government buildings used as district dispensaries have been repaired and improved where necessary. During his tour of inspection, His Excellency the Governor, was pleased to issue instructions that subsidiary dispensaries should be fitted up and stocked with drugs at Colonarie and Calliaqua. This is a great convenience to the sick poor who can now not only obtain the services of the District Medical Officer at these visiting stations but can have the prescriptions dispensed on the spot. It is anticipated that other subsidiary dispensaries in other districts will be similarly fitted and established.

*Southern Grenadines.* The Medical Officer of Carriacou paid 19 visits to Union Island, 10 to Canouan and 9 to Mayreau. Owing to difficulties arising over transport only 1 visit was paid to the islands during October and none dur-

ing November and December. The visiting station and dispensary were moved from Clifton to Ashton the more populous centre in Union Island.

A cistern for water, capable of holding 5,000 gallons was built at Mayreau; and one capable of holding 6,000 gallons was erected at Canouan. An additional collecting area was completed at Clifton; and at Ashton an over head concrete conduit replaced an underground one to take rain water from the roof of the Anglican Church to the Tank.

A communal latrine over the sea was erected for the inhabitants of Clifton.

The general health of the island was good. The principal diseases reported were Malaria, Ascariasis and Gastro-enteritis. 19 deaths were registered of which 10 were under 1 year of age.

*Bequia.* 16 visits were paid by Medical Officer, District 1 to this island. Difficulties of transport have prevented him from visiting every fortnight.

A new government building was put up during the year; the ground floor is used as a dispensary, while the dispenser has been granted the privilege of the upper storey as quarters.

|                                     |   |     |
|-------------------------------------|---|-----|
| Successful Vaccinations—St. Vincent | - | 808 |
| Bequia                              | - | 33  |
| Southern Grenadines                 | - | 11  |

#### VII. Prisons and Asylums.

##### (a) Prisons.

|         |     | Remaining<br>from 1928. | Admitted<br>1929. | Discharged. | Died. | Daily<br>Average. | Remaining<br>31. 12. 29. |
|---------|-----|-------------------------|-------------------|-------------|-------|-------------------|--------------------------|
| Males   | ... | 20                      | 110               | 105         | 1     | 20.14             | 24                       |
| Females | ... | 1                       | 117               | 107         | ...   | 7.14              | 11                       |
| Totals  | ... | 21                      | 227               | 212         | 1     |                   | 35                       |

The Prison Surgeon reports that the general health of the prisoners has been good. The prisoner detained in the Poor Asylum since 1928 suffering from Pulmonary Tuberculosis died during the year. One female prisoner was transferred to the Lunatic Asylum.

Further efforts have been made to effect improvements and repairs in the Lunatic and Leper Asylums. More air and light have been let into the cells and rooms of the former; additional latrine accommodation and improved water supply put in at the latter.

##### *Pauper Asylum.*

|         |     | Remaining<br>from 1928. | Admitted<br>1929. | Discharged. | Died. | Daily<br>Average. | Remaining<br>at 31. 12. 29. |
|---------|-----|-------------------------|-------------------|-------------|-------|-------------------|-----------------------------|
| Males   | ... | 34                      | 20                | 9           | 12    | 33                | 33                          |
| Females | ... | 30                      | 19                | 5           | 8     | 31                | 36                          |
| Totals  | ... | 64                      | 39                | 14          | 20    |                   | 69                          |



*Lunatic Asylum.*

|         |     | Remaining<br>from 1928. | Admitted<br>1929. | Discharged. | Died. | Daily<br>Average. | Remaining<br>at 31. 12. 29. |
|---------|-----|-------------------------|-------------------|-------------|-------|-------------------|-----------------------------|
| Males   | ... | 13                      | 9                 | 6           | ...   | 15                | 16                          |
| Females | ... | 26                      | 5                 | 5           | 4     | 24                | 22                          |
| Totals  | ... | 39                      | 14                | 11          | 4     | 39                | 38                          |

*Leper Asylum.*

|         |     | Remaining<br>from 1928. | Admitted<br>1929. | Discharged. | Died. | Daily<br>Average. | Remaining<br>at 31. 12. 29. |
|---------|-----|-------------------------|-------------------|-------------|-------|-------------------|-----------------------------|
| Males   | ... | 7                       | 1                 | 1           | 1     | 6                 | 6                           |
| Females | ... | 11                      | 1                 | 2           | ...   | 9                 | 8                           |
| Totals  | ... | 18                      | 2                 | 3           | 1     | 15                | 14                          |

*Paupers.*

Total cases treated during the year showing districts from which they were admitted.

|         |     | No. 1. | No. 2<br>South. | No. 2<br>North. | No. 3. | No. 4. | No. 5. | Grenadines. | Total. |
|---------|-----|--------|-----------------|-----------------|--------|--------|--------|-------------|--------|
| Males   | ... | 24     | 9               | 5               | 10     | 1      | 4      | 1           | 54     |
| Females | ... | 30     | 4               | 5               | 7      | 2      | 1      | ...         | 49     |
| Totals  | ... | 54     | 13              | 10              | 17     | 3      | 5      | 1           | 103    |

Ulcer Cases treated in the Poor Asylum showing districts from which they were admitted.

|         |     | No. 1. | No. 2<br>South. | No. 2<br>North. | No. 3. | No. 4. | No. 5. | Grenadines. | Total. |
|---------|-----|--------|-----------------|-----------------|--------|--------|--------|-------------|--------|
| Males   | ... | 1      | 1               | ...             | 2      | ...    | ...    | ...         | 4      |
| Females | ... | 3      | ...             | 1               | 1      | ...    | ...    | ...         | 5      |
| Totals  | ... | 4      | 1               | 1               | 3      | ...    | ...    | ...         | 9      |

## COLONIAL HOSPITAL

## Return of Diseases and Deaths (In-Patients) for the Year 1929.

| Diseases.  | Remaining in Hos-<br>pital at end of 1928. | Yearly Total. |         | Total Cases Treated. | Remaining in Hos-<br>pital at end of 1929. | Remarks. |
|--|--|---------------|---------|----------------------|--|----------|
|  |  | Admissions.   | Deaths. |                      |  |          |
| 1.— <i>Epidemic, Endemic, and Infec-<br/>tious Diseases.</i> |  |               |         |                      |  |          |
| 1. Enteric Group—  |  |               |         |                      |  |          |
| (a) Typhoid Fever  | ...  | 7             | 1       | 7                    | 1  |          |
| (b) Paratyphoid A.   | ...  |               |         |                      |  |          |
| (c) Paratyphoid B.   | ...  |               |         |                      |  |          |
| (d) Type not defined   | ...  |               |         |                      |  |          |
| 2. Typhus  | ...  |               |         |                      |  |          |
| 3. Relapsing Fever   | ...  |               |         |                      |  |          |
| 4. Undulant Fever  | ...  |               |         |                      |  |          |
| 5. Malaria—  |  |               |         |                      |  |          |
| (a) Tertian  | ...  |               |         |                      |  |          |
| (b) Quartan  | ...  |               |         |                      |  |          |
| (c) Aestivo-autumnal   | ...  | 20            | 1       | 20                   | 1  |          |
| (d) Cachexia   | ...  |               |         |                      |  |          |
| (e) Blackwater   | ...  |               |         |                      |  |          |
| 6. Smallpox—   |  |               |         |                      |  |          |
| Alastrim   | ...  |               |         |                      |  |          |
| 7. Measles   | ...  | 1             |         | 1                    |  |          |
| 8. Scarlet Fever   | ...  |               |         |                      |  |          |
| 9. Whooping Cough  | ...  |               |         |                      |  |          |
| 10. Diphtheria   | ...  | 1             | 1       | 1                    |  |          |
| 11. Influenza  | ...  | 4             | 1       | 4                    |  |          |
| 12. Miliary Fever  | ...  |               |         |                      |  |          |
| 13. Mumps  | ...  |               |         |                      |  |          |
| 14. Cholera  | ...  |               |         |                      |  |          |
| 15. Epidemic diarrhoea                                       | ...  |               |         |                      |  |          |
| 16. Dysentery—   |  |               |         |                      |  |          |
| (a) Amœbic   | ...  |               |         |                      |  |          |
| (b) Bacillary  | ...  |               |         |                      |  |          |
| (c) Undefined or due to other<br>causes                      | ...  |               |         |                      |  |          |
| 17. Plague   | ...  |               |         |                      |  |          |
| (a) Bubonic  | ...  |               |         |                      |  |          |
| (b) Pneumonic  | ...  |               |         |                      |  |          |
| (c) Septicæmic   | ...  |               |         |                      |  |          |
| (d) Undefined  | ...  |               |         |                      |  |          |
| 18. Yellow Fever   | ...  |               |         |                      |  |          |
| 19. Spirochaetosis ictero-hæmorrhagica                       | ...  |               |         |                      |  |          |
| 20. Leprosy  | ...  |               |         |                      |  |          |
| 21. Erysipelas   | ...  |               |         |                      |  |          |
| 22. Acute Poliomyelitis                                      | ...  |               |         |                      |  |          |
| 23. Encephalitis Lethargica                                  | ...  |               |         |                      |  |          |
| 24. Epidemic Cerebro-spinal Fever                            | ...  |               |         |                      |  |          |
| 25. Other Epidemic Diseases—                                 |  |               |         |                      |  |          |
| (a) Rubeola (German Measles)                                 | ...  |               |         |                      |  |          |
| (b) Varicella (Chicken Pox)                                  | ...  |               |         |                      |  |          |
| (c) Kala-azar  | ...  |               |         |                      |  |          |
| (d) Phlebotomus Fever  | ...  |               |         |                      |  |          |
| (e) Dengue   | ...  |               |         |                      |  |          |
| (f) Epidemic Dropsy  | ...  |               |         |                      |  |          |
| (g) Yaws   | ...  | 8             | 121     | 1                    | 129  | 22       |
| (h) Trypanosomiasis  | ...  |               |         |                      |  |          |
| 26. Glanders   | ...  |               |         |                      |  |          |
| 27. Anthrax  | ...  |               |         |                      |  |          |
| 28. Rabies   | ...  |               |         |                      |  |          |
| 29. Tetanus  | ...  | 2             |         | 2                    |  |          |
| Total carried forward  | ...  | 8             | 156     | 5                    | 164  | 24       |



