# Annual medical and sanitary report of the Director of Medical Services / Trinidad and Tobago.

## **Contributors**

Trinidad and Tobago. Department of Medical Services.

# **Publication/Creation**

Trinidad and Tobago: Govt. Printer, [1945]

#### **Persistent URL**

https://wellcomecollection.org/works/d2cpgapt

#### 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.



TRINIDAD AND TOBAGO



# HEALTH

# MEDICAL AND SANITARY REPORT

of the

DIRECTOR OF MEDICAL SERVICES

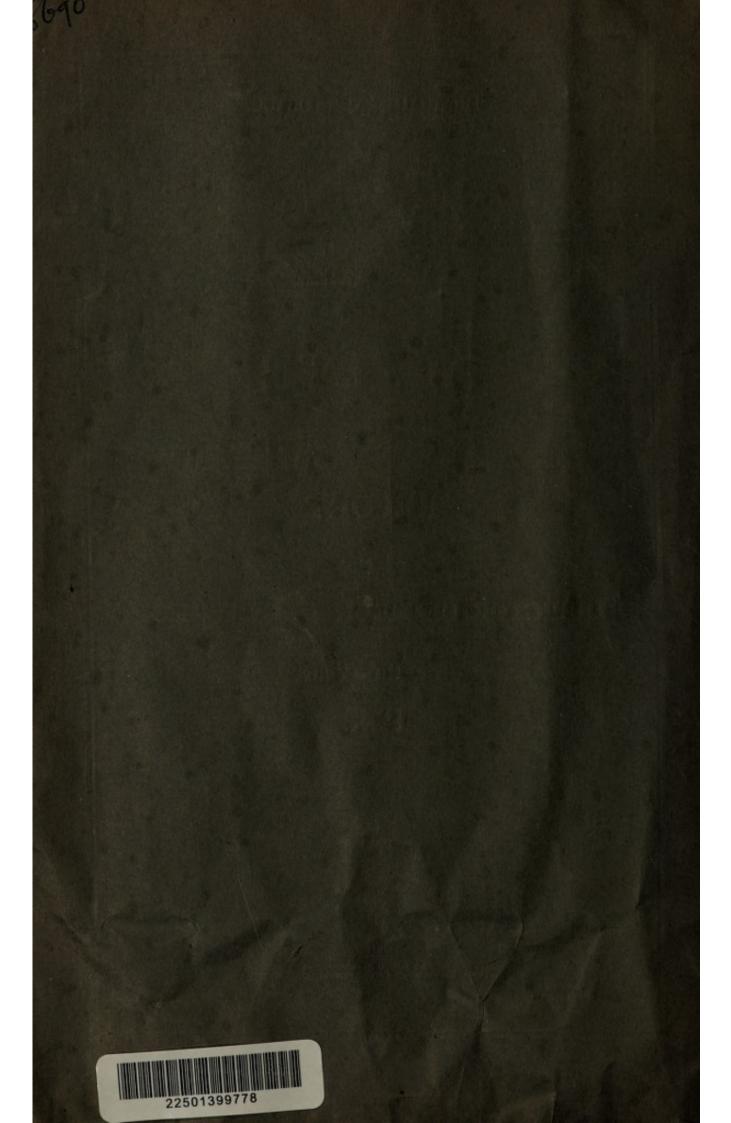
for the Year

1945

TENNIDAD AND TOZAGO.

PROVIDED DED PUBLISHED BY YES GOVERNMENT PRINTER.

Price 60c.





# HEALTH

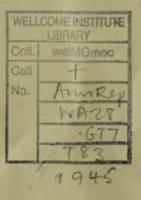
# MEDICAL AND SANITARY REPORT

of the

DIRECTOR OF MEDICAL SERVICES

for the Year

1945





# CONTENTS

							PAGE.
SECTION I	GENERAL ADMINISTRA	TION					1
SECTION II	Finance						2
SECTION III	VITAL STATISTICS						3
SECTION IV	PUBLIC HEALTH						4-6
openion							
SECTION IVA.	SPECIAL DIVISIONS AN	D SERVIC	ES	**			7-15
	Leprosy Division			. "	2.5		7
	Malaria Division	to I Dist	**	**			8-11
	Venereal Diseases Con	troi Divis	sion		**		11-13
	Dental Service						13
	Work on Nutrition	**	-	**			14
SECTION V	HYGIENE AND SANITAT	TION					15-18
	1. Preventive Measure	s					15
	2. General Measures of	f Sanitati	ion				15
	3. School Hygiene						16
	4. Measures taken to s	spread th	e knowle	dge of H	ygiene an	d	
	Sanitation			.,			17
	5. Labour conditions						17
	6. Housing						17
	7. Food in relation to	health ar	nd diseas	e			18
SECTION VI	PORT HEALTH WORK	AND ADM	INISTRAT	ION			18
SECTION VII	MATERNITY AND CHIL	D WELFA	RE SERVI	CES			18
SECTION VIII	HOSPITALS AND DISPE	NSARIES					19-22
	Colonial Hospital, Por	t-of-Spain	n				19-20
	Colonial Hospital, San						21
	Colonial Hospital, Tob						21
	St. Ann's Mental Hosp	30000					22
SECTION IX	LABORATORY SERVICES	s					23
TABLE I	Principal causes of de	athe for t	he weare	1944 and	1 1945		
TABLE II	Prevalence of notifiab		- 2			muni-	
IADLE II	cable diseases during			ses and c	vener com	III GIII	
TABLE III	General diseases treat	ted in ho	spitals d	luring 19	44 and 1	945	
TABLE IV	Showing conditions for Mental Hospital in			were a	dmitted t	o the	
TABLE V	Showing causes of dea Hospital during 194	ths of pa		ing at th	ne Mental		
TABLE VI	Summary of Staff:						
TABLE VIA	Distribution of staff						
APPENDIX I	Report on residual D.	D.T. Ho	use Spray	ying at (	California,	1945	
APPENDIX II	Report on Malaria Con	ntrol of I	Bromeliad	Malaria	for 1945.		

## HEALTH

# Medical and Sanitary Report of the Director of Medical Services for the year 1945

HON. COLONIAL SECRETARY,

I have the honour to submit, for the information of His Excellency the Governor, the Annual Report of the Director of Medical Services for the year 1945.

G. MACLEAN, Director of Medical Services.

#### SECTION I-GENERAL ADMINISTRATION.

The state of health of the colony during 1945 was not materially different from that during previous years.

There are a number of local medical problems which require investigation, the most obvious of which are fevers of unknown origin, rheumatic conditions, intestinal infections, anaemias and nephritis.

Progress has been made in the control of malaria by the extension of anti-mosquito measures (including the use of D.D.T.), with the treatment of cutaneous lesions of leprosy by changes in the diet and the administration of yeast, promin and diazone, and in the treatment of various infectious diseases by the more extensive use of penicillin.

Venereal diseases among the general population and helminthic diseases in the rural areas continue to be responsible for a considerable amount of ill health, while deaths from tuberculosis still remain seriously high.

There was a slight increase in the number of cases of typhoid, 511 cases being recorded as against 423 in 1944.

There was a general improvement in both rural and urban housing but the extensions and improvements made still fall far short of what is actually needed and, in the urban areas, particularly, bad and insufficient housing still form one of the chief obstacles to the improvements of the standard of health.

Systematic health education was begun on a small scale towards the end of the year.

Observations were continued on the state of nutrition of the general population. A number of surveys were carried out in which family dietaries were compared with the family state of health. Other surveys were carried out on the nutritional state of school children and observations were made on the use of skimmed milk as an accessory to the children's diet.

The post of Superintendent, Infant Welfare and Maternity Services, was vacant for the first three months of the year.

#### SECTION II-FINANCE

A. Revenue	e	
· ·	\$ c. \$ (	c.,
Bacteriological fees	630 64	
Dental clinic fees	236 52	
Fumigating vessels	45 50	
Examination fees: Sanitary Inspectors an	nd	
Nurses	THE RESERVE THE PARTY OF THE PA	
Hospitals-Maintenance of patients and		
operation charges	45,711 16	
Hospitals-Miscellaneous	1,890 97	
Medicines sold at Institutions	12,725 22	
Milk badges, milk vendors and dairymen		
licences	143 79	
Surplus stores	505 62 66,435 4	2
Reimbursements	865 3	1
Total	67,300 7	3

3.

Service	Personal Emoluments	Transport and Travelling	Other Charges	Total
	\$ c.	\$ c.	\$ c.	\$ c.
1. General Administration		78,922 19	40,985 99	399,529 95
2. Institution Service		***	935,243 00	1,365,733 79
3. District Service	56,951 73		42,270 04	99,221 77
4. Public Health and Sanitary				
Services	101,384 84		80,892 63	182,277 47
5. Laboratory Service	11,727 55		4,767 46	16,495 01
6. Quarantine Service	2,036 00		5,745 70	7,781 70
7. Venereal Disease Control			182,937 73	192,937 73
8. Venereal Disease Service	4,416 10		5,476 84	9,892 94
9. Dental Service	100 000 00		2,446 00	13,222 37
10. Tuberculosis Survey			4,219 73	4,219 73
11. Leprosy Survey	1			
12. Yellow Fever Control			101 63	101 63
13. Experimental Nutrition Unit			6,708 96	
14. Extraordinary-Purchase of				100000
Ambulance, &c			15,416 27	15,416 27
15. Unallocated Stores—Medical			10,110	10,110
Stores			24,036 72	24,036 72
16. Miscellaneous	1 1 1 1 1 1 1 1 1 1 1 1 1	1 100	4.878 45	4,878 45
IO. Miscensions III			4,070 10	1,070 10
Total	\$897,405 15	\$78,922 19	\$1,351,248 70	\$2,327,576 04

## SECTION III-VITAL STATISTICS.

4. The estimated population of the colony at 31st December, 1945 was 558,048. In 1944 the population was estimated to be 546,088. The excess of births over deaths was 767 more than the 1944 excess while the difference between immigration and emigration was 604 in excess of the figures for 1944, making the total increase in the population 1,371 more than the figures for 1944.

Population densities per square mile were in respect of Trinidad 281, of Tobago 296, and of the colony as a whole 282.

There was an increase of 0.42 per thousand in the birth rate of 1945 compared with the preceding year, the total number of births registered being 21,616 of which 10,959 were boys and 10,657 girls. The birth rate per thousand was 39.15 in 1945 and 38.73 in 1944.

Still births registered during the year numbered 1,113 of which 509 were East Indians. The number of still births per thousand live births of the entire population was 51 as compared with 47 in 1944. There was a decrease of East Indian births in 1945—57 per thousand as compared with 68 in 1944.

The total number of deaths registered during 1945 was 7,959 of which 4,295 were males and 3,664 females. The death rate per thousand was 14.42 as compared with 14.89 in 1944.

Deaths from cancer numbered 229, compared with 249 in 1944.

The infantile mortality rate was 83.87 compared with 80.4, an increase of 3.47.

The following table gives a comparison of the total births, the number of deaths under one year and the infantile mortality rate for the past three years :--

Year	1 1 94	Total Births	No. of Births	Infantile Mortality
1943		20,210	under 1 year 1,884	93.22
1944		20,944	1,684	80.4
1945	3.0	21.616	1.813	83.87

#### SECTION IV-PUBLIC HEALTH

#### General and communicable diseases

The numbers of cases and deaths reported during the year from communicable and other diseases are shown in Tables I and III.

Injuries:

In Port-of-Spain more than ten per cent. of the cases admitted to the Colonial Hospital are injuries, if wounds and poisoning are included as well as accidents.