## COLONIAL HOSPITAL.

## Return of Diseases and Deaths (In-Patients) for the Year 1929.

| Diseases.  | Remaining in Hos-<br>pital at end of 1928. | Yearly Total. |         | Total Cases Treated. | Remaining in Hos-<br>pital at end of 1929. | Remarks. |
|--|--|---------------|---------|----------------------|--|----------|
|  |  | Admissions.   | Deaths. |                      |  |          |
| Brought forward ...  | 8  | 156           | 5       | 164                  | 24   |          |
| <i>I.—Epidemic, Endemic, and Infectious Diseases (contd.).</i>                         |  |               |         |                      |  |          |
| 30. Mycosis ...  |  |               |         |                      |  |          |
| 31. Tuberculosis, Pulmonary and Laryn-<br>geal ...                                     | 1  | 21            | 5       | 26                   | 3  |          |
| 32. Tuberculosis of the Meninges or Cen-<br>tral Nervous System ...                    |  |               |         |                      |  |          |
| 33. Tuberculosis of the Intestines or<br>Peritoneum ...                                |  | 4             | 3       | 4                    |  |          |
| 34. Tuberculosis of the Vertebral Column ...   |  |               |         |                      |  |          |
| 35. Tuberculosis of Bones and Joints ...   | 1  |               |         | 1                    |  |          |
| 36. Tuberculosis of other organs—<br>(a) Skin or Subcutaneous Tissue<br>(Lupus) ...    |  |               |         |                      |  |          |
| (b) Bones ...  |  | 1             |         | 1                    |  |          |
| (c) Lymphatic System ...   | 1  | 5             |         | 6                    |  |          |
| (d) Genito-urinary ...   |  |               |         |                      |  |          |
| (e) Other organs ...   |  |               |         |                      |  |          |
| 37. Tuberculosis disseminated—<br>(a) Acute ...  |  | 1             | 1       | 1                    |  |          |
| (b) Chronic ...  |  |               |         |                      |  |          |
| 38. Syphilis—<br>(a) Primary ...   |  | 32            |         | 32                   | 1  |          |
| (b) Secondary ...  |  | 2             |         | 2                    | 1  |          |
| (c) Tertiary ...   |  | 4             |         | 4                    |  |          |
| (d) Hereditary ...   |  | 3             | 2       | 3                    |  |          |
| (e) Period not indicated ...   |  |               |         |                      |  |          |
| 39. Soft Chancre ...   |  | 2             |         | 2                    |  |          |
| 40. A.—Gonorrhœa and its complications ...   |  | 16            |         | 16                   | 1  |          |
| B.—Gonorrhœal Ophthalmia ...   |  | 3             |         | 3                    |  |          |
| C.—Gonorrhœal Arthritis ...  |  |               |         |                      |  |          |
| D.—Granuloma Venereum ...  |  | 2             |         | 2                    |  |          |
| 41. Septicæmia ...   |  |               |         |                      |  |          |
| 42. Other Infectious Diseases—<br>Trypanosomiasis ...                                  |  |               |         |                      |  |          |
| <i>II.—General Diseases not mentioned above.</i>                                       |  |               |         |                      |  |          |
| 43. Cancer or other malignant Tumours<br>of the Buccal Cavity ...                      |  | 1             |         | 1                    |  |          |
| 44. Cancer or other malignant Tumours<br>of the Stomach or Liver ...                   |  | 1             | 1       | 1                    |  |          |
| 45. Cancer or other malignant Tumours<br>of the Peritoneum Intestines, Rec-<br>tum ... |  | 2             | 1       | 2                    |  |          |
| 46. Cancer or other malignant Tumours<br>of the Female Genital Organs ...              |  | 7             | 1       | 7                    | 1  |          |
| 47. Cancer or other malignant Tumours<br>of the Breast ...                             |  |               |         |                      |  |          |
| 48. Cancer or other malignant Tumours<br>of the Skin ...                               |  |               |         |                      |  |          |
| 49. Cancer or other malignant Tumours<br>of Organs not specified ...                   |  |               |         |                      |  |          |
| 50. Tumours non-Malignant ...  |  | 10            |         | 10                   |  |          |
| 51. Acute Rheumatism ...   |  |               |         |                      |  |          |
| 52. Chronic Rheumatism ...   | 1  | 4             |         | 5                    |  |          |
| Total carried forward ...  | 12   | 277           | 19      | 289                  | 31   |          |

## COLONIAL HOSPITAL.

## Return of Diseases and Deaths (In-Patients) for the Year 1929.

| Diseases.  | Remaining in Hos-<br>pital at end of 1928. | Yearly Total. |         | Total Cases Treated. | Remaining in Hos-<br>pital at end of 1929. | Remarks.   |
|--|--|---------------|---------|----------------------|--|------------|
|  |  | Admissions.   | Deaths. |                      |  |            |
| Brought forward  | 12   | 277           | 19      | 289                  | 31   |            |
| II.—General Diseases not mentioned above (contd.)                                  |  |               |         |                      |  |            |
| 53. Scurvy (including Barlow's Disease)  |  |               |         |                      |  |            |
| 54. Pellagra   |  | 1             |         | 1                    |  |            |
| 55. Beri-Beri  |  |               |         |                      |  |            |
| 56. Rickets  |  |               |         |                      |  |            |
| 57. Diabetes (not including Insipidus)   |  | 1             |         | 1                    |  |            |
| 58. Anæmia—  |  |               |         |                      |  |            |
| (a) Pernicious   |  |               |         |                      |  |            |
| (b) Other Anæmias and Chlorosis  |  |               |         |                      |  |            |
| 59. Diseases of the Pituitary Body   |  |               |         |                      |  |            |
| 60. Diseases of the Thyroid Gland—   |  |               |         |                      |  |            |
| (a) Exophthalmic Goitre  |  | 1             |         | 1                    |  |            |
| (b) Other diseases of the Thyroid Gland, Myxœdema                                  |  |               |         |                      |  |            |
| 61. Diseases of the Para-Thyroid Glands  |  |               |         |                      |  |            |
| 62. Diseases of the Thymus   |  |               |         |                      |  |            |
| 63. Diseases of the Supra-Renal Glands...  |  |               |         |                      |  |            |
| 64. Diseases of the Spleen   |  |               |         |                      |  |            |
| 65. Leukæmia—  |  |               |         |                      |  |            |
| (a) Leukæmia   |  |               |         |                      |  |            |
| (b) Hodgkin's Disease  |  |               |         |                      |  |            |
| 66. Alcoholism   |  | 2             |         | 2                    |  |            |
| 67. Chronic poisoning by mineral substances (lead, mercury, &c.)                   | 1  |               |         | 1                    |  | "Mirbane". |
| 68. Chronic poisoning by organic substances (Morphia, Cocaine, &c.)                |  |               |         |                      |  |            |
| 69. Other General Diseases—  |  |               |         |                      |  |            |
| Auto-intoxication  |  |               |         |                      |  |            |
| Purpura Hemorrhagica   |  |               |         |                      |  |            |
| Hæmophilia   |  |               |         |                      |  |            |
| Diabetes Insipidus   |  |               |         |                      |  |            |
| III.—Affections of the Nervous System and Organs of the Senses.                    |  |               |         |                      |  |            |
| 70. Encephalitis (not including Encephalitis Lethargica)                           |  | 1             |         | 1                    |  |            |
| 71. Meningitis (not including Tuberculous Meningitis or Cerebro-spinal Meningitis) |  | 1             | 1       | 1                    |  |            |
| 72. Locomotor Ataxia   |  | 1             |         | 1                    |  |            |
| 73. Other affections of the Spinal Cord  |  | 1             |         | 1                    |  |            |
| 74. Apoplexy—  |  |               |         |                      |  |            |
| (a) Hæmorrhage   |  |               |         |                      |  |            |
| (b) Embolism   |  |               |         |                      |  |            |
| (c) Thrombosis   |  | 1             | 1       | 1                    |  |            |
| 75. Paralysis—   |  |               |         |                      |  |            |
| (a) Hemiplegia   |  | 2             |         | 2                    |  |            |
| (b) Other Paralyses  |  |               |         |                      |  |            |
| 76. General Paralysis of the Insane  |  | 1             |         | 1                    |  |            |
| 77. Other forms of Mental Alienation   |  | 4             |         | 4                    | 1  |            |
| 78. Epilepsy   |  | 1             | 1       | 1                    |  |            |
| 79. Eclampsia, Convulsions (non-puerperal) 5 years or over                         |  |               |         |                      |  |            |
| 80. Infantile Convulsions  |  |               |         |                      |  |            |
| Total carried forward  | 13   | 295           | 22      | 308                  | 32   |            |



## COLONIAL HOSPITAL.

## Return of Diseases and Deaths (In-Patients) for the Year 1929.

| Diseases.   | Remaining in Hospital at end of 1928. | Yearly Total. |         | Total Cases Treated. | Remaining in Hospital at end of 1929. | Remarks. |
|---|---------------------------------------|---------------|---------|----------------------|---------------------------------------|----------|
|   |                                       | Admissions.   | Deaths. |                      |                                       |          |
| Brought forward   | 13                                    | 295           | 22      | 308                  | 32                                    |          |
| III.— <i>Affections of the Nervous System and Organs of the Senses (contd.)</i> |                                       |               |         |                      |                                       |          |
| 81. Chorea  | ...                                   |               |         |                      |                                       |          |
| 82. A.—Hysteria   | ...                                   |               |         |                      |                                       |          |
| B.—Neuritis   | ...                                   | 3             |         | 3                    |                                       |          |
| C.—Neurasthenia   | ...                                   |               |         |                      |                                       |          |
| 83. Cerebral Softening  | ...                                   | 2             |         | 2                    |                                       |          |
| 84. Other affections of the Nervous System, such as Paralysis Agitans           | ...                                   |               |         |                      |                                       |          |
| 85. Affections of the Organs of Vision—   |                                       |               |         |                      |                                       |          |
| (a) Diseases of the Eye   | ...                                   | 7             |         | 7                    |                                       |          |
| (b) Conjunctivitis  | ...                                   | 1             |         | 1                    |                                       |          |
| (c) Trachoma  | ...                                   |               |         |                      |                                       |          |
| (d) Tumours of the Eye  | ...                                   |               |         |                      |                                       |          |
| (e) Other affections of the Eye   | ...                                   | 7             |         | 7                    |                                       |          |
| 86. Affections of the Ear or Mastoid Sinus                                      | 2                                     | 2             |         | 4                    |                                       |          |
| IV.— <i>Affections of the Circulatory System.</i>                               |                                       |               |         |                      |                                       |          |
| 87. Pericarditis  | ...                                   |               |         |                      |                                       |          |
| 88. Acute Endocarditis or Myocarditis   | ...                                   |               |         |                      |                                       |          |
| 89. Angina Pectoris   | ...                                   | 2             |         | 2                    |                                       |          |
| 90. Other Diseases of the Heart—  |                                       |               |         |                      |                                       |          |
| (a) Valvular—   |                                       |               |         |                      |                                       |          |
| Mitral  | 1                                     | 11            | 7       | 12                   | 1                                     |          |
| Aortic  | ...                                   | 5             | 2       | 5                    |                                       |          |
| Tricuspid   | ...                                   |               |         |                      |                                       |          |
| Pulmonary   | ...                                   |               |         |                      |                                       |          |
| (b) Myocarditis   | ...                                   | 2             | 2       | 2                    |                                       |          |
| 91. Diseases of the Arteries—   |                                       |               |         |                      |                                       |          |
| (a) Aneurism  | ...                                   | 2             |         | 2                    |                                       |          |
| (b) Arterio-Sclerosis   | ...                                   | 2             |         | 2                    |                                       |          |
| (c) Other diseases  | ...                                   |               |         |                      |                                       |          |
| 92. Embolism or Thrombosis (non-cerebral)                                       | ...                                   |               |         |                      |                                       |          |
| 93. Diseases of the Veins—  |                                       |               |         |                      |                                       |          |
| Hæmorrhoids   | ...                                   | 3             |         | 3                    |                                       |          |
| Varicose Veins  | ...                                   | 1             |         | 1                    |                                       |          |
| Phlebitis   | ...                                   |               |         |                      |                                       |          |
| 94. Diseases of the Lymphatic System—   |                                       |               |         |                      |                                       |          |
| Lymphangitis  | ...                                   |               |         |                      |                                       |          |
| Lymphadenitis, Bubó (non-specific)  | ...                                   | 7             |         | 7                    |                                       |          |
| 95. Hæmorrhage of undetermined cause  | ...                                   |               |         |                      |                                       |          |
| 96. Other affections of the Circulatory System                                  | ...                                   |               |         |                      |                                       |          |
| V.— <i>Affections of the Respiratory System.</i>                                |                                       |               |         |                      |                                       |          |
| 97. Diseases of the Nasal Passages—   |                                       |               |         |                      |                                       |          |
| Adenoids  | ...                                   |               |         |                      |                                       |          |
| Polypus   | ...                                   | 1             |         | 1                    |                                       |          |
| Rhinitis  | ...                                   |               |         |                      |                                       |          |
| Coryza  | ...                                   |               |         |                      |                                       |          |
| Total carried forward   | 16                                    | 353           | 33      | 369                  | 33                                    |          |

## COLONIAL HOSPITAL.

## Return of Diseases and Deaths (In-Patients) for the Year 1929.

| Diseases.  | Remaining in Hos-<br>pital at end of 1928. | Yearly Total. |         | Total Cases Treated. | Remaining in Hos-<br>pital at end of 1929. | Remarks. |
|--|--|---------------|---------|----------------------|--|----------|
|  |  | Admissions.   | Deaths. |                      |  |          |
| Brought forward                                  | ...  | 16            | 353     | 33                   | 369  | 33       |
| V.—Affections of the Respiratory System (contd.) |  |               |         |                      |  |          |
| 98. Affections of the Larynx—                    |  |               |         |                      |  |          |
| Laryngitis                                       | ...  |               |         |                      |  |          |
| 99. Bronchitis—                                  |  |               |         |                      |  |          |
| (a) Acute  | ...  |               |         |                      |  |          |
| (b) Chronic                                      | ...  | 9             | 1       | 9                    |  |          |
| 100. Broncho-Pneumonia                           | ...  | 1             |         | 1                    |  |          |
| 101. Pneumonia—                                  |  |               |         |                      |  |          |
| (a) Lobar  | ...  | 1             |         | 1                    |  |          |
| (b) Unclassified                                 | ...  |               |         |                      |  |          |
| 102. Pleurisy, Empyema                           | ...  | 1             | 1       | 2                    | 1  |          |
| 103. Congestion of the Lungs                     | ...  |               |         |                      |  |          |
| 104. Gangrene of the Lungs                       | ...  |               |         |                      |  |          |
| 105. Asthma                                      | ...  |               |         |                      |  |          |
| 106. Pulmonary Emphysema                         | ...  |               |         |                      |  |          |
| 107. Other affections of the Lungs—              |  |               |         |                      |  |          |
| Pulmonary Spirochaetosis                         | ...  |               |         |                      |  |          |
| VI.—Diseases of the Digestive System.            |  |               |         |                      |  |          |
| 108. A.—Diseases of Teeth or Gums—               |  |               |         |                      |  |          |
| Caries, Pyorrhœa, &c.                            | ...  |               |         |                      |  |          |
| B.—Other affections of the Mouth—                |  |               |         |                      |  |          |
| Stomatitis                                       | ...  |               |         |                      |  |          |
| Glossitis, &c.                                   | ...  |               |         |                      |  |          |
| 109. Affections of the Pharynx or Tonsils—       |  |               |         |                      |  |          |
| Tonsillitis                                      | ...  | 4             |         | 4                    |  |          |
| Pharyngitis                                      | ...  | 1             |         | 1                    |  |          |
| 110. Affections of the Oesophagus                | ...  |               |         |                      |  |          |
| 111. A.—Ulcer of the Stomach                     | ...  | 1             |         | 1                    |  |          |
| B.—Ulcer of the Duodenum                         | ...  |               |         |                      |  |          |
| 112. Other affections of the Stomach—            |  |               |         |                      |  |          |
| Gastritis  | ...  | 6             | 1       | 6                    |  |          |
| Dyspepsia, &c.                                   | ...  | 2             |         | 2                    |  |          |
| 113. Diarrhœa and Enteritis—                     |  |               |         |                      |  |          |
| Under two years                                  | ...  | 1             |         | 1                    |  |          |
| 114. Diarrhœa and Enteritis—                     |  |               |         |                      |  |          |
| Two years and over                               | ...  | 16            | 2       | 16                   |  |          |
| Colitis  | ...  | 1             |         | 2                    |  |          |
| Ulceration                                       | ...  |               |         |                      |  |          |
| 114a Sprue                                       | ...  |               |         |                      |  |          |
| 115. Ankylostomiasis                             | ...  | 1             | 13      | 3                    | 14   |          |
| 116. Diseases due to Intestinal Parasites        | ...  |               |         |                      |  |          |
| (a) Cestoda (Tænia)                              | ...  |               |         |                      |  |          |
| (b) Trematoda (Flukes)                           | ...  |               |         |                      |  |          |
| (c) Nematoda (other than                         |  |               |         |                      |  |          |
| Ankylostoma)—                                    |  |               |         |                      |  |          |
| Ascaris  | ...  | 8             |         | 8                    |  |          |
| Trichocephalus dispar                            | ...  |               |         |                      |  |          |
| Trichina   | ...  |               |         |                      |  |          |
| Dracunculus                                      | ...  |               |         |                      |  |          |
| Strongylus                                       | ...  |               |         |                      |  |          |
| Oxyuris  | ...  |               |         |                      |  |          |
| (d) Coccidia                                     | ...  |               |         |                      |  |          |
| (e) Other parasites                              | ...  |               |         |                      |  |          |
| (f) Unclassified                                 | ...  |               |         |                      |  |          |
| Total carried forward                            | ...  | 19            | 418     | 40                   | 437  | 34       |