Mental Diseases

7. A total of 343 cases were admitted into general and mental hospitals during the year. Two hundred and eighty-nine cases were discharged. The commonest conditions were mania, confusional insanity, schizophrenia, delusional and secondary dementia. Fuller particulars are given under Section VIII.

Nutritional diseases and dental caries:

8. The returns from institutions give no indication of the prevalence of nutritional defects except in so far as they show that gross forms of food deficiency are met widespread.

A survey commenced by Dr. Platt and Dr. Vickers in 1944 and continued by the latter, by Dr. Waterlow, and by members of the staff (principally Dr. Gillespie, Dr. Abidh and, in antenatal cases and infants, by Dr. Waterman) showed that there is a widespread, if minor, deficiency of the vitamin B complex, calcidm and probably iron.

Dental caries is very prevalent. The majority of school children suffer, sometimes extensively, from caries. Fuller reports on the dental services are given in Section IVA, and on Nutrition in sub-section 5 of Section IVA.

General Diseases:

9. Probably the commonest general disease of economic importance is Tropical Ulcer. Large numbers are treated in district treatment centres which do not appear in the tables of this report and no doubt there are also large numbers who do not report for treatment.

The other commoner general diseases (excluding nutritional diseases) are hernia, malignant and benign tumours, appendicitis, eye affections and diabetes.

There is a local disease a form of spastic paralysis—the aetiology of which is not known, which deserves special attention. It resembles lathyrism in many ways but it cannot be specifically associated with a bean or a pea diet and some cases have shown considerable improvement on special hospital diet.

Communicable diseases:

10. The more important of the communicable diseases are named below :-

Chicken Pox

Helminthic Diseases

Leprosy

Malaria

Tuberculosis

Typhoid

Venereal Diseases

Whooping Cough

Yaws:

The incidence of notifiable disease is shown in Table II.

- 11. Chicken Pox occurs in the form of sporadic outbreaks from time to time. During the year it was particularly prevalent in Port-of-Spain where 122 cases were reported, 27 of them being from the local gaol.
- 12. Helminthic diseases are still common. Hookworm surveys were carried out in various places during the year, as shown in the table below:—

Ber Charles		Persons with								
County		Per	sons examined	Hookworm positive	Percentage Positive					
St. George			4,509	1,524	33.7 per cent					
Caroni			1,770	757	42.0 ,, ,,					
Victoria			8.839	2,553	28.7 ,, ,,					

- 13. Leprosy is dealt with more fully in Section IVA. One feature of interest is the results obtained with diazone, promin and preparations of the Vitamin B complex. Improvement in the general health was found with all three preparations, except that with the drugs there was occasionally a leprous reaction. In no instance did a bacteriologically positive case become negative.
- 14. Malaria is also dealt with in Section IVA. In addition to maintenance work some progress was made with the construction of seaheads and drainage. A beginning was also made with the experimental spraying of the inside walls of houses with D.D.T. The number of deaths reported as due to malaria during the year was 424.
- 15. Tuberculosis is still one of the major causes of death in the colony, 6.9 per cent. of all deaths being attributed to this disease. The total number of new cases reported during the year was 587 and the total number of deaths 556. Most of the cases met with are pulmonary. Of 314 cases admitted to the Colony Hospital, Port-of-Spain in 1945, 89 per cent. were pulmonary or laryngeal.

No observations were made on the type of the bacillus.

In-patients have still to be accommodated in special wards in the general hospitals, but early in the year the foundation stone of a sanatorium was laid. This building, which will be capable of extension, is expected to be ready for occupation in 1947 and will provide:

4 eighteen-bedded general wards; 8 four-bedded private rooms, 8 two-bedded private rooms and 8 single-bedded private rooms. Operating theatre with sterilising anaesthetic and preparation rooms annexed; X-ray rooms, dental clinic, clinic for staff, dispensary. The plan of the building provides for two additional two-stories wings which can be added at any time. The wings will provide 120-128 beds, making a total provision of 248-256 beds.

16. The Tuberculosis Association—charitable body subsidised by Government, continues to provide a clinic and staff in Port-of-Spain and to give milk, cod liver oil and other forms of assistance to necessitous cases. The total number of attendances at the Association's clinic was as follows:—

New attendances	 	 	449
Old attendances	 	 	2,432
Total	 	 	2,881

- 17. Typhoid continues to be endemic. No serious outbreak took place during the year. The most extensive one, in relation to the population was in Tobago, where 45 cases were reported. Here the probable source was stagnant which is sometimes used, especially by children, for drinking even in places where there is a piped water supply available. The total number of cases reported during the year was 511 and the number of deaths 111.
- 18. Venereal diseases are now, for the most part, treated by the Venereal Diseases Control Division, though some are still treated in hospitals and health offices. One of the main features of the work in 1945 was the extent to which penicillin was used in treatment. The total number of cases treated in all institutions during the year is shown in the table below:—

Terr	TREAT							
Type of Disease							Other Institutions	Total
			,					
Chancroid		***		***		137		137
ymphogranuloma venereum	***	***	***		***	194	1	194
onorrhoea	111	***	***	***		3,111	303	3,414
Franuloma Inguinale	***	***		***		81		81
Syphilis	111	***	***	***	***	4,733	225	4,958
Other	***	444	***	***	***	26	****	26
Total	***			***		8,282	528	8,810

The work of the Venereal Diseases Division is dealt with more fully in Section IVA.

- Whooping Cough outbreaks occur from time to time. The total number of cases reported during 1945 was 222.
- 20. Yaws continues to be a serious cause of invaliding. In Tobago, for example, it is estimated that about 40 per cent. of persons seeking public assistance suffer from disabilities attributable to, or complicated by, the late effects of yaws. The total number of cases reported for the year was 1,738.

Approval has been given to make provision in the 1946 estimates for a yaws control unit, consisting of two medical officers and two clerks with nursing and orderly staff seconded from other branches of the department. The unit, when formed, will be attached to the Venereal Diseases Control Division.

 The special divisions and services consist of the Leprosy, Malaria and Venereal Diseases Control Divisions, and the Dental Service.

#### The Leprosy Division.

22. The treatment centres consist of a Leprosarium on the island of Chacachacare, and seven clinics on the mainland of Trinidad. Cases reported, or suspected to be leprosy, are examined at the clinics and, if found infective, are transferred to the Leprosarium unless (as very rarely happens) they can be satisfactorily isolated in their homes.

Non-infective cases are kept under observation and, in suitable cases, treatment, at the clinic.

Cases requiring observation are kept for a time at one of the clinics (Cocorite) which provides observation wards.

Examination of contacts is carried out on a limited scale by two field nurses.

Staffs:

Dr. Ernest Muir, Medical Superintendent of the Leprosarium, completed his tour of service on 31st January and was replaced by Dr. George Campbell. (The strength of the staff at the end of the year is shown in Table IV).

The Leprosarium at Chacachacare continues to present administration difficulties. It has been necessary to transport no less than 3,200 tons of water from Port-of-Spain during the year.

The Surveys carried out indicate that accommodation for 200 to 300 infective cases may be required in the near future and, as the existing accommodation is already somewhat overcrowded by its 388 inmates, an extension of the settlement which is on a hilly and rocky island, can only be done at great expense, and the question of making the extension on the mainland will have to be considered.

There is reason to believe that the sense of confinement engendered by compulsory residence on a small island is having an adverse effect on the morale of the patients. There are, nevertheless, certain improvements.

Additions to the diet and medication with yeast, promin and diazone, have combined to bring about a general state of improvement reflected in a better appearance of the skin, less tendency to ulceration, improvement in weight and more cheerful dispositions. So far as any specification of the yeast or of the drugs is concerned, it is yet too early to make any comment.

#### Vital Statistics:

	Admissions,	Deaths,	Dis	char	ges.			
Total number of patients in	residence, 31	st Decen	nber	, 194	14			389
Number of new admissions d								
Neural	and the je	***	200	31				
Lepromatous				18				
Non-leprous		**		5	54			
Tron-seprous		**		0	0.1			
				-				
Number of re-admissions dur	ing the year							
Neural				20				
Lepromatous				9	29			83
				-	-			
Number of discharges during	the year:							
Neural	1			47				
Lepromatous				2				
Non leprous				5				
Private segregation	100	**		1	55			
Tilvate segregation		**		1	00			
				7	-			
Number of deaths during the	year:							
Males				13				
Females				16	29			84
				-	-	THE REAL PROPERTY.	11500	1000
Total number of patients in	residence on	31st Dec	emb	er 1	945			388
			CHIL		040	1000		
Estimated number of cases i	n the colony							1,500 to 1,800

Leprosy policy:
26. At present the law provides for the compulsory segregation of infective cases. A more comprehensive survey than is possible with the present staff would, it is believed, bring to light 50 per cent. or so more cases than are now on record. Any further attempt at stamping out the disease would therefore require much more accommodation and more attractive settlement conditions.

Towards the end of the year a committee was appointed to consider the financial and other implications of a comprehensive scheme of control. It is expected that this committee will report and make recommendations for a long term policy during 1946.

#### Malaria Division

27. The work of the joint programme of the Rockefeller Foundation and the Trinidad Government was continued under three heads, malaria studies, anopheline investigations and control

There was no epidemic of malaria in any part of the colony during the year and in general there seems to have been an appreciable fall in malaria transmission.

The number of deaths reported from malaria in 1945 was 418, as against 472 in 1944.

Three thousand five hundred and twenty-six children were examined for splenomegaly and 1,425 slides taken for parasite examinations. Spleen rates in all areas where control measures were executed showed an appreciable fall.

The slide diagnostic service referred to in previous reports was continued and 18,899 slides were examined. The results of the examination were as follows:

P. falciparum		 	3,872	(73.79% of positive cases)
P.vivax		 	1,164	(22.18% of positive cases)
P. malariae		 	190	( 3.62% of positive cases)
Mixed infections		 	19	( .3% of positive cases)
Parasite not diagno	osed	 	3	( .05% of positive cases)

Special treatment was carried out at 37 schools. Treatment centres were also operated in 26 field stations, mostly in Sangre Grande.

The malariologist reports as follows on field traps:

"Two important anophelines in the colony are A. aquasalia and A. bellator. A. bellator is not known to occur in the island of Tobago. Anopheline investigations were therefore largely confined to the study of the larvae and adults of the two mentioned species.

With A. aquasalis most of the adult studies were carried out by means of the Shannon Dawn trap. The Shannon Dawn trap is a two compartment structure bolted together, and was evolved by the late R. O. Shannon of the Rockefeller Foundation with the assistance of Mr. C. E. Newbold, former Anti-Malaria Engineer, Trinidad Government, and C.S.I. Jurawan of the Health Department, Trinidad Government. Its main purpose is to attract and trap the adult A. aquasalis during its flight in search for a blood meal. Previous observations had indicated that A. aquasalis was seemingly more zoophilic than androphillic; that it did not remain in houses but was actuated by an intense escape instinct in that may be termed a "pre-dawn activity"—that is where the first light of dawn was not visibly perceptible to an observer. It had also been noted that entry into houses occurred mianly in two invasion flights (1) between 6 and 8 p.m. and the other between 3 and 5 a.m. Having fed, the mosquitoes rest on the nearest convenient resting place and usually not above four feet from the ground.