## COLONIAL HOSPITAL.

Return of Diseases and Deaths (In-Patients) for the Year 1929.

| Diseases.  | Remaining in Hos-<br>pital at end of 1928. | Yearly Total. |         | Total Cases Treated. | Remaining in Hos-<br>pital at end of 1929. | Remarks. |
|--|--|---------------|---------|----------------------|--|----------|
|  |  | Admissions.   | Deaths. |                      |  |          |
| Brought forward  | 19   | 418           | 40      | 437                  | 34   |          |
| VI.—Diseases of the Digestive System (contd.)                  |  |               |         |                      |  |          |
| 117. Appendicitis  | ...  | 2             | 1       | 2                    |  |          |
| 118. Hernia  | ...  | 18            | 1       | 18                   |  |          |
| 119. A.—Affections of the Anus, Fis-<br>tula, &c.              | ...  | 1             |         | 1                    |  |          |
| B.—Other affections of the In-<br>testines                     | ...  | 4             | 1       | 4                    |  |          |
| Enteroptosis   | ...  |               |         |                      |  |          |
| Constipation   | ...  | 3             |         | 3                    |  |          |
| 120. Acute Yellow Atrophy of the Liver...                      | ...  |               |         |                      |  |          |
| 121. Hydatid of the Liver                                      | ...  |               |         |                      |  |          |
| 122. Cirrhosis of the Liver—                                   | ...  |               |         |                      |  |          |
| (a) Alcoholic  | ...  |               |         |                      |  |          |
| (b) Other forms  | ...  |               |         |                      |  |          |
| 123. Biliary Calculus  | ...  |               |         |                      |  |          |
| 124. Other affections of the Liver—                            | ...  |               |         |                      |  |          |
| Abscess  | ...  | 1             |         | 1                    |  |          |
| Hepatitis  | ...  |               |         |                      |  |          |
| Cholecystitis  | ...  | 2             |         | 2                    |  |          |
| Jaundice   | ...  |               |         |                      |  |          |
| 125. Diseases of the Pancreas                                  | ...  |               |         |                      |  |          |
| 126. Peritonitis (of unknown cause)                            | ...  |               |         |                      |  |          |
| 127. Other affections of the Digestive<br>System               | ...  |               |         |                      |  |          |
| VII.—Diseases of the Genito-urinary System (non-Veneral)       |  |               |         |                      |  |          |
| 128. Acute Nephritis   | ...  |               |         |                      |  |          |
| 129. Chronic   | 1  | 4             | 2       | 5                    | 1  |          |
| 130. A.—Chyluria   | ...  |               |         |                      |  |          |
| B.—Schistosomiasis   | ...  |               |         |                      |  |          |
| 131. Other affections of the Kidneys—                          | ...  |               |         |                      |  |          |
| Pyelitis, &c.  | 1  |               |         | 1                    |  |          |
| 132. Urinary Calculus  | ...  |               |         |                      |  |          |
| 133. Diseases of the Bladder—                                  | ...  |               |         |                      |  |          |
| Cystitis   | 2  | 8             |         | 10                   |  |          |
| 134. Diseases of the Urethra—                                  | ...  |               |         |                      |  |          |
| (a) Stricture  | ...  | 24            | 3       | 24                   |  |          |
| (b) Other  | ...  | 8             |         | 8                    |  |          |
| 135. Diseases of the Prostate—                                 | ...  |               |         |                      |  |          |
| Hypertrophy  | ...  | 1             |         | 1                    |  |          |
| Prostatitis  | ...  |               |         |                      |  |          |
| 136. Diseases (non-Veneral) of the Geni-<br>tal Organs of Man— | ...  |               |         |                      |  |          |
| Epididymitis   | ...  |               |         |                      |  |          |
| Orchitis   | ...  | 1             |         | 1                    |  |          |
| Hydrocele  | ...  | 6             |         | 6                    |  |          |
| Ulcer of Penis   | ...  | 14            |         | 14                   | 2  |          |
| 137. Cysts or other non-malignant Tumours<br>of the Ovaries    | ...  | 3             |         | 3                    | 1  |          |
| 138. Salpingitis   | ...  | 1             |         | 1                    |  |          |
| Abscess of the Pelvis  | ...  |               |         |                      |  |          |
| 139. Uterine Tumours (non-malignant)                           | ...  | 7             | 1       | 7                    |  |          |
| 140. Uterine Hæmorrhage (non-puerperal)                        | ...  |               |         |                      |  |          |
| Total carried forward  | 23   | 526           | 49      | 549                  | 38   |          |

## COLONIAL HOSPITAL.

Return of Diseases and Deaths (In-Patients) for the Year 1929.

| Diseases.  | Remaining in Hos-<br>pital at end of 1928. | Yearly Total. |         | Total Cases Treated. | Remaining in Hos-<br>pital at end of 1929. | Remarks. |
|--|--|---------------|---------|----------------------|--|----------|
|  |  | Admissions.   | Deaths. |                      |  |          |
| Brought forward  | 23   | 526           | 49      | 549                  | 38   |          |
| <b>VII.—Diseases of the Genito-urinary System (non-Veneral) (contd.)</b>       |  |               |         |                      |  |          |
| 141. A.—Metritis   | ...  | 5             |         | 5                    |  |          |
| B.—Other affections of the Female Genital Organs—                              |  |               |         |                      |  |          |
| Displacements of Uterus  | ...  | 2             |         | 2                    |  |          |
| Amenorrhoea  | ...  |               |         |                      |  |          |
| Dysmenorrhoea  | ...  |               |         |                      |  |          |
| Leucorrhoea  | ...  | 1             |         | 1                    |  |          |
| 142. Diseases of the Breast (non-puerperal)—                                   |  |               |         |                      |  |          |
| Mastitis   | ...  | 7             |         | 7                    |  |          |
| Abscess of Breast  | ...  | 2             |         | 2                    | 1  |          |
| <b>VIII.—Puerperal State.</b>  |  |               |         |                      |  |          |
| 143. A.—Normal Labour  | ...  | 2             | 165     | 167                  | 4  |          |
| B.—Accidents of Pregnancy—   |  |               |         |                      |  |          |
| (a) Abortion   | ...  | 4             |         | 4                    |  |          |
| (b) Ectopic Gestation  | ...  | 1             |         | 1                    | 1  |          |
| (c) Other accidents of Pregnancy   | ...  | 11            | 1       | 11                   |  |          |
| 144. Puerperal Hemorrhage  | ...  | 1             | 1       | 1                    |  |          |
| 145. Other accidents of Parturition  | ...  | 1             | 1       | 1                    |  |          |
| 146. Puerperal Septicæmia  | ...  | 1             |         | 1                    |  |          |
| 147. Phlegmasia Dolens   | ...  |               |         |                      |  |          |
| 148. Puerperal Eclampsia   | ...  | 1             | 1       | 1                    |  |          |
| 149. Sequelæ of Labour   | ...  |               |         |                      |  |          |
| 150. Puerperal affections of the Breast  | ...  |               |         |                      |  |          |
| <b>IX.—Affections of the Skin and Cellular Tissues.</b>                        |  |               |         |                      |  |          |
| 151. Gangrene  | ...  | 2             |         | 2                    |  |          |
| 152. Boil—   |  |               |         |                      |  |          |
| Carbuncle  | ...  | 2             |         | 2                    | 1  |          |
| 153. Abscess—  |  |               |         |                      |  |          |
| Whitlow  | ...  | 31            |         | 31                   |  |          |
| Cellulitis   | ...  | 2             | 12      | 14                   | 1  |          |
| 154. A.—Tinea  | ...  |               |         |                      |  |          |
| B.—Scabies   | ...  |               |         |                      |  |          |
| 155. Other Diseases of the Skin—   |  |               |         |                      |  |          |
| Erythema   | ...  |               |         |                      |  |          |
| Urticaria  | ...  |               |         |                      |  |          |
| Eczema   | ...  | 4             |         | 4                    |  |          |
| Herpes   | ...  |               |         |                      |  |          |
| Psoriasis  | ...  |               |         |                      |  |          |
| Elephantiasis  | ...  | 1             |         | 1                    |  |          |
| Myiasis  | ...  |               |         |                      |  |          |
| Chigoes  | ...  |               |         |                      |  |          |
| Cutaneous Leishmaniasis  | ...  |               |         |                      |  |          |
| <b>X.—Diseases of Bones and Organs of Locomotion (other than Tuberculous).</b> |  |               |         |                      |  |          |
| 156. Diseases of Bones—  |  |               |         |                      |  |          |
| Osteitis   | ...  | 1             |         | 1                    |  |          |
| 157. Diseases of Joints—   |  |               |         |                      |  |          |
| Arthritis  | ...  | 16            |         | 16                   | 4  |          |
| Synovitis  | ...  | 3             |         | 3                    |  |          |
| Total carried forward  | 28   | 799           | 53      | 827                  | 50   |          |