In December, 1942, a two-compartment structure was built at El Socorro. This structure was divided into a stable compartment and a trap compartment. The stable compartment was 16' x 10' x 7' 6" and the trap compartment was 4' x 10' x 6". The structure was so situated that the trap compartment faced the east. Between the trap and the stable compartment there was a fixed entry panel in the lower part of the partition, 3 feet from the ground, the width of the opening to the trap being one inch to permit aquasalis to escape from the stable to the trap. On one side of the partition between the two compartments there was a small door to permit observers to move from one compartment to the other. The eastern wall of the trap compartment had in the centre a 1' 6" strip of 18 mesh screen wire and above and below the screen wire were two glass panels 1' 6" x 3'. The result was that the whole of the eastern wall of the trap compartment was freely accessible to light. In the stable compartment a door was fitted in the western end. On the northern and southern sides of this compartment and situated much nearer the western than the eastern end, two openings, 2' x 1½' were cut in the walls of the compartment, 2' below the plate. This experimental trap was first operated on Christmas morning, 1942, and it is interesting to recall the notes made at the time:

4.30 a.m. . . Stable compartment with hundreds of A. aquasalis resting quietly on the lower walls; a few not exceeding 20 in the trap compartment.

5.00 a.m. . . Dawn faintly perceptible; connection in the stable compartment; flying and buzzing increases, flight seems to be all directed towards the light.

5.30 a.m. . . Dawn light getting clearer; can just distinguish hand held up in front; connection in the stable still great. A large number of anophelines in trap compartment trying to pierce the screen and glass at eastern end.

6.00 a.m. . . Dawn light penetrates into stable. No more than a hundred anophelines in stable compartment. Eastern wall of trap covered with mosquitoes.

6.30 a.m. . . Daylight; quietness in both stable and trap compartments. Only 12 aquasalis recovered in stable compartment; 1,251 recovered in trap compartment.

This experiment was repeated on several occasions with similar results and from that day it may be said that the Shannon Dawn Trap was evolved. The trap as finally elaborated consists of a portable stable and trap compartment bolted together with a roof for the stable compartment.

Materials used in construction are ply-wood or plain sheet galvanize for the walls the cover being a wooden frame covered with plain sheet galvanize. The eastern end of the trap compartment is of 18 mesh mosquito screen reinforced with half inch galvanize chicken wire. The trap compartment is a single unit 3' 6" x 3' 6" x 6' with a 6" slope and having a small door on one side to permit a field assistant to enter. On the side to be attached to the stable compartment, 9" from the ground, is a rectangular opening 3' wide, 2' 6" high, 18" deep, into which is fitted a screen with a 12 entry to the trap. The top and bottom of this screen is covered with 18 mesh wire. The stable compartment is made up to three bolted walls with an easily removable one-piece hood. In operation the trap and the stable compartments are bolted together. The assembling of the whole unit does not take more than an hour. No floor is as a rule provided but if the trap is located in marshy ground, flooring planks can readily be made available.

The dimensions of the stable compartments are 4' x 6' x 8' 6". The hood is 5' wide x 9' long permitting a projection of 6" all around the stable compartment. The depth of this hood is such that it extends to 6" below the plate of the stable compartment, thereby permitting entry on all sides and at the same time excluding as much light as possible from the stable.

This trap has been the standard trap used in the colony but use has also been made of the Magoon trap and a modified Magoon or 'sampler' trap as we term it here.

The Magoon trap as used in Trinidad is a one compartment structure 6' 6" x 3' 4" x 6' 10" high, sloping 45°. A door is situated at one end through which bait is introduced and attendants enter and leave. The resultant escape of mosquitoes is therefore greater than in the Dawn trap. All sides of this structure are boarded up to a height of 3' 6" from the ground. At this point an entry is provided and on all sides there is a small opening made of wooden flaps; the outer width being 6", the internal width being 1" with a depth of 5". Above the entry 18 mesh wire is placed.

The 'Sampler' trap is also a one compartment trap of the same size as the Magoon trap with two important modifications.

- A larger opening situated 4' 2" above the ground with the following dimensions:—
   Outside opening 2"; inside opening 1" depth 1' 4". The depth of this opening is
   made of 18 mesh wire instead of wood.
- A ventilation screen in the middle of the front side of the structure is 2'6" x 18". The
  entire structure is completely boarded up except, of course, for the entry screen
  and the ventilation screen.

From May to October, 1945, a Magoon, a Sampler and a Shannon trap were operated side by side and the following capture figures for A. aquasalis are given:—

		May	June	July	August	September	October
Magoon	 	8,487	41,079	17,552	2,439	1,948	1,261
Sampler	 	11,924	17,454	15,811		6,634	2,743
Dawn	 	23,702	83,375	92.675	71.874	24.154	21.131

From these figures it seems that the efficiency of the Shannon Dawn trap against A. aquasalis is beyond question, but further experiments are continuing to certify same.

Larval surveys and experiments to determine the optimum breeding conditions of A. aquasalis were also undertaken.

Effective control measures were conducted at Cocorite, Piarco, Blanchisseuse, Maracas, County St. David and many areas.

Reports on the spraying with D.D.T. against A. aquasalis and with copper sulphate against A. bellator are attached as appendices to the report. The complete report of the Malariologist is being published separately.

#### Venereal Disease Control Division.

28. The Co-operative Veneral Diseases Control programme, complete with all sections as originally planned, was successfully established by Lt.-Colonel O. C. Wenger, United States Adviser on Veneral Diseases Control with the help of the combined United States and British Staff, and continued in operation throughout the year with sustained support from the general public.

The active participation of the United States ended June, 1945, with the cessation of the United States contribution to the cost of the programme and the withdrawal of the United States Public Health Service staff, except Miss Nelle Stancil, whose services were retained as director of the Nursing Service, with the approval of the United States Public Health Service.

The total United States Public Health Service staff in 1945 consisted of: The Director, Lt.-Colonel O. C. Wenger, six medical officers, 4 supervising nurses, one administrative assistant, two laboratory technicians and one dietitian.

On the departure of the U.S. Public Health Service staff, the programme was taken over by the Health Department and carried on by the staff recruited by the local government.

The shortage of qualified medical help was acute but was relieved somewhat by the addition to the staff, during the latter part of the year, of the director of the laboratory, two full-time contract medical officers, two part-time medical officers even though one full-time medical officer resigned and one part-time medical officer died during this period.

At the end of the year the staff consisted of :

The V.D. Specialist, Medical Officer in charge

The Director of Laboratory 2 contract medical officers 1 part-time medical officer. 1 Director of Nurses

Nursing:

6 Ward Sisters 20 Staff Nurses 5 Nurses' Aides 6 Medical Orderlies

1 Follow-up Worker. 53 officers including 1 radiographer-electrician, 2 X-ray technicians, 6 laboratory Other: technicians, 1 accountant, 1 chief statistician, 1 assistant statistician, 1 secretary and a clercial staff of 16; 1 printer-technician, 1 housekeeper and 23 miscellaneous workers.

At the Caribbean Medical Centre, headquarters of the programme, in addition to the central administrative offices, central diagnostic clinic, hospital and laboratory, there were established:

A. The screening clinic at which a blood test for syphilis, a miniature X-ray of the chest and a physical inspection were offered to the general public free of charge. This relieved the congestion of the diagnostic clinic and was an effective means of finding cases of venereal disease as well as tuberculosis.

B. The epidemiological section to perform the important work of the investigation of contacts and follow-up of delinquents.

In addition to the six field clinics at Maraval, San Juan, Tacarigua, Arima, Sangre Grande and Chaguanas, three more were established during the year at Rio Claro, Princes Town and San Fernando.

The treatment with penicillin of syphilis and gonorrhoea was introduced, and full use was made of the accommodation of the rapid treatment hospital of 88 beds to which 2,656 patients were admitted during the period April to December, 1945.

The work of the Photofluorographic Unit was continued and 18,416 miniature X-ray films were taken:

The training of personnel employed by the Venereal Diseases programme was completed. A special tribute is due to the four senior nurses of the United States Public Health Service who were indefatigable in their efforts to train the local nurses and raise the efficiency of the nursing department to a maximum. The capability with which the local nurses carried out their assistance is evidence of their success and a just reward for their efforts.

The training of nurses and laboratory technicians, including candidates from St. Lucia, Dominica, Grenada, British Guiana and British Honduras was successfully undertaken.

The education of the general public in the veneral diseases was continued by means of lectures, film shows and pamphlets; and specific education of the patients, with venereal disease was introduced. This consisted of personal interviews and daily film shows to the patients.

40,024 persons had their blood tests done for the first time. 25.8% were found to be positive.

28,732 persons applied to the clinics of the programme for attention. 9,764 new cases were put under treatment and included 1,482 cases of yaws. The clinics recorded a total attendance of 162,042—an average of 512 patients a day, six days a week, throughout the year. These numbers are unprecedented in the history of Venereal Diseases control in the Colony.

percel Diseases Control Programma Clinical Activities 1045

THE ACTIONOR	Tracesco Ci	DITTE OF	* toPremme	CHILICAL	Programmes,	TO	eu.
Total Applicants				70.			28,732
Total New Venereal I	Diseases cas	es					8,282
Syphilis					4,733		3
Gonorrhoea					3,111		
Chancroid					137		
Lymphogranulon	na venereur				194		
Granuloma ingui	inale				81		
Other					26		
Total New Cases Yaw	vs					-	1,482
Total Attendances	3.0						162,042
	The second second	7.5		0.000	1000	1000	



#### The Dental Service.

29. At the beginning of 1945 there were four part-time dental surgeons on the staff; they worked independently of each other and were not formed into a service.

In June, 1945, a senior dental surgeon was appointed and placed in charge of the dental service. The service as now organised, is primarily for the benefit of school children, but extractions are also undertaken for poor patients.

At the end of the year there was, in addition to the senior dental surgeon, two part-time surgeons in Port-of-Spain, one part-time surgeon in San Fernando, and one part-time surgeon in Tobago. This staff can deal only with a fraction of the children of school age, who number considerably over 120,000.

#### Work on Nutrition.

- 30. The nutrition work for the year fell under four heads:
  - (i) Surveys
  - (ii) Experimental
  - (iii) Advisory
  - (iv) Educational

#### (i) Survey:

This work was started by Dr. Vickers as a result of Dr. B. S. Platt's visit to the Colony at the end of 1944. The survey includes a clinical survey carried out by Dr. Abidh on some 2,000 school children, and a precise dietary survey carried out by four public health nurses under the instruction of the nutritionist. The object of the survey was to try to correlate some of the clinical signs of mal-nutrition with actual dietary deficiencies. The school children examined represented both the rural and urban communities and the different industries of the colony. The dietary survey followed the clinical survey, the families being chosen through children showing the largest number of signs of mal-nutrition. About 273 dietary histories were collected in 1945, which are still being analysed. The adults and children of the families taking part in the dietary survey have also been clinically examined.

(ii) Experimental:

(a) Powdered skimmed milk. A controlled skimmed milk feeding experiment was started in June 1945. One hundred children, random sample, were clinically examined, weighed and measured; fifty of these children were given 2 ozs. skimmed milk powder daily, and the other fifty kept as controls. Both groups were re-examined at regular intervals. After four months the clinical examination showed definite improvement in some of the skin conditions. It was therefore decided to extend the experiment, and at the same time to make a comparison of the effect of feeding fresh cows' milk and dried skimmed milk. All these experiments are continuing at the present time.

The families showing clinically advanced signs of mal-nutrition are also being given skimmed milk and the members are being kept under observation, and changes in the conditions recorded.

#### (iii) Advisory :

- (a) New diet sheets have been drawn up for the Colonial Hospital, Port-of-Spain. These diets have been adapted for use at St. Ann's Mental Hospital and the House of Refuge.
- (b) The catering at Chacachacare was investigated and recommendations made with regard to equipment, organisation, distribution of stores. &c.
- (c) The diet at the orphanges and industrial homes were investigated, new diet scales laid down, and certain recommendations made.
- (d) Advice was also given on the layout for the new kitchens of the Colonial Hospital, Port-of-Spain, the nurses' hostels, Port-of-Spain and San Fernando and the Tuberculosis Sanatorium.