## COLONIAL HOSPITAL.

Return of Diseases and Deaths (In-Patients) for the Year 1929.

| Diseases.  | Remaining in Hos-<br>pital at end of 1928. | Yearly Total. |         | Total Cases Treated. | Remaining in Hos-<br>pital at end of 1929. | Remarks.             |
|--|--|---------------|---------|----------------------|--|----------------------|
|  |  | Admissions.   | Deaths. |                      |  |                      |
| Brought forward ...  | 28   | 799           | 53      | 827                  | 50   |                      |
| <b>X.—Diseases of Bones and Organs of Locomotion (other than Tuberculous (contd).)</b> |  |               |         |                      |  |                      |
| 158. Other Diseases of Bones or Organs of Locomotion ...                               |  |               |         |                      |  |                      |
| <b>XI.—Malformations.</b>  |  |               |         |                      |  |                      |
| 159. Malformations—  |  |               |         |                      |  |                      |
| Hydrocephalus ...  |  |               |         |                      |  |                      |
| Hypospadias ...  |  |               |         |                      |  |                      |
| Spina Bifida, &c. ...  |  | 1             |         | 1                    |  |                      |
| <b>XII.—Diseases of Infancy.</b>   |  |               |         |                      |  |                      |
| 160. Congenital Debility ...   |  | 2             |         | 2                    |  |                      |
| 161. Premature Birth ...   |  |               |         |                      |  |                      |
| 162. Other affections of Infancy ...   | 1  | 2             | 1       | 3                    | 1  |                      |
| 163. Infant neglect (infants of three months or over) ...                              |  | 3             |         | 3                    |  |                      |
| <b>XIII.—Affections of Old Age.</b>  |  |               |         |                      |  |                      |
| 164. Senility—   |  |               |         |                      |  |                      |
| Senile Dementia ...  | 1  | 10            | 4       | 10                   | 1  |                      |
| <b>XIV.—Affections produced by External Causes.</b>                                    |  |               |         |                      |  |                      |
| 165. Suicide by Poisoning ...  |  |               |         |                      |  |                      |
| 166. Corrosive Poisoning (intentional) ...   |  |               |         |                      |  |                      |
| 167. Suicide by Gas Poisoning ...  |  |               |         |                      |  |                      |
| 168. Suicide by Hanging or Strangulation ...   |  |               |         |                      |  |                      |
| 169. Suicide by Drowning ...   |  |               |         |                      |  |                      |
| 170. Suicide by Firearms ...   |  |               |         |                      |  |                      |
| 171. Suicide by cutting or stabbing Instruments ...                                    |  |               |         |                      |  |                      |
| 172. Suicide by jumping from a height ...  |  |               |         |                      |  |                      |
| 173. Suicide by crushing ...   |  |               |         |                      |  |                      |
| 174. Other Suicides ...  |  |               |         |                      |  |                      |
| 175. Food Poisoning—   |  |               |         |                      |  |                      |
| Botulism ...   |  |               |         |                      |  |                      |
| 176. Attacks of poisonous animals—   |  |               |         |                      |  |                      |
| Snake Bite ...   |  |               |         |                      |  |                      |
| Insect Bite ...  |  |               |         |                      |  |                      |
| 177. Other accidental Poisonings ...   |  |               |         |                      |  |                      |
| 178. Burns (by Fire) ...   |  | 9             | 1       | 9                    |  |                      |
| 179. Burns (other than by Fire) ...  | 2  |               |         | 2                    |  |                      |
| 180. Suffocation (accidental) ...  |  |               |         |                      |  |                      |
| 181. Poisoning by Gas (accidental) ...   |  |               |         |                      |  |                      |
| 182. Drowning (accidental) ...   |  |               |         |                      |  |                      |
| 183. Wounds (by Firearms, war excepted) ...  |  |               |         |                      |  |                      |
| 184. Wounds (by cutting or stabbing Instruments) ...                                   |  | 10            |         | 10                   | 1  |                      |
| 185. Wounds (by Fall) ...  | 1  | 8             |         | 9                    |  |                      |
| 186. Wounds (in Mines or Quarries) ...   |  |               |         |                      |  |                      |
| 187. Wounds (by Machinery) ...   |  | 4             |         | 4                    |  |                      |
| 188. Wounds (crushing, e.g. railway accidents, &c.) ...                                |  | 7             |         | 7                    |  | Motor Car and Lorry. |
| Total carried forward ...  | 33   | 855           | 59      | 888                  | 52   |                      |

## COLONIAL HOSPITAL.

## Return of Diseases and Deaths (In-Patients) for the Year 1929.

| Diseases.  | Remaining in Hos-<br>pital at end of 1928. | Yearly Total. |         | Total Cases Treated. | Remaining in Hos-<br>pital at end of 1929. | Remarks. |
|--|--|---------------|---------|----------------------|--|----------|
|  |  | Admissions.   | Deaths. |                      |  |          |
| Brought forward ...  | 33   | 855           | 59      | 888                  | 52   |          |
| XIV.— <i>Affections produced by External Causes</i> (contd.)         |  |               |         |                      |  |          |
| 189. Injuries inflicted by Animals, Bites, Kicks, &c. ...            |  | 9             |         | 9                    | 1  |          |
| 190. Wounds inflicted on Active Service...                           |  |               |         |                      |  |          |
| 191. Executions of civilians by belligerents                         |  |               |         |                      |  |          |
| 192. A.—Over fatigue ...   |  |               |         |                      |  |          |
| B.—Hunger or Thirst ...  |  |               |         |                      |  |          |
| 193. Exposure to Cold, Frost bite, &c. ...                           |  |               |         |                      |  |          |
| 194. Exposure to Heat—   |  |               |         |                      |  |          |
| Heatstroke ...   |  |               |         |                      |  |          |
| Sunstroke ...  |  |               |         |                      |  |          |
| 195. Lightning Stroke ...  |  |               |         |                      |  |          |
| 196. Electric Shock ...  |  |               |         |                      |  |          |
| 197. Murder by Firearms ...  |  |               |         |                      |  |          |
| 198. Murder by cutting or stabbing In-<br>struments ...              |  |               |         |                      |  |          |
| 199. Murder by other means ...                                       |  |               |         |                      |  |          |
| 200. Infanticide (Murder of an infant<br>under one year) ...         |  |               |         |                      |  |          |
| 201. A.—Dislocation ...  |  | 2             |         | 2                    |  |          |
| B.—Sprain ...  |  |               |         |                      |  |          |
| C.—Fracture ...  | 1  | 22            |         | 23                   |  |          |
| 202. Other external Injuries ...                                     | 1  |               |         | 1                    |  |          |
| 203. Deaths by Violence of unknown<br>cause ...                      |  |               |         |                      |  |          |
| XV.— <i>Ill-Defined Diseases.</i>                                    |  |               |         |                      |  |          |
| 204. Sudden Death (cause unknown) ...                                |  |               |         |                      |  |          |
| 205. A.—Diseases not already specified<br>or ill-defined—            |  |               |         |                      |  |          |
| Ascites ...  |  | 1             |         | 1                    |  |          |
| Edema ...  |  |               |         |                      |  |          |
| Asthenia ...   | 2  | 8             |         | 10                   | 1  |          |
| Shock ...  |  |               |         |                      |  |          |
| Hyperpyrexia ...   |  |               |         |                      |  |          |
| B.—Malingering ...   |  |               |         |                      |  |          |
| XVI.— <i>Diseases, the total of which have not caused 10 Deaths.</i> |  |               |         |                      |  |          |
| Total ...  | 37   | 897           | 59      | 934                  | 54   |          |



## Classification of Operations performed at the Colonial Hospital, 1929.

|                              | Cases. | Deaths. |                                      | Cases. | Deaths. |
|------------------------------|--------|---------|--------------------------------------|--------|---------|
| Aspiration—Abscess ...       | 2      |         | Brought forward ...                  | 123    | 1       |
| Amputation—                  |        |         | Reduction—Fracture ...               | 7      |         |
| Finger ...                   | 10     |         | Incision and Drainage ...            | 80     |         |
| Hand ...                     | 1      |         | Laparotomy—                          |        |         |
| Toe ...                      | 3      |         | Appendicectomy ...                   | 1      |         |
| Foot ...                     | 2      |         | Septic Peritonitis ...               | 1      | 1       |
| Leg ...                      | 5      |         | Exploratory ...                      | 2      | 1       |
| Avulsion—Nail ...            | 8      |         | Ruptured Ectopic ...                 | 1      |         |
| Circumcision ...             | 40     |         | Hysterectomy for Ruptured Uterus ... | 1      | 1       |
| Curettage ...                | 6      |         | Nasal Polypus ...                    | 2      |         |
| Excision—                    |        |         | Sequestrectomy ...                   | 7      |         |
| Tumour non-Malignant ...     | 17     |         | Tonsils and Adenoids ...             | 4      |         |
| " Malignant ...              | 4      |         | Ulcers—Scraping ...                  | 12     |         |
| Pterygium ...                | 2      |         | Scraping and Cauterisation ...       | 4      |         |
| Enucleation—Eye ...          | 2      |         | Wounds—Ligatured and Stitched ...    | 6      |         |
| Extraction—Foreign Body ...  | 3      |         |                                      |        |         |
| Herniotomy—Strangulation ... | 3      | 1       |                                      |        |         |
| Radical Cure—Hernia ...      | 7      |         |                                      |        |         |
| " " Hydrocele ...            | 5      |         |                                      |        |         |
| Reduction—Dislocation ...    | 3      |         |                                      |        |         |
| Carried forward ...          | 123    | 1       | Total ...                            | 251    | 4       |

## CHATEAUBELAIR HOSPITAL.

## Return of Diseases and Deaths for the year 1929.

| Diseases.   | No. of Cases. | No. of Deaths. | Diseases.  | No. of Cases. | No. of Deaths. |
|---|---------------|----------------|--|---------------|----------------|
| I. Epidemic, Endemic and Infectious Diseases:—                |               |                | Brought forward ...                                  | 11            | 2              |
| 25. (g) Yaws ...  | 1             |                | VIII. Puerperal State:—                              |               |                |
| 38. (c) Syphilis (Tertiary) ...                               | 1             |                | 143. A. Normal Labour ...                            | 1             |                |
| III. Affections of the Nervous System and Organs of Senses:—  |               |                | B. Accidents of Pregnancy—                           |               |                |
| 75. Paralysis—  |               |                | (c) Other Accidents of Pregnancy ...                 | 1             |                |
| (a) Hemiplegia ...  | 1             |                | IX. Affections of the Skin and Cellular Tissues:—    |               |                |
| IV. Affections of the Circulatory System:—                    |               |                | 153. Abscess ...                                     | 2             |                |
| 90. Other Disease of the Heart ...                            | 1             |                | Whitlow ...  | 1             |                |
| VI. Diseases of the Digestive System:—                        |               |                | XIV. Affections produced by External Causes:—        |               |                |
| 108. B. Other affections of the Mouth ...                     | 1             | 1              | 177. Other accidental poisonings ...                 | 1             |                |
| 118. Hernia ...   | 1             |                | 184. Wounds (by cutting or stabbing instruments) ... | 3             |                |
| VII. Diseases of the Genito-Urinary System (Non-Venereal):—   |               |                | 201. A. Dislocation ...                              | 1             |                |
| 136. Diseases (Non Venereal) of the Genital Organs of Man ... | 4             |                |  |               |                |
| 138. Abscess of the Pelvis ...                                | 1             | 1              |  |               |                |
| Carried forward ...   | 11            | 2              | Total ...  | 21            | 2              |

## GEORGETOWN HOSPITAL.

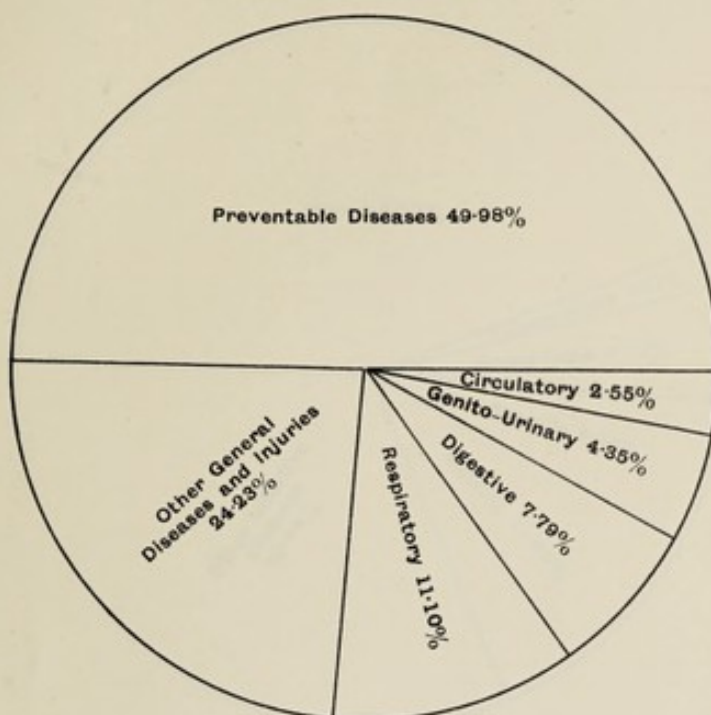
## Return of Diseases and Deaths for the year 1929.

| Diseases.  | No. of Cases. | No. of Deaths. | Diseases.  | No. of Cases. | No. of Deaths. |
|--|---------------|----------------|--|---------------|----------------|
| I. Epidemic, Endemic and Infectious Diseases:—                   |               |                | Brought forward ...  | 16            | 1              |
| 38. Syphilis—  |               |                | VII. Diseases of the Genito-Urinary System (Non-Venereal):— (Contd.) |               |                |
| (b) Secondary ...  | 1             | 1              | 134. Stricture of Urethra ...  | 1             |                |
| (c) Tertiary ...   | 1             |                | 138. Salpingitis ...   | 1             |                |
| 40. A. Gonorrhoea and its Complications ...                      | 1             |                | 140. Uterine Haemorrhage (Non-puerperal) ...                         | 1             |                |
| III. Affections of the Nervous System and Organs of the Senses:— |               |                | IX. Affections of the Skin and Cellular Tissues:—                    |               |                |
| 82. (c) Neurasthenia ...   | 1             |                | 151. Gangrene ...  | 1             |                |
| 85. (c) Affections of the Organs of Vision ...                   | 1             |                | 153. Abscess ...   | 1             |                |
| IV. Affections of the Circulatory System:—                       |               |                | X. Diseases of Bones and Organs of Locomotion:—                      |               |                |
| 90. Valvular Disease of the Heart—                               |               |                | (Other than Tuberculous):—   |               |                |
| (a) Mitral ...   | 1             |                | 157. Synovitis ...   | 2             |                |
| 91. Diseases of the Arteries—                                    |               |                | XIV. Affections produced by external causes:—                        |               |                |
| (a) Aneurism ...   | 1             |                | 184. Wounds (by cutting or stabbing instruments) ...                 | 1             |                |
| VI. Diseases of the Digestive System:—                           |               |                | 189. Injuries inflicted by Animals, bites, kicks, &c. ...            | 2             |                |
| 112. Gastritis ...   | 2             |                | 201. (c) Fracture ...  | 13            | 1              |
| 118. Hernia ...  | 1             |                | 202. Other external injuries ...                                     | 7             | 1              |
| 119. (b) Constipation ...  | 1             |                |  |               |                |
| 124. Liver Abscess ...   | 1             |                |  |               |                |
| VII. Diseases of the Genito-Urinary System (Non-Venereal):—      |               |                |  |               |                |
| 128. Acute Nephritis ...   | 1             |                |  |               |                |
| 133. Cystitis ...  | 3             |                |  |               |                |
| Carried forward ...  | 16            | 1              | Total ...  | 46            | 3              |