#### (iv) Educational:

#### (a) Demonstrations:

Miss Horne, the cookery demonstrator, has carried out intensive cookery campaigns in Toco and Caroni; she has also continued her weekly classes at Tunapuna and Arima and has started an evening class for office workers in Port-of-Spain. In these demonstrations nutrition has been put over in a practical form, for instance, the correct cooking of vegetables, salad making, tomato bottling, the use of pulse vegetables, and the preparation of fresh fruit syrup have all been demonstrated repeatedly, and the food value of these foods stressed.

After leaving a district, new recipes have been sent to keep the interest alive. In all districts, Miss Horne has tried to make one of the women responsible for continuing the campaign.

#### SECTION V-HYGIENE AND SANITATION

#### 1. Preventive Measures.

Mosquito and insect borne diseases:

31. Acides control measures were maintained at the airports. The position in the larger town and in villages still continues to be unsatisfactory.

Anopheline control is dealt with in Section IVA.

## Rabies Control:

No cases of human rabies were reported. The rabies unit consisting of ten inspectors and one attendant destroyed 902 Desmodus rufus bats in routine checks on known roosts and in new roosts discovered. No bats were found infected on examination.

#### 2. General measures of sanitation

(a) Water Supplies:

32. The Central Water Distributing Authority deliver water of a satisfactory standard of purity in the areas served by them. The supply of the whole country, however, is not satisfactory, as many areas still depend on stored rain water, shallow wells and ponds. The whole island has been surveyed with a view to extensions of the existing mains and provision of satisfactory small local supplies. This work continued to be hampered by shortage of materials. Work continued on the new dam at Caura and wells were sunk by the Hydraulics Department at Valsayn and certain places in the south.

Extensions of the piped water supply were made at La Brea-Point Fortin, Diego Martin-Carenage, Mallick and the O'Meara Malabar districts.

The Central Board of Health reviewed the water supply of Port-of-Spain and recommended that the Maraval source of supply which is liable to gross pollution, be replaced as soon as possible by an alternative source.

#### (b) Sewage control:

There was nothing special to report. Extension of a water-borne system to the eastern section of Port-of-Spain depends on an increased water supply and materials.

The same applies to the Borough of San Fernando while the rapidly growing townships of San Juan, St. Joseph, and St. Augustine will in time need a water borne system. Numerous private septic tanks were built and the Planning and Housing Commission includes a water borne system in its housing scheme.

In rural areas 386 individual septic tanks were constructed. Much remains, however, to be done to improve the system of conservancy.

(c) Scavenging is still far from satisfactory in both rural and urban areas and, when the transport situation is easier it will be necessary to consider a reorganisation of most of the services.

#### 3. School Hygiene.

33. The staff of school medical officers of health was further depleted by the resignation of Dr. Caroline Ramessar in April. The only other remaining school medical officer, Dr. Hoahing, continued to work in the southern division.

School medical inspection in the Colony was carried out in 33 schools—a total of 16,389 children being examined. Nurses' visits to homes of sick children numbered 373.

Owing to depleted staff, the school medical service is still very unsatisfactory. As in previous years, dental caries was very prevalent. There is need for the employment of more dentists and the development of conservative work in school children.

The infestation of school children with hookworm continues to be high in the rual areas. The campaign aaginst this disease was continued—more talks were given to householders to use latrines and more intensive treatment carried out.

#### Meals for school children.

Hot mid-day meals were supplied through the Coterie of Social Workers and the St. Vincent de Paul Society to necessitous children in Port-of-Spain. In the Borough of San Fernando, the Coterie of Social Workers continues to perform a similar service. A hot meal service for children in most of the country schools was also begun.

The Education Department continued to provide pasteurised milk in Port-of-Spain and the area of compulsory education adjoining Port-of-Spain to undernourished children.

Work on a nutrition survey was continued. This included a clinical survey carried out by Dr. Abidh on some 2,000 school children and a precise dietary survey carried out by four public health nurses under the direction of the Nutritionist. The object of the survey was to try to correlate some of the clinical signs of mal-nutrition with actual dietary deficiencies. The school children examined represented both the rural and urban communities and the different industries of the Colony.

#### 4. Measures taken to Spread the knowledge of Hygiene and Sanitation.

34. In schools this is achieved by means of special lectures by teachers, the institution of sanitary squads and special lectures given by school medical officers, sanitary inspectors and school and district nurses. In towns and villages it is carried out by means of talks by members of the hookworm unit and lectures by the malariologist and medical officers of health.

The medical staff of the department also lectures to classes of the Red Cross Society and other groups, on request. Health films are also shown. Talks were given to various groups of housewives. In County Caroni, Chaguanas and Charlie Village an appeal was made for voluntary workers who were subsequently instructed in measures for the prevention of hookworm, malaria, social diseases and the control of fly breeding.

The Health Education Officer returned from study leave towards the end of September. His services will be utilised in intensive propaganda in the villages where special campaigns are being undertaken under the direction of the Medical Officers of Health.

#### 5. Labour Conditions.

35. Agriculturists still complain of the shortage of labour for work on the land. On the other hand, there appeared to be a growing number of unemployed in the city. Rehabilitation and re-settlement schemes were considered and advice given on the suitability of proposed settlements from the health point of view.

#### 6. Housing.

36. The acute housing shortage continued particularly in the towns. The Planning and Housing Commission erected 745 new houses at Morvant, 402 were erected at Navet and Mon Repos while 20 new ones were built at Siparia.

Private enterprise.

The Local Health Authorities approved of 70 applications for the parcellation of land into building lots. 1,230 buildings were erected and many were repaired. 340 septic tanks were built. The shortage of essential building materials continued. A new brick factory was opened at Oropouche.

#### 7. Food in relation to Health and Disease.

37. No major outbreak of food poisoning occurred during the year. There was a fair response to the "Grow More Food" campaign and ground vegetables were in fair supply. There was a shortage of rice and English potatoes were often not obtainable. No rationing system was in force but supplies were distributed to shopkeepers for retail consumption. The prices of foodstuffs were controlled but this did not prevent the development of "Black Market".

#### SECTION VI-PORT HEALTH WORK AND ADMINISTRATION.

38. During the year there was no case of infectious disease scheduled for quarantine purposes under the International Sanitary Convention.

Persons inspected on arrival numbered 30,506 of whom 2,396 were passengers and 28,110 crew. No persons were kept under surveillance.

Four hundred and sixty-six persons arriving from foreign parts, principally Venezuela, were vaccinated, as compared with 548 in 1944.

Nine vessels were fumigated for quarantine purposes as compared with three in 1944.

Nine deratization and 38 deratization exemption certificates were issued.

#### SECTION VII-MATERNITY AND CHILD WELFARE SERVICES.

39. The Colonial Hospitals, Port-of-Spain and San Fernando, possess maternity departments. Admissions to the Port-of-Spain Hospital were 2,631 with 1,796 deliveries while 275 women were delivered in their homes by the District Midwifery Department. In San Fernando, 1,543 cases were admitted to the Maternity Ward. Maternity cases are also admitted to the Colonial Hospital, Tobago, and the St. Joseph, Arima, Couva, Princes Town and Cedros District Hospitals.

Attendances at the ante natal clinic were as follows:

The infantile mortality rate was 83.87 compared with 80.4 in 1944-an increase of 3.47.

#### SECTION VIII-HOSPITALS AND DISPENSARIES.

39. The Colony possesses three Government Colonial Hospitals, situated at Port-of-Spain, San Fernando and Scarborough, Tobago. There are six district hospitals and two emergency hospitals.

Colonial Hospitals:

At Port-of-Spain the senior nursing sister's new quarters were occupied; the new mortuary, the new out-patient administration and kitchen block and the nurses' hostel should be ready for use in 1946.

At San Fernando the nurses' hostel is being erected. The plan for the new Tobago hospital has been prepared.

The training of nurses, midwives and druggists was continued. The number of nurses who passed their examinations during the year were as follows:

			15	t year	2nd year	3rd year	4th year	Midwifery
Port-of-Spain				30	16	13	16	19
San Fernando				14	14	10	15	5
The number of d	lenamiete	under te	ining d	meine th		e fallows .		

The number of druggists under training during the year was as follows:

Shortage of staff has made teaching difficult in the case of druggists as well as nurses.

The daily average of persons in institutions was as follows:

Port-of-Spain			 	460
San Fernando	1000		 ***	335
Mental Hospital				986
House of Refuge			 	560
Scarborough		1000	 	50
Leprosarium			 *	392

Colonial Hospital, Port-of-Spain:

40. Twelve thousand nine hundred and sixty-three patients were admitted and a total of 913,391 patients treated in the wards during the year. Of these 12,003 were discharged and 971 died. The largest number of patients in hospital was 498 and the smallest number 419.

The attendance at the out-patient clinics were as follows:

	1943	1944	1945
Department of Radiology	 7,049	6,900	10,149
Department of Physic therapy	 8,459	9,086	7,934
Casualty department	 13,120	14,319	13,324
Surgical clinic (male)	 528	652	542
Surgical clinic (female)	 246	335	331
Gynaecological clinic	 1,856	1,624	473
Ear, nose and throat clinic	 2,068	2,084	2,280
Ante natal clinic	 9,837	12,666	11,405
Post natal clinic	 1,206	2,019	2,371
Dental clinic	 	6,266	6,149
Urological clinic	 600	730	262°

<sup>\*</sup>The urological clinic was closed down for part of the year and this explains the low figure for the year.

In addition, a total of 410 patients were treated at the Diabetic out-patient clinic during the year.

Maternity department: This was well attended and the ward always overcrowded. One thousand seven hundred and ninety-six women were delivered in hospital and only 275 at their homes. There were 296 abortions and 210 operations were performed. There were 166 still births and 60 new born infants died in hospital. There were 35 cases of twins and two of triplets.

Massage and electrotherapy: 582 patients were treated. The number of massage treatments was 5,549, electrical 2,385 and ultra violet ray 62. The work had to be limited owing to shortage of staff and absence of the senior nursing sister.

Radiological Department: The work in this department continues to increase. Eight thousand three hundred and eight patients were radiographed, involving 15,232 exposures. One hundred and fifty-two patients (1,126 treatments) received X-ray therapy.

Dental department: Of 7,277 extractions done 3,426 were in children. Three hundred and eleven fillings were done in children. The demand for dental treatment continues to increase. The work must be limited according to the staff available and priority must be given to the children.

Dispensing Department: The training of students was very much handicapped by the shortage of staff. The time has arrived for establishing the training of dispensers on a sound basis, or in other words, establishing a school of dispensing with an authorised lecturer or lecturers and demonstrators.

The following is a summary of cases treated:

Operations	 	 	2,151
X-ray examinations	 	 	8,308
X-ray therapy	 	 	152
Maternity	 	 	2,631
Communicable diseases		 	1,266
Malignant diseases	 	 	155
General diseases	 	 	11,542

#### Colonial Hospital, San Fernando:

41. Eight thousand two hundred and seventy-nine patients were treated in the wards. Of these 7,358 were discharged and 607 died. The largest daily number in hospital was 386 and the smallest 279.

Maternity Department: As in Port-of-Spain the ward was always overcrowded. One thousand five hundred and forty-three patients were admitted to the wards. Five hundred and four women were delivered in hospital. There were 28 operations. Seventy-nine infants were still born.

The following is a summary of the cases treated:

Operations	 		 2,098
Maternity	 **		 1,543
Communicable diseases	 	**	 1,104
Malignant diseases	 		 5 507

#### Colonial Hospital, Tobago:

42. The chief diseases treated were :

Disease				No. trea	ted Deaths.
Malaria				102	5
Tuberculosis	3	100		29	4
Yaws				35	0
Syphilis				27	1
Gonorrhoea			2.	24	0
Heart diseas	se	1		23	2
Pneumonia			2.	58	5
Nephritis				28	0

The total number of cases treated was 1,643. Of these 51 died. The daily average number of patients was 50. The largest number in hospital on any day was 61 and the smallest 36.

43. The following operations were performed at the Colonial Hospitals, Port-of-Spain and San Fernando.

		1	Port-of-Spain	San Fernando
General	**	***	1,305	1,191
Gynaecological		**	241	254
Urological			129	114
Ear, nose and throat			256	316
Obstetrical			220	28
Ophthalmological	***			195
			2,151	2,098
				-

#### St. Ann's Mental Hospital.

44. The general accommodation of this hospital continued to be inadequate as for years past. The average number of patients resident was 986, being 54 more than the previous year. The hospital properly accommodates about 700.

The main buildings were in good condition generally. A new and large workshop was completed and work on a new laundry and isolation ward far advanced. About four acres of land was cultivated for vegetables.

The water supply was satisfactory throughout the year. The main sewer again gave trouble during the year, difficult chokes occurring leading to sewage overflowing on the grounds.

The dietary is ample but lacks variety. It is also possible that there is a lack of vitamins. Revision of the dietary to improve both these matters was proceeding at the year's end. There are no gross signs of vitamin lack in the patients but minor degress of Vitamin B1 and B2 deficiency appear. All patients are weighed monthly. The great majority gain weight. Each case of loss of weight is considered to arrive at the cause.

The institution was overcrowded as usual during the year, the average number of patients resident being 986. There were 123 patients over the age of 60. Pulmonary tuberculosis caused 31 deaths compared with nine in 1944 and 24 in 1943.

Both bacillary and amoebic dysentery occur in the institution, five deaths were due to dysentery as against nine in the previous year. Two deaths were attributed to colitis.

One thousand three hundred and ten persons came under care during the year, being 78 more than last year. One hundred and eleven deaths occurred compared with 85 in 1944 and 160 in 1943.

Three hundred and forty-three persons were admitted during the year. Voluntary admissions were 12, temporary treatment certificates 21, certified insane by a magistrate 308, criminal lunatics 2.

Confusional states accounted for 89 admissions. Various forms of mania and melancholia accounted for 67; 57 cases were schizophrenic and secondary and senile dementia caused 41 admissions.

One hundred and sixty-five persons recovered and were discharged during the year. Fifty-six admissions had previously been admitted to the institution one or more times.

Electric shock theraphy was started in the last quarter of the year. Twenty-nine cases were treated, of whom nine recovered and were discharged, ten showed marked improvement and 10 showed no improvement. This treatment holds much promise for selected cases.

Two cases were also successfully treated by the induction of artificial fever with the electric hypertherm.

#### SECTION IX-LABORATORY SERVICES.

45. The following is an abstract from the report of the Senior Pathologist :-

#### Routine examination:

A total of six thousand, three hundred and fifty-four specimens were received and six thousand, six hundred and twenty-five examinations done. In addition, one thousand, one hundred and sixty-seven samples of water, collected from various parts of the colony were examined. Forty thousand and seventy-five c.c. doses of vaccine were prepared and issued during the year under review.

Six hundred and ninety-seven bats were also examined for negri bodies. Fourteen thousand, nine hundred and twenty-four rats were examined naked eye, for evidence of plague. The nature of some specimens is here given.

		Positive	Negative	Total
Sputum for Tuberculosis		56	437	493
Swabs for Diphtheria		28	145	173
Blood for agglutination				
against B. tvphosus	100	328	669	997

# Syphilis:

Four thousand one hundred and twenty-one samples of blood were submitted to the Kahn test. One thousand and eighty-six were positive and three thousand and thirty-five were negative.

Three hundred and thirty-two samples of blood were submitted to the Kline test. One hundred and nineteen were positive and two hundred and thirteen were negative.

#### Ankylostomiasis:

Six hundred and ten samples of faeces were examined for ova of hookworm. One hundred and twenty-one were positive and four hundred and eighty-six were negative.

Amoeba histolytica:

Three hundred and seventy-two samples of faeces were examined for amoeba. Sixty-nine were positive and three hundred and three were negative.

Gonorrhoea:

Seven hundred and forty-seven specimens of urethral and prostatic discharges were submitted to smear or culture for the detection of gonorrhoea. One hundred and sixty were positive and six hundred and eighty-seven were negative.

Leprosy :

Eleven scrapings from skin lesions and nose swabs were examined for B. leprae, all were negative.

Complete Blood Counts:

Three hundred and seventy-seven complete blood counts were done.

Blood

Thirteen samples of blood were examined for erythrocyte sedimentation rate.

Partial and differential counts:

One hundred and forty-six partial and differential counts were done.

B. typhosus in faeces :

One hundred and ninety-six samples of faeces were plated to detect the presence of B. typhosus. Ten were positive and one hundred and eighty-six were negative.

Bacillary dysentery:

One hundred and nineteen samples of faeces were plated for B. dysenteriae.

Seventeen were positive and one hundred and two were negative.

### Biochemical Examinations

Blood:

One hundred and fifty-six samples of blood were sent for the percentage of urea to be estimated. Percentage of glucose was estimated in one hundred and fifty-six samples of blood.

Cholesterol was estimated in sixteen samples of blood.

Plasma proteins were estimated in twenty-six samples of blood.

Three hundred and twenty-one samples of blood and urine were sent or collected and glucose tolerance tests were performed.

Gastric Juice:

Fractional test meals were done on 344 serial samples of gastric juice.

Cerebro-spinal fluid:

One hundred and sixty-one samples of cerebro-spinal fluid were examined.

Fifty-two samples of blood were sent and the Van den Berg test was performed. Sixteen were negative and 34 were positive.

Blood calcium was estimated in five samples of blood.

Sections

One hundred sections (histological) were sent to be examined.

Urine :

Two hundred and eight samples of urine were examined completely and three hundred and eleven were sent for partial examination.

The Freidman modification of Aschiem Zondek test was done on sixty-six samples of urine. Thirty were positive and thirty-six were negative.

Faeces:

Seventy-four samples of faeces were examined for occult blood. Fifty-one were negative and twenty-three were positive.

Semen :

One specimen of seminal fluid was examined to determine fertility.

Basal metabolic rate:

One basal metabolic rate was determined.

Blood: One hippuric liver function test was done.

Facces: One hundred and eighty specimens of facces were examined for protozoa and ova, none showed any protozoa.

Acid and alkaline phosphatase estimation was done on two samples of blood.

Rats Examined

The number of rats examined, naked-eye for evidence of plague totalled fourteen thousand nine hundred and twenty-four, as here shown:

and the same of the same of		L	ecamanus	Rattus	Total
Males	1.5		4,453	2,228	6,681
Females			5,181	3,062	8,243
Total	l:		9,634	5,290	14,924

#### Summary of Bats caught and examined for Negri Bodies.

Desmodus				 	471
Artibeus			1	 	140
Hermiderma				 	49
Mollosus				 	4
Total			1100	 	664
Total number for	und with	negri bo	odies	 	Nil.

#### Vaccine

A total of forty thousand and seventy-five c.c. doses were prepared and issued during the year under review.

- Typhoid vaccine:—Thirty-five thousand two hundred c.c. doses were prepared and issued for use throughout the colony and other West Indian Islands.
- Gonococcal:—Four thousand two hundred c.c. doses were prepared and issued to Government Medical Officers and private practitioners.
- Anti-rabies vaccine: —Two hundred and twenty-five c.c. doses were prepared for human
  use as a prophylactic in the anit-rabies campaign.
- Other vaccines:—Four hundred and fifty c.c. doses of autogenous vaccine from various sources were also prepared and issued.

#### Water Samples.

There was a total of one thousand one hundred and sixty seven samples of water examined from the city of Port-of-Spain and rural districts. Of this number one hundred and eighty-one were condemned as unsafe for human consumption.

The practice of examining daily a 100 c.c. sample of the mixed water supplies of Port-of-Spain for fermentation reaction was continued throughout the year.

#### TABLE I.

Principa	1 causes	or de	aths for th	e years	1944 and	1840.		1944	1945
Diseases of early infar	ncy			***	***		***	920	937
Old Age			***					469	575
Diarrhoea and enterit	tis	***	***	***		***	***	517	413
Cardiac and valvular	diseases	***	***	***		***		751	568
Malaria	***		100	***		***	***	472	424
Pulmonary tuberculos	sis	***	***	***		***	***	552	556
Nephritis	***	***	1000	100		***	***	401	402
Bronchitis	***	***	***	***	***	***	444	287	372
Cerebral haemorrhage	and apo	plexy		***	***	***	***	257	274
Broncho pneumonia						***	***	210	250
Lobar pneumonia	***		***	***				130	130
Pneumonia (not other	wise defi	ned)		***	***	***		95	75
Cancer		***			***	***		249	229
Enteric fever			***	***	***			92	111
Syphilis	***	***	***	***	***	***	***	112	78
Diseases of the puerp	eral state				"		***	133	122
Dysentery		***	***	***	***		***	56	47
Ankylostomiasis	***					***		72	67
Infantile convulsions	***	***	***	***	444	***		36	41
Influenza	***	***	***		***	***	***	7	14
Other causes	***	***	***	***	***		***	2,236	2,274
								8,054	7,959

#### TABLE II.

			TABL	E 11.					
P	revalence of	notifia	ble infecti	ous diseas	es duri	ng 1944 an	d 194		1
								1944	1945
Enteric fever	***	434	***	***	***	***		473	511
Pneumonia	200		***	***	***	***	***	632	580
Pulmonary tuber		***	***	***	***	***		518	381
Tuberculosis (oth	er forms)	***	***	***	***	***	***	40	17
Diphtheria	***	224	111	***	***	***	***	35	25
Ophthalmia neon	atorum	****	***	***	***	***	***	161	79
Chicken Pox		222	***	***	***	***	***	118	254
Acute Anterior P		***	***	***	211	***	***	4	9
Puerperal Pyrexi		***	***	***	***	***	***	24	38
Cerebro-spinal fe	ver	***	***	***	***	***	***	2	2
Encephalitis		***	***	***		***	***	-	2
	6.	-			-				
	Othe	r Com	munica ble	Diseases	(Non-n	otifiable)			
Malaria	***	***		***	***		***	12,356	9,455
Dysentery	***	***		****	***	***		658	484
Influenza	100	***	***	***	***	***		1,912	2,530
Ankylostomiasis	****	***	***	***	***	***		5,202	9,437
Whooping Cough	***	***	***	***	***	***	***	85	222
Measles	***	***	444	***	***	***		25	25