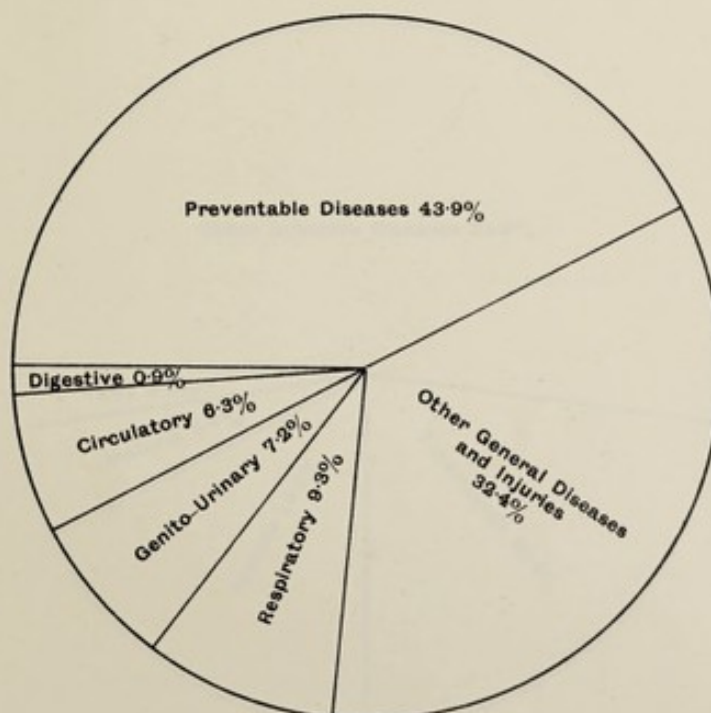


# GENERAL SYSTEMIC AND PREVENTABLE DISEASES.

TOTAL INCIDENCE, 27,240.

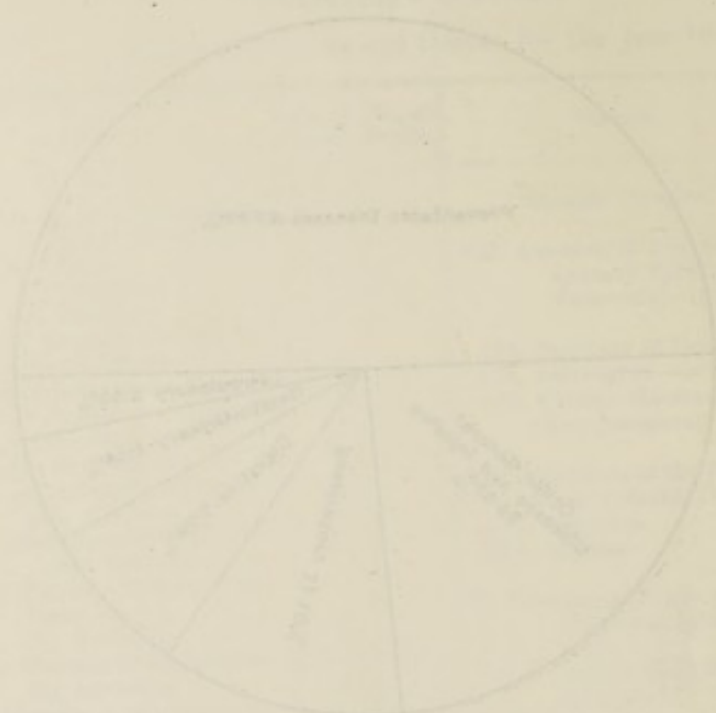


TOTAL DEATHS, 903.

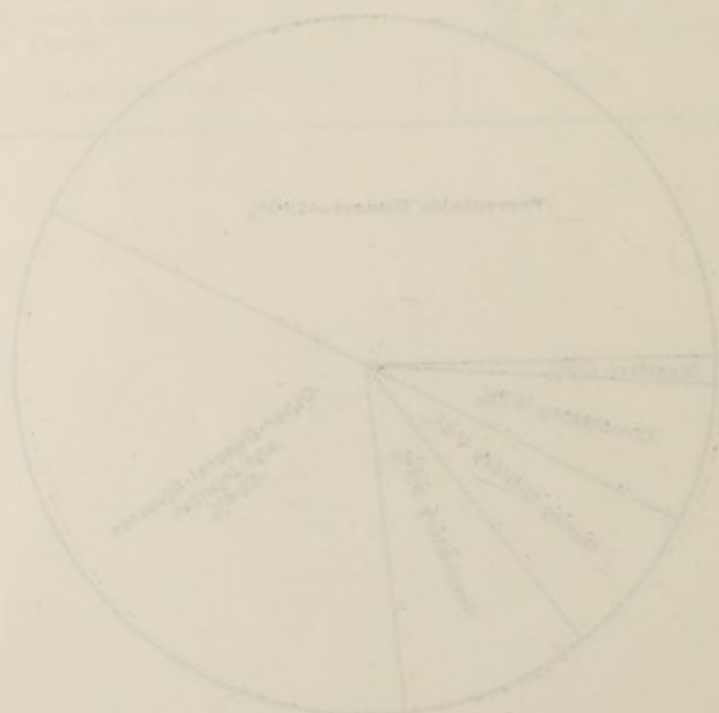


# GENERAL SYSTEMIC AND PNEUMONAL DISEASES

TOTAL DISEASES



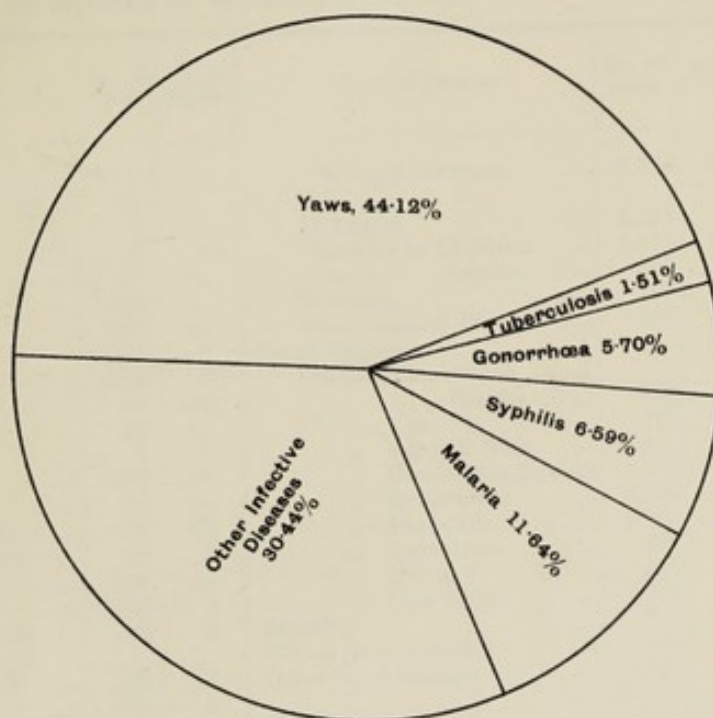
TOTAL DISEASES



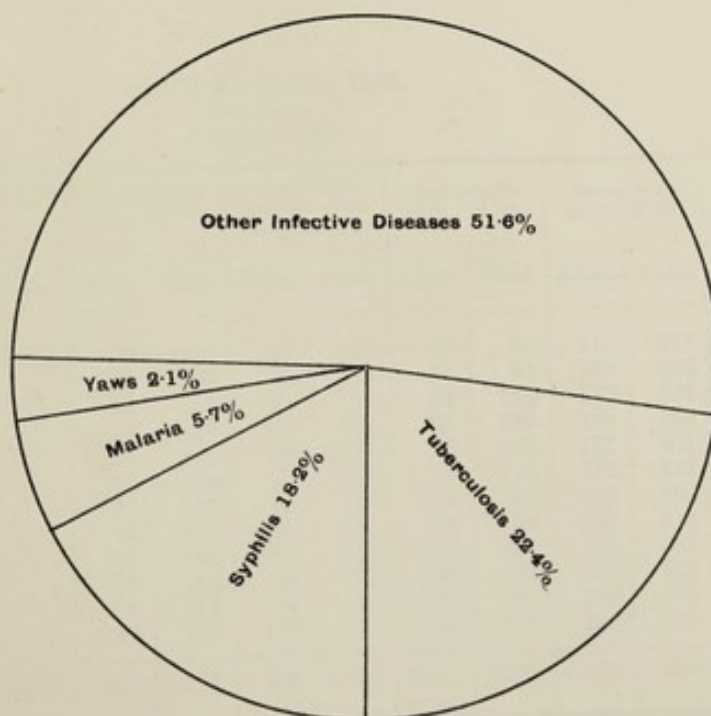


## INFECTIVE DISEASES.

TOTAL INCIDENCE 6,210.