					TABL	EI					
		Gene	eral dise	ases tre	ated in	hos	pitals, 1944	and 1945	5.		
							1944			1945	
40	P-14-1-1-			41		A	dmissions	Deaths	Admissi	2000	
	Epidemic, en				ses	***	2,971	435	3,2	20	442
	General disea Cancer	ses not men	troned i				199	48	2	66	60
	Tumors (non		***				56	6	2000	79	
	Rheumatism		***			****	83	2	1	14	4
	Deficiency di	seases	***			***	79	9		65	13
	Diabetes	***	***			***	194	37		66	32
	Anaemias Diseases of d	netless clan	de		**	***	118	23		98 29	7 2
	Alcoholism	action Sinn	ds			***	39	_		15	-
	Poisoning					-	9	-		12	1
	Other general		***			***	92	6		70	9
	Affections of					***	1,568	110	1,7		126
	Affections of Affections of					***	1,316	213 138	1,1	11	207 154
	Affections of					***	2,449	144	2,8		130
	Affections of					1000					
	(non vener	eal)	1000				3,644	100	3,9		126
	Puerperal aff						4,729	93	4,4		83
	Diseases of th				motion	***	920	22	1,5	73	40
-	Other than	tuberculos		or loco		****	235	3	2	64	9
XI.	Malformation						28	2		41	2
XII.	Diseases of I						609	173	1.0		184
	Affections of					***	146	48		09	52
	Affections pr				-	***	2,112 378	85	3,1	56 83	52
	Ill-defined di Diseases the					***	3/0			00	66
-	10 deaths	total of will	an mod E	- CACE		***	82	4		80	1
						***		-	0.000		-
							23,029	1,711	26,0	67	1,802
							Resident Co.	-	-	-	-
					TABL	P II	,				
		NA						ntal Warm	H-11- 104		21048
	Showing con	ditions for v	vnien pa	tients w	ere a u	mirre	rorne me	nual Hosp			
A	cute mania									1944	1945
	ania		***	****	***					400	44
	anic depressi		***	***	***					-	5
M	elancholia an	d states of		on	***					16	9
	volutional m		***	***	***						2
	gitated melar		***	***	***		***			00	99
	onfusional ins chizophrenia		77	***	***					20	
	ebephrenia	***			***						1
	elusional			***	***					075	32
P	aranoia	***	***	***	***			. ,,			2
	pilepsy		***	***	***					5	8
	eurperal insa			***	***					0	5
	eneral paraly erebral syphil		sane	***	***						6
	lcholism				***					10	8
K	orsakoff's ps	ychosis									1
	econdary den		***	***	***					40	29
-	enile dementi	a	***	***	***		***			0	12
	lental defect lysteria	***	***	***						0	8
	nxiety neuros	sis	***	***							1
	bsessional ne		***	***							2
N	eurasthenia		***	***	***						2
- 20	ot insane	***	***	***	***					3	3
U	ndiagnosed	***	***	***	***		***		-	_	1
	7	otal								345	343
	Marin St.	1000	70	3000			Contract St			_	-
					TABL	R V.					
	Chami	ing causes of	doothe	of natio		2000	the Mente	Hosnita !	during 19	45	
	Notifiable Inf			Or burne	into uy	rug m	one mensa.	Hoopiva	dutting 10		
-		y tuberculos						***	***		31
		a (all forms)				***		***	***	***	7
	Enteric fe		***			***			***	***	2
Λ	lon-notifiable	infectious d	iseases :								162 1
	Dysentery		***				100	***	***		5
	Syphilis					***	***	***	***	***	8
. 0	ther diseases										00
	400	scular disea				***	***	***	***	***	20
		y embolism	***		**	-	***	***	***	***	1 2
	Acute nep		***							***	1
	Colitis		***				***				2
	Volvulus					***	***	***		***	1
		ic jaundice							***		1
		and exhaus					***	***	***		17
		hrombosis aemorrhage				***	***		7	***	1
	Gangrene	aemorrhage				***					3
		aralysis of t				411	***		***		1
	Cancer	/ 111	***						***	***	1
	Anaemia						***	***		***	1
	Status Ep	depticus				***	***	***	***	***	4
										1000	111

TABLE VI Summary of Staff.

		T-Ord	mmary o	AT STREET			
					Establish-		
Staff					ment	Strength	Strength
					1945	31.12.44	31.12.45
Medical	14.00					100	1
Director of Medical S		Compless	1555	***	1	1	THE SAME
Deputy Director of M			***	***	î	1	1
Deputy Director of S			157	***	18	18	18
Medical Officers—Gra	de B	***	127	***	11	6	6
	de C	***			20	7	7
	de D			***	2	-	-
Part-time Medical Off				-	5	5	5
District Medical Offic		***		***	21	20	20
	-						
Nurses and Welfare					5	5	5
Matrons Assistant Matrons	***		***		4	2	1
Sister Tutors	***	***			2	1	1
Senior Nursing Sister		·I		***	4	1	1 1 1
Senior Nursing Sister				***	13	5	5
Ward Sisters		***			45	28	30
Senior Charge Nurses		***	***	***	9	9	9
Charge nurses	***	***	***	***	27	23	27
Nurses	***	***		***	173	96	96
Artisan nurses	211	***	100	***	17	11	10
Student nurses	***	***	***	***	278	267	269
Health Visitors	***	***	***	***	63	45	56
Stewards and Dispensers.							
Stewards		***		***	3	3	3
Dispenser-Stewards			***		8	8	8
Dispensers and Dispe		10 M 100	***	***	51	44	46
Dispensing students	***	***	***		12	7	9
Technical Staff							
Electrician-Radiograp	oher			***	1	1	1
Radiographers	***				2	2	2
Senior Scientific Assis					1	1	1
Scientific Assistants	***		***	***	25	23	22
Optician (part-time)	***	***	***	***	1	THE REAL PROPERTY AND ADDRESS OF	1
Special Officers.							
Nutrition Officer	1	***			1		1
Health Education Of	ficer	***	***	***	1	1	1
Supervisor, Medical S		nd Disper	saries	***	1	1	0
Superintendent, Infai							200
Services		***		***	1	1	-
Assistant Superintene	dent, In	afant Wel:	fare and				
Maternity Service		***	***		1		0-0
Medico-Social Branch.							
Almoner					1	-	-
Administrative and S							
Chacachacare		***			1	1	1
Attendance Officer					1	1	1
Deutal Semice							
Dental Service Dental Surgeons	100				2		1
Dental Surgeons					2 4	-	1
Dental Surgeons Part-time Dental Sur			:::		4	4	1 4
Dental Surgeons Part-time Dental Sur Sanitary Inspectors	geons		***		4	4	
Dental Surgeons Part-time Dental Sur Sanitary Inspectors Chief Sanitary Inspec	geons				4 4 50	4 4 52	4
Dental Surgeons Part-time Dental Sur Sanitary Inspectors Chief Sanitary Inspec Sanitary Inspectors	geons		***		2 4 59	4 53	
Dental Surgeons Part-time Dental Sur Sanitary Inspectors Chief Sanitary Inspectors Sanitary Inspectors General Duty Staff	geons				59	53	4 57
Dental Surgeons Part-time Dental Sur Sanitary Inspectors Chief Sanitary Inspectors Sanitary Inspectors General Duty Staff (i) Hospitals	geons				59 282	53 260	4 57 272
Dental Surgeons Part-time Dental Sur Sanitary Inspectors Chief Sanitary Inspectors Sanitary Inspectors General Duty Staff (i) Hospitals (ii) General	ctors				282 108	53 260 106	4 57 272 107
Dental Surgeons Part-time Dental Sur Sanitary Inspectors Chief Sanitary Inspectors Sanitary Inspectors General Duty Staff (i) Hospitals (ii) General Telephone Operators	ctors				282 108 10	260 106 5	4 57 272 107 5
Dental Surgeons Part-time Dental Sur Sanitary Inspectors Chief Sanitary Inspectors Sanitary Inspectors General Duty Staff (i) Hospitals (ii) General Telephone Operators Chauffeurs	ctors				282 108	53 260 106	4 57 272 107
Dental Surgeons Part-time Dental Sur Sanitary Inspectors Chief Sanitary Inspectors Chief Sanitary Inspectors General Duty Staff (i) Hospitals (ii) General Telephone Operators Chauffeurs Clerical Establishment.	ctors				282 108 10	260 106 5	4 57 272 107 5
Dental Surgeons Part-time Dental Sur Sanitary Inspectors Chief Sanitary Inspectors General Duty Staff (i) Hospitals (ii) General Telephone Operators Chauffeurs Clerical Establishment. Principal Officer	ctors				282 108 10	260 106 5	4 57 272 107 5
Dental Surgeons Part-time Dental Sur Sanitary Inspectors Chief Sanitary Inspectors General Duty Staff (i) Hospitals (ii) General Telephone Operators Chauffeurs Clerical Establishment. Principal Officer Accountant	rgeons ctors 				282 108 10 18	53 260 106 5 18	4 57 272 107 5 18
Dental Surgeons Part-time Dental Sur Sanitary Inspectors Chief Sanitary Inspectors Chief Sanitary Inspectors General Duty Staff (i) Hospitals (ii) General Telephone Operators Chauffeurs Clerical Establishment. Principal Officer Accountant Senior Clerk	ctors				282 108 10 18	53 260 106 5 18 —	4 57 272 107 5 18
Dental Surgeons Part-time Dental Sur Sanitary Inspectors Chief Sanitary Inspectors Chief Sanitary Inspectors General Duty Staff (i) Hospitals (ii) General Telephone Operators Chauffeurs Clerical Establishment. Principal Officer Accountant Senior Clerk Ist Class Clerks	ctors				282 108 10 18 —————————————————————————————	53 260 106 5 18	4 57 272 107 5 18
Dental Surgeons Part-time Dental Sur Sanitary Inspectors Chief Sanitary Inspectors General Duty Staff (i) Hospitals (ii) General Telephone Operators Chauffeurs Clerical Establishment. Principal Officer Accountant Senior Clerk Ist Class Clerks 2nd Class Clerks	ctors				282 108 10 18 	53 260 106 5 18 — 1 1 9 32	4 57 272 107 5 18 ——————————————————————————————————
Dental Surgeons Part-time Dental Sur Sanitary Inspectors Chief Sanitary Inspectors Chief Sanitary Inspectors General Duty Staff (i) Hospitals (ii) General Telephone Operators Chauffeurs Clerical Establishment. Principal Officer Accountant Senior Clerk Ist Class Clerks	ctors				282 108 10 18 —————————————————————————————	53 260 106 5 18	4 57 272 107 5 18
Dental Surgeons Part-time Dental Sur Sanitary Inspectors Chief Sanitary Inspectors General Duty Staff (i) Hospitals (ii) General Telephone Operators Chauffeurs Clerical Establishment. Principal Officer Accountant Senior Clerk Ist Class Clerks 2nd Class Clerks	ctors				282 108 10 18 	53 260 106 5 18 — 1 1 9 32	4 57 272 107 5 18 ——————————————————————————————————
Dental Surgeons Part-time Dental Sur Sanitary Inspectors Chief Sanitary Inspectors General Duty Staff (i) Hospitals (ii) General Telephone Operators Chauffeurs Clerical Establishment. Principal Officer Accountant Senior Clerk Ist Class Clerks 2nd Class Clerks	ctors				282 108 10 18 	53 260 106 5 18 — 1 1 9 32	4 57 272 107 5 18 ——————————————————————————————————
Dental Surgeons Part-time Dental Sur Sanitary Inspectors Chief Sanitary Inspectors General Duty Staff (i) Hospitals (ii) General Telephone Operators Chauffeurs Clerical Establishment. Principal Officer Accountant Senior Clerk Ist Class Clerks 2nd Class Clerks	ctors		Table V		282 108 10 18 	53 260 106 5 18 — 1 1 9 32	4 57 272 107 5 18 ——————————————————————————————————
Dental Surgeons Part-time Dental Sur Sanitary Inspectors Chief Sanitary Inspectors General Duty Staff (i) Hospitals (ii) General Telephone Operators Chauffeurs Clerical Establishment. Principal Officer Accountant Senior Clerk Ist Class Clerks 2nd Class Clerks	ctors		Table V	/Ia.	282 108 10 18 	53 260 106 5 18 — 1 1 9 32	4 57 272 107 5 18 ——————————————————————————————————
Dental Surgeons Part-time Dental Sur Sanitary Inspectors Chief Sanitary Inspectors General Duty Staff (i) Hospitals (ii) General Telephone Operators Chauffeurs Clerical Establishment. Principal Officer Accountant Senior Clerk Ist Class Clerks 2nd Class Clerks	ctors		Table V	/Ia.	282 108 10 18 	53 260 106 5 18 — 1 1 9 32	4 57 272 107 5 18 ——————————————————————————————————
Dental Surgeons Part-time Dental Sur Sanitary Inspectors Chief Sanitary Inspectors General Duty Staff (i) Hospitals (ii) General Telephone Operators Chauffeurs Clerical Establishment. Principal Officer Accountant Senior Clerk 1st Class Clerks 2nd Class Clerks Non-Establishment C	ctors		Table V	/Ia.	59  282 108 10 18  1 1 1 1 10 40 13	53 260 106 5 18 1 1 9 32 12	4 57 272 107 5 18 
Dental Surgeons Part-time Dental Sur Sanitary Inspectors Chief Sanitary Inspectors General Duty Staff (i) Hospitals (ii) General Telephone Operators Chauffeurs Clerical Establishment. Principal Officer Accountant Senior Clerk Ist Class Clerks 2nd Class Clerks	ctors		Table V	/Ia.	59  282 108 10 18  1 1 1 10 40 13	53 260 106 5 18	4 57 272 107 5 18 ——————————————————————————————————
Dental Surgeons Part-time Dental Sur Sanitary Inspectors Chief Sanitary Inspectors Chief Sanitary Inspectors General Duty Staff (i) Hospitals (ii) General Telephone Operators Chaufteurs Clerical Establishment. Principal Officer Accountant Senior Clerk Ist Class Clerks 2nd Class Clerks Non-Establishment C	ctors		Table V	/Ia.	59  282 108 10 18  1 1 1 1 10 40 13	53 260 106 5 18 1 1 9 32 12	4 57 272 107 5 18 ——————————————————————————————————
Dental Surgeons Part-time Dental Sur Sanitary Inspectors Chief Sanitary Inspectors General Duty Staff (i) Hospitals (ii) General Telephone Operators Chauffeurs Clerical Establishment. Principal Officer Accountant Senior Clerk 1st Class Clerks 2nd Class Clerks Non-Establishment C	ctors	Dis	Table V	/Ia.	59  282 108 10 18  1 1 1 10 40 13	53 260 106 5 18	4 57 272 107 5 18 ——————————————————————————————————
Dental Surgeons Part-time Dental Sur Sanitary Inspectors Chief Sanitary Inspectors Chief Sanitary Inspectors General Duty Staff (i) Hospitals (ii) General Telephone Operators Chauffeurs Clerical Establishment. Principal Officer Accountant Senior Clerk 1st Class Clerks 2nd Class Clerks Non-Establishment Co	ctors	Dis	Table V	7Ia. a of Staff arters.	59  282 108 10 18  1 1 1 10 40 13	53 260 106 5 18	4 57 272 107 5 18 ——————————————————————————————————
Dental Surgeons Part-time Dental Sur Sanitary Inspectors Chief Sanitary Inspectors Chief Sanitary Inspectors General Duty Staff (i) Hospitals (ii) General Telephone Operators Chauffeurs Clerical Establishment. Principal Officer Accountant Semior Clerk 1st Class Clerks 2nd Class Clerks Non-Establishment Constitution  Staff Director of Medical Service Deputy Director Sanitary Deputy Director Sanitary	ctors	Dis	Table V	7Ia. a of Staff arters.	59  282 108 10 18  1 1 1 10 40 13	53 260 106 5 18	4 57 272 107 5 18 ——————————————————————————————————
Dental Surgeons Part-time Dental Sur Sanitary Inspectors Chief Sanitary Inspectors General Duty Staff (i) Hospitals (ii) General Telephone Operators Chauffeurs Clerical Establishment. Principal Officer Accountant Senior Clerk Ist Class Clerks 2nd Class Clerks Non-Establishment C	ctors	Dis	Table V	/Ia.	59  282 108 10 18  1 1 10 40 13  Establishment 1945 1 1 1	53 260 106 5 18	4 57 272 107 5 18 ——————————————————————————————————
Dental Surgeons Part-time Dental Sur Sanitary Inspectors Chief Sanitary Inspectors General Duty Staff (i) Hospitals (ii) General Telephone Operators Chauffeurs Clerical Establishment. Principal Officer Accountant Senior Clerk 1st Class Clerks 2nd Class Clerks Non-Establishment Co	ctors	Dis	Table V	/Ia.	59  282 108 10 18  1 1 10 40 40 13  Establishment 1945 1 1 1 1 1 12	53 260 106 5 18	272 107 5 18 
Dental Surgeons Part-time Dental Sur Sanitary Inspectors Chief Sanitary Inspectors General Duty Staff (i) Hospitals (ii) General Telephone Operators Chauffeurs Clerical Establishment. Principal Officer Accountant Senior Clerk Ist Class Clerks 2nd Class Clerks Non-Establishment C	ctors	Dis	Table V	Ta. a of Staff arters.	59  282 108 10 18  1 1 1 10 40 13  Establishment 1945 1 1 1 1 1 1 1 1 1 1	53 260 106 5 18	272 107 5 18 ——————————————————————————————————
Dental Surgeons Part-time Dental Sur Sanitary Inspectors Chief Sanitary Inspectors Chief Sanitary Inspectors General Duty Staff (i) Hospitals (ii) General Telephone Operators Chauffeurs Clerical Establishment. Principal Officer Accountant Semior Clerk 1st Class Clerks 2nd Class Clerks Non-Establishment Constitution Staff Director of Medical Service Deputy Director of Medic Deputy Director Sanitary Venereal Diseases Special Relieving Medical Officer Accountant	ctors	Dis	Table V	TIA. a of Staff arters.	59  282 108 10 18  1 1 10 40 13  Establishment 1945 1 1 1 1 1 1 1 1 1	53 260 106 5 18	272 107 5 18 ——————————————————————————————————
Dental Surgeons Part-time Dental Sur Sanitary Inspectors Chief Sanitary Inspectors Chief Sanitary Inspectors General Duty Staff (i) Hospitals (ii) General Telephone Operators Chauffeurs Clerical Establishment. Principal Officer Accountant Senior Clerk 1st Class Clerks 2nd Class Clerks 2nd Class Clerks Non-Establishment Constitution Staff Director of Medical Service Deputy Director Sanitary Veneral Diseases Special Relieving Medical Officer Accountant Senior Clerk	ctors	Dis	Table V	/Ia. a of Staff arters.	59  282 108 10 18  1 1 1 10 40 13  Establishment 1945 1 1 1 1 1 1 1 1 1 1	53 260 106 5 18	272 107 5 18 ——————————————————————————————————
Dental Surgeons Part-time Dental Sur Sanitary Inspectors Chief Sanitary Inspectors General Duty Staff (i) Hospitals (ii) General Telephone Operators Chauffeurs Clerical Establishment. Principal Officer Accountant Senior Clerk 1st Class Clerks 2nd Class Clerks Non-Establishment Constitution Staff Director of Medical Service Deputy Director of Medic Deputy Director of Medic Deputy Director Sanitary Venereal Diseases Special Relieving Medical Officer Accountant Senior Clerk 1st Class Clerks	ctors	Dis	Table V	TIA. a of Staff arters.	59  282 108 10 18  1 1 10 40 40 13  Establishment 1945 1 1 1 1 1 1 1 2 1 1 3	53 260 106 5 18	272 107 5 18 
Dental Surgeons Part-time Dental Sur Sanitary Inspectors Chief Sanitary Inspectors General Duty Staff (i) Hospitals (ii) General Telephone Operators Chauffeurs Clerical Establishment Principal Officer Accountant Senior Clerk 2nd Class Clerks Non-Establishment Officer Staff Director of Medical Service Deputy Director Sanitary Veneral Diseases Special Relieving Medical Officer Accountant Senior Clerk Staff  Staff Director of Medical Service Deputy Director Sanitary Veneral Diseases Special Relieving Medical Officer Accountant Senior Clerk 1st Class Clerks 2nd Class Clerks 3nd	ctors	Dis	Table V	Ta. a of Staff arters.	59  282 108 10 18  1 1 1 10 40 13  Establishment 1945 1 1 1 1 1 1 2 1 1 3 9	53 260 106 5 18	272 107 5 18 — 1 1 10 40 13 Strength 31.12.45 1 — 1 1 1 1 3 9
Dental Surgeons Part-time Dental Sur Sanitary Inspectors Chief Sanitary Inspectors Chief Sanitary Inspectors General Duty Staff (i) Hospitals (ii) General Telephone Operators Chauffeurs Clerical Establishment. Principal Officer Accountant Semior Clerk 1st Class Clerks 2nd Class Clerks Non-Establishment Control Staff Director of Medical Service Deputy Director of Medic Deputy Director Sanitary Venereal Diseases Special Relieving Medical Officer Accountant Senior Clerk 1st Class Clerks Messengers Messengers	ctors	Dis	Table V	Ta. a of Staff arters.	59  282 108 10 18  1 1 1 1 10 40 13  Establishment 1945 1 1 1 1 1 1 1 2 1 1 3 9 3	53 260 106 5 18	272 107 5 18 — 1 1 10 40 13 Strength 31.12.45 1 — 1 1 1 1 3 9 3
Dental Surgeons Part-time Dental Sur Sanitary Inspectors Chief Sanitary Inspectors Chief Sanitary Inspectors General Duty Staff (i) Hospitals (ii) General Telephone Operators Chauffeurs Clerical Establishment. Principal Officer Accountant Semior Clerk 1st Class Clerks 2nd Class Clerks 2nd Class Clerks Non-Establishment Computy Director of Medical Service Deputy Director Sanitary Venereal Diseases Special Relieving Medical Officer Accountant Senior Clerk 1st Class Clerks 2nd Class Clerks 2nd Class Clerks 2nd Class Clerks Messengers	ctors  ct	Dis Dispensa	Table V tribution Headqu	TIA.  a of Staff arters.	59  282 108 10 18  1 1 10 40 13  Establishment 1945 1 1 1 1 1 2 1 1 3 9 3	53 260 106 5 18	272 107 5 18 
Dental Surgeons Part-time Dental Sur Sanitary Inspectors Chief Sanitary Inspectors General Duty Staff (i) Hospitals (ii) General Telephone Operators Chauffeurs Clerical Establishment. Principal Officer Accountant Senior Clerk 1st Class Clerks 2nd Class Clerks Non-Establishment Constitution  Staff  Director of Medical Service Deputy Director of Medic Deputy Director Sanitary Venereal Diseases Special Relieving Medical Officer Accountant Senior Clerk 1st Class Clerks Messengers Supervisor of Medical Sto Dispensers	ces cal Servicist s	Dis Dis Dispensa	Table V tribution Headqui	/Ia. a of Staff arters.	59  282 108 10 18  1 1 1 10 40 13  Establishment 1945 1 1 1 1 1 2 1 1 1 1 6	53 260 106 5 18	272 107 5 18 
Dental Surgeons Part-time Dental Sur Sanitary Inspectors Chief Sanitary Inspectors General Duty Staff (i) Hospitals (ii) General Telephone Operators Chauffeurs Clerical Establishment Principal Officer Accountant Senior Clerk 1st Class Clerks 2nd Class Clerks Non-Establishment Co  Staff  Director of Medical Service Deputy Director Sanitary Veneral Diseases Special Relieving Medical Officer Accountant Senior Clerk 1st Class Clerks Messengers Supervisor of Medical Sto Dispensers Assistant Dispensers	ctors	Dis Dispensa	Table V tribution Headqu	Ta. a of Staff arters.	59  282 108 10 18  1 1 1 1 10 40 13  Establishment 1945 1 1 1 1 1 1 2 1 1 3 9 3	53 260 106 5 18	272 107 5 18 — 1 1 10 40 13 Strength 31.12.45 1 — 1 1 1 1 3 9 3
Dental Surgeons Part-time Dental Sur Sanitary Inspectors Chief Sanitary Inspectors General Duty Staff (i) Hospitals (ii) General Telephone Operators Chauffeurs Clerical Establishment. Principal Officer Accountant Senior Clerk 1st Class Clerks 2nd Class Clerks Non-Establishment Constitution  Staff  Director of Medical Service Deputy Director of Medic Deputy Director Sanitary Venereal Diseases Special Relieving Medical Officer Accountant Senior Clerk 1st Class Clerks Messengers Supervisor of Medical Sto Dispensers	ces cal Servicist s	Dis Dis Dispensa	Table V tribution Headqui	/Ia. a of Staff arters.	59  282 108 10 18  1 1 1 10 40 13  Establishment 1945 1 1 1 1 1 2 1 1 1 1 6	53 260 106 5 18	4 57 272 107 5 18