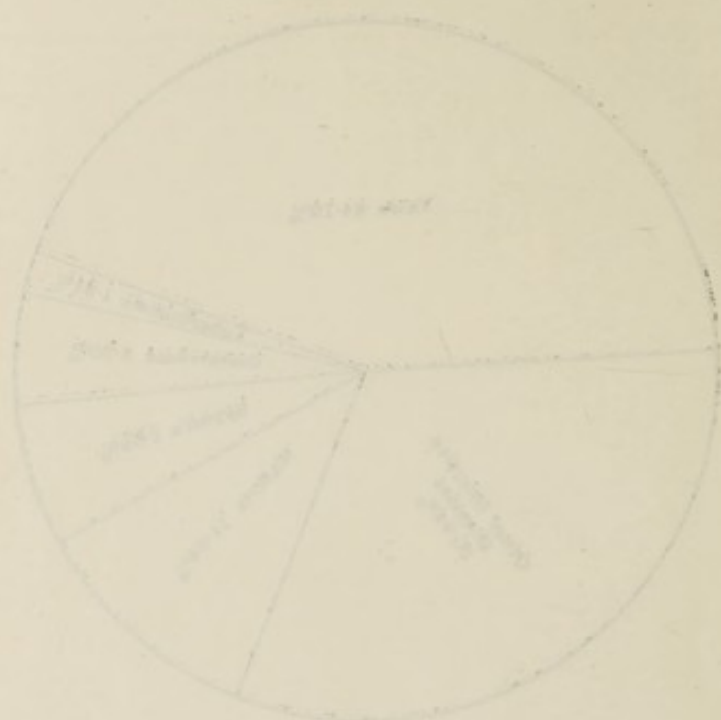


TOTAL DEATHS 192.



# INVESTIVE DISBURSES

TOTAL INVESTIVE DISBURSES \$100



TOTAL REVENUE \$100





## DISEASES IN THE OUT DISTRICTS FOR YEAR 1929.

As reported by the Medical Officers.

| Name of Disease.             | No. of cases. | No. of deaths. | Name of Disease.           | No. of cases. | No. of deaths. |
|------------------------------|---------------|----------------|----------------------------|---------------|----------------|
| <b>Infective Diseases :</b>  |               |                | <b>Brought forward</b> ... | 6,934         | 166            |
| Chicken Pox ...              | 81            | ...            | Ascariasis ...             | 5,558         | 49             |
| Diphtheria ...               | 1             | 1              | Diarrhoea in Children ...  | 1,136         | 119            |
| Enteric Fever ...            | 9             | 1              | Do. Adults ...             | 183           | 9              |
| Filaria ...                  | 20            | ...            | Tumours ...                | 109           | 11             |
| Gonorrhoea ...               | 354           | ...            | Other General Diseases ... | 1,332         | 122            |
| Influenza ...                | 305           | 11             | <b>Local Diseases :</b>    |               |                |
| Malaria ...                  | 723           | 8              | Diseases of Nervous        |               |                |
| Measles ...                  | 320           | 6              | System ...                 | 410           | 17             |
| Pneumonia ...                | 46            | 10             | .. Eye ...                 | 468           | ...            |
| Rheumatic Fever ...          | 22            | ...            | .. Ear and Nose ...        | 411           | ...            |
| Septicæmia ...               | 1             | 1              | .. Circulatory System ...  | 694           | 65             |
| Syphilis ...                 | 409           | 29             | .. Respiratory ..          | 3,024         | 80             |
| Tetanus ...                  | 16            | 15             | .. Digestive ..            | 2,122         | 36             |
| Tuberculosis Pulmonary ...   | 75            | 24             | .. Lymphatic ..            | 252           | 1              |
| Do. other ...                | 19            | 1              | .. Urinary ..              | 417           | 48             |
| Whooping Cough ...           | 729           | 43             | .. Generative ..           | 769           | 14             |
| Yaws ...                     | 2,740         | 3              | Injuries ...               | 755           | 6              |
| Other infective diseases ... | 386           | 3              | Ulcers (non specific) ...  | 754           | 1              |
| <b>General Diseases :</b>    |               |                | Other local diseases ...   | 1,912         | 5              |
| Anæmia ...                   | 196           | 4              |                            |               |                |
| Ankylostomiasis ...          | 482           | 6              |                            |               |                |
| <b>Carried forward</b> ...   | 6,934         | 166            | <b>Total</b> ...           | 27,240        | 749            |

## YAWS RETURN, 1929.

(DISTRICTS.)

|                  | On list from 1928. |        | Cases added in 1929. |        | Cases discharged clinically cured. |        | Defaulters at 31. 12. 29. |        | Remaining at 31. 12. 29. |        | Injections. |
|------------------|--------------------|--------|----------------------|--------|------------------------------------|--------|---------------------------|--------|--------------------------|--------|-------------|
|                  | Adult.             | Child. | Adult.               | Child. | Adult.                             | Child. | Adult.                    | Child. | Adult.                   | Child. |             |
| January ...      | 5,911              | 9,600  | 79                   | 205    | 71                                 | 173    | 90                        | 83     | 146                      | 218    | 436         |
| February ...     |                    |        | 67                   | 181    | 71                                 | 83     | 55                        | 96     | 142                      | 316    | 585         |
| March ...        |                    |        | 97                   | 159    | 66                                 | 81     | 64                        | 144    | 173                      | 394    | 584         |
| April ...        |                    |        | 66                   | 120    | 50                                 | 129    | 101                       | 190    | 189                      | 385    | 532         |
| May ...          |                    |        | 71                   | 170    | 89                                 | 154    | 66                        | 180    | 171                      | 401    | 549         |
| June ...         |                    |        | 66                   | 139    | 65                                 | 114    | 75                        | 173    | 172                      | 426    | 504         |
| July ...         |                    |        | 93                   | 132    | 41                                 | 96     | 112                       | 305    | 224                      | 462    | 523         |
| August ...       |                    |        | 96                   | 116    | 120                                | 233    | 84                        | 238    | 200                      | 345    | 521         |
| September ...    |                    |        | 103                  | 132    | 107                                | 139    | 106                       | 228    | 196                      | 338    | 558         |
| October ...      |                    |        | 76                   | 146    | 58                                 | 52     | 120                       | 232    | 214                      | 432    | 557         |
| November ...     |                    |        | 66                   | 144    | 81                                 | 85     | 132                       | 354    | 199                      | 491    | 498         |
| December ...     |                    |        | 86                   | 130    | 179                                | 511    | 68                        | 136    | 106                      | 110    | 590         |
| <b>Total</b> ... | 5,911              | 9,600  | 966                  | 1,774  | 998                                | 1,850  | 1,073                     | 2,359  | 2,132                    | 4,318  | 6,437       |

## METEOROLOGICAL RETURN FOR THE YEAR 1929.

|           | Temperature. |           |             | Rainfall. |                     | Winds.             |                               |
|-----------|--------------|-----------|-------------|-----------|---------------------|--------------------|-------------------------------|
|           | Mean Max.    | Mean Min. | Mean Range. | Inches.   | Degree of Humidity. | General Direction. | Average force-miles per hour. |
| January   | 81.7         | 72.9      | 8.8         | 2.81      | 69.8                | S.E.               | 6.86                          |
| February  | 81.7         | 73.0      | 8.8         | 5.62      | 71.8                | S.E.               | 6.69                          |
| March     | 83.3         | 73.7      | 9.6         | 1.81      | 66.4                | E.                 | 6.35                          |
| April     | 84.5         | 75.6      | 8.9         | .54       | 68.9                | N.E.               | 10.38                         |
| May       | 84.3         | 76.1      | 8.2         | 5.63      | 75.7                | N.E.               | 9.98                          |
| June      | 84.4         | 76.6      | 7.8         | 7.29      | 77.7                | E.                 | 7.77                          |
| July      | 84.9         | 76.9      | 8.0         | 7.44      | 74.8                | S.E.               | 7.63                          |
| August    | 86.1         | 76.5      | 9.6         | 8.20      | 75.7                | N.E.               | 4.86                          |
| September | 86.2         | 76.7      | 9.5         | 14.15     | 76.6                | N.E. S.E.          | 5.18                          |
| October   | 86.2         | 76.4      | 9.8         | 7.46      | 73.8                | S.E.               | 4.61                          |
| November  | 84.6         | 75.8      | 8.8         | 16.87     | 75.9                | E.                 | 5.90                          |
| December  | 82.7         | 74.2      | 8.5         | 4.14      | 69.3                | S.E.               | 6.96                          |
|           |              |           |             | 81.96     |                     |                    |                               |

It is my pleasure to record that during the year two very notable and philanthropic gifts have been bestowed on the Medical Department by well known citizens of the Colony.

1. Mr. C. J. Simmons gave the Government, in memory of his father, Bentinck Lodge, as a residence for the present and every subsequent holder of the post of Chief Medical Officer. This is one of the finest residences in Kingstown, cool and commodious, situated on Victoria Park and within a stone's throw of the Hospital. Improvements and alterations were carried out by the Superintendent of Works. The Chief Medical Officer took up his residence there in July.

The annual rental, estimated at £50, defrays the expenses of any patient admitted into the wards reserved for paying patients, but who from financial reasons is unable to afford the charges. The reserved accommodation is obtained by a recommendation from Mr. Simmons or his Attorney.

2. Mr. John Punnett gave an acre of land on the Pembroke Estate, on which the new residence for the Medical Officer of District 2 (South) has been built. The generous gift of this site is greatly appreciated by the Government.

The Government of the Colony now possesses 4 residences for District Medical Officers.