## Colonial Hospital, Port-of-Spain.

	Colon	ial Hospit	ial, Port	-of-Spain	1.		
0.4					Establish-	Strength	Strength
Staff					ment 1945	31.12.44	31.12.45
					1010		
Medical Superintendent (G		***	***	***	1	1	1
Medical Officer Grade A Grade B	***	***	***	***	5 2	5 2	5 2
Grade C		***		***	6	3	2
Grade D	***			***	2	-	-
Radiologist Grade A	rada A	***	***	***	1	1	1
Contract Medical Officer G Ophthalmic Surgeon (part-		***	***	***	1	1	1
Clerical establishment :	earne,		100	***			Balant.
1st Class Clerk	***	***	****	***	1	1	1
2nd Class Clerks Almoner	***	***	***	***	9	6	8
Attendance Officer	***	***	***	***	1	1	1
Steward	***	***	***	***	i	i	i .
Dispenser Grade A		***	***	***	1	1	1
Grade B Student Dispensers	***	***	***	***	6 8	4	5
Matron	***	***	***	***	î	1	6
Assistant Matron	***	***	***		1	i	
Sister Tutor		***	***	***	1	1	1
Senior Nursing Sister Grad Senior Nursing Sister Grad			***	***	7	1	1
Ward Sister		***		***	21	14	17
Staff Nurse	***	***	***	***	70	60	- 60
Student Nurse Electrician Radiographer	***	***	***	***	136	150	154
Electrician Radiographer Radiographer		***		***	1	1	1
Scientific X-ray Assistant		715		***	5	2	15
Chauffeur	***	***	***	***	3	2	3
Optician (part-time) Telephone Operators	***	***	***	***	1 4	4	1
General duty staff	***	***	***	***	107	102	113
AND DESCRIPTION OF THE PROPERTY OF THE PROPERT							
	Colonia	1 Hospital	Con F	omanda.			
	COLOURIE	l Hospital	i, oau e	ernando.			
Medical Officers Grade A				***	3	3	
Grade B		***		***	_	-	3
Grade C	***	***	***	***	4	4	4
Clerical Establishment : 1st Class Clerk	***			***	1	1	
2nd Class Clerk	***	***	***		4	4	1 4
Dispensers	***	***	***	***	4	3	3
Student Dispensers Matron	***	***	***	***	4	3	3
Assistant Matron		***		***	1	1	1
Senior Nursing Sister Grad		***	***	***	5	i	1
Senior Nursing Sister Grad		***	***	***	5		-
Ward Sisters Staff Nurses	***	***		***	18 29	10	8
Student Nurses	***	***	***	***	90	110	108
Radiographer	****	***	***	***	1	1	-
Scientific Assistant (X-ray Chauffeur	"		***	***	3	3	-
General Duty Staff		***			89	75	77
Telephone operators	***	***	***	***	3	_	_
		Colonial I	Hospital	Tobago.	A STREET		
						1	
Resident Surgeon	***	***	***	***	1	1	1
Dispenser Steward	***	***	***	***	1	1	1
Matron Ward Sisters	***		***	***	1 2	2	1
Staff Nurses	***		***		6	5	4
Student Nurses	***	*** -		***	7	7	4 7 4 3 1 4 1 2
Laundresses Wardsmaids	***	***	***	***	5 3	5 3	4
Wardsmaids Seamstress		***		***	1	1	1
Attendants	***	***	***	***	4	4	4
Issuer	***	***	***	***	1 2	1 2	1
Cooks Chauffeur			***		Î	- 1	1
					1		
		Potti-	ant m	on oharr			
	repe	r Settleme	ent, una	сиспасат	e.		
Medical Superintendent	***			-	1	1	1
Administrative and Social	Welfar			***	1	1	1
Dispenser-Steward	***	***	-3.	***	2	1	1
Dispenser-Clerk Secretary-Steward	***	***	***	***	1	1	1
Secretary-Steward Matron	***	***	***	***	1	1	1
Assistant Matron				***	1	-	1
Senior Charge Nurses	***	***	***		5	2	5
Nurses Charge Nurses	***	***	***	***	15	15	15
Chauffeur	***		***	***	1	1	1
Leprosy Survey Assistant				***	1	1	1
General Duty Staff Scientific Assistant	777	***	***	***	29	29	. 29
	1	***	***	***	The state of the	1000	The state of the s

		Mental	Hospital.		Parties.	er	
Staff					Establish- ment 1945	Strength 31.12.44	Strength 31.12.45
Medical Superintendent					1843	1	1
Medical Officer Grade C		***	***	***	i	i	1
Clerical Establishment:	***	***	***	***			
lst Class Clerk				***	1	1	1
2nd Class Clerk	***	***		***	1	1	i
Telephone operators				***	2	-	-
Dispenser	***	***			1	1	1
Steward	***	***		***	1	. 1	1
Matron	****	***		***	1	1	1
Assistant Matron		***		***	1	-	-
Senior Charge Nurses	***	***	***	***	4	4	4
Charge Nurses	***	***	***	***	27	23	27
Nurses	***	***	***	***	158	127	128
Artisan Nurses	***		***	***	17	11	10
Student Nurses	***	***	***	***	45	43	32
Head Attendants			***	***	2	1	1
Issuer		***	***	***	1	1	1
Chauffeur		***	***	***	1	1	-
Malariologist Clerical Establishment: 1st Class Clerk 2nd Class Clerk Dispenser Chief Sanitary Inspector Sanitary Inspectors Senior Field Inspectors Field Assistants Scientific Assistants Messenger Extra Attendants			Division.		1 2 1 1 3 2 9 4 1 13	1 1 1 1 1 3 2 9 4 1 13	1 1 1 1 1 3 2 9 4 1 13
		Bacterio	ological L	aborate			
Senior Pathologist	***	***	***	***	1	1	1
Pathologist Clerical Establishment:		***	***	***	2	AND PARK	1
Ist Class Clerk	***	***	***	***	1	-	-
Scientific Assistants	. ""	***	***	***	10	9	8
Senior Scientific Assistan		***	***		1		1
Female Attendant	***	***	***	***	i	1	
Office Attendant	***	***	***	***	3	3	1 3
Messenger Establishment		***	***	***	3	3	3

# DISTRICT SERVICES

# A .- NORTHERN DIVISION

		1. Divis	ional He	alth Office	Establish-	Strength	Strength
Staff					ment 1945	31.12.44	31.12.45
Senior Medical Officer of I	<b>Health</b>		***	***	1	1	1
Divisional Sanitary Inspec	tor	***	***		1	1	1
Clerical Establishment:							
1st Class Clerk	***	***	***	***	1	1	1
2nd Class Clerks	***	***	***	***	3	3	3
Non-Establishment C	lerk	***	***	***	1	1	1
Dispenser-Clerk	***	***	***	***	1	1	1
Messengers	***	***	***	***	2	2	2
			County St				
Medical Officer of Health						1	200
District Medical Officers		***	***		8	. 8	7
Sanitary Inpectors		7.7	***	***	20	14	20
Health Visitors			***		30	21	28
Dispenser-Stewards		***	***		3	3	
Dispenser-Clerks					3	1	2
Ward Sisters					2		3 2 2
Staff Nurses			***		12	12	11
General Duty Staff					20	19	19
		-					
		3. Coun	ty St. Dav	id-St. And	rew.		
District Medical Officers	***	***	***	***	2	2	3
Sanitary Inspectors	***	***	***	***	4	4	3
Health Visitors	***	***	***	***	*	4	4
Dispenser	***	***	***	***	1	1	
Staff Nurse	***	***	***	***	1	1	1
Cook	***				1		
		4	Ward of	Tohago			
District Medical Officers	***				3	3	3
Sanitary Inspectors					3	5 2	5
Health Visitors				1000	3		3

# B. SOUTHERN DIVISION

Staff					Establish- ment 1945	Strength 31.12.44	Strength 31.12.45
		1 Divis	ional Ha	alth Office	1945		
Senior Medical Officer of I	Health	1. 201110	COURSE TAN		1	1	1
Divisional Sanitary Inspec		***	***	***	1	1	1
Clerical Establishment:							
Ist Class Clerks	***	***	***	***	1	1	1
2nd Class Clerks Non-Establishment Cl	larba	***	***	***	3	3	3
Messengers	***	***	***	***	3	3	3
ancestrages	30	777	***	***			
		2.	County (	Caroni	35		
Medical Officer of Health	***	***	***	***	1	_	-
District Medical Officers	***	***	***	***	3	3	3
Dispenser-Clerks Sanitary Inspectors		***	***	***	5	5	4
Health Visitors		***	***	***	6	6	6
Dispenser-Steward			***		6	1	1
Dispenser-Clerk	***	***	***	***	1	1	1
Ward Sisters	***	***	***	***	2	1	1
Staff Nurses	***	***	***	***	5	5	5
General Duty Staff	***	***	***	***	9	8	8
		3. (	County V	ictoria			
Medical Officer of Health	***	***	***		2	1	- 1
District Medical Officers		***		***	3	3	3
Dispenser-Clerk	***	***	***	***	1	1	1
Dispenser-Steward	***	***	***	***	1	1	1
Ward Sister Staff Nurses	***	***	***		5	4	1 4
General Duty Staff	***	***	***		8	8	8
Sanitary Inspectors			***	***	14	13	14
Health Visitors			***		12	7	9
Meat Inspector	***	***	***	***	1	1	1
		A 000	unty St.	Poteiole			
Medical Officer of Health		4. 00	unty St.	Fastick	1	1	
District Medical Officers					3	3	3
Sanitary Inspectors			***	***	7	7	7
Dispenser-Clerk			***	***	1	1	1
Health Visitors	***	***	***	***	6	5	6
Dispenser	***	***	***	***	1 2	1 2	1 2
Staff Nurses General Duty Staff	***	***	***		3	3	3
Otherst Daty Court	200	***		10000			197
		2300	To the same of	1000			
		5. Co		iva-Mayaro			-
District Medical Officer	***	***	***	***	1 2	1	1
Sanitary Inspectors Health Visitors	***		***	***	2	2	2
Dispenser	***		***	***	ī	î	ī
Staff Nurse	***				1	1	1
General Duty Staff			***		2	2	2
The second secon							

