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SOUTHERN NIGERIA.

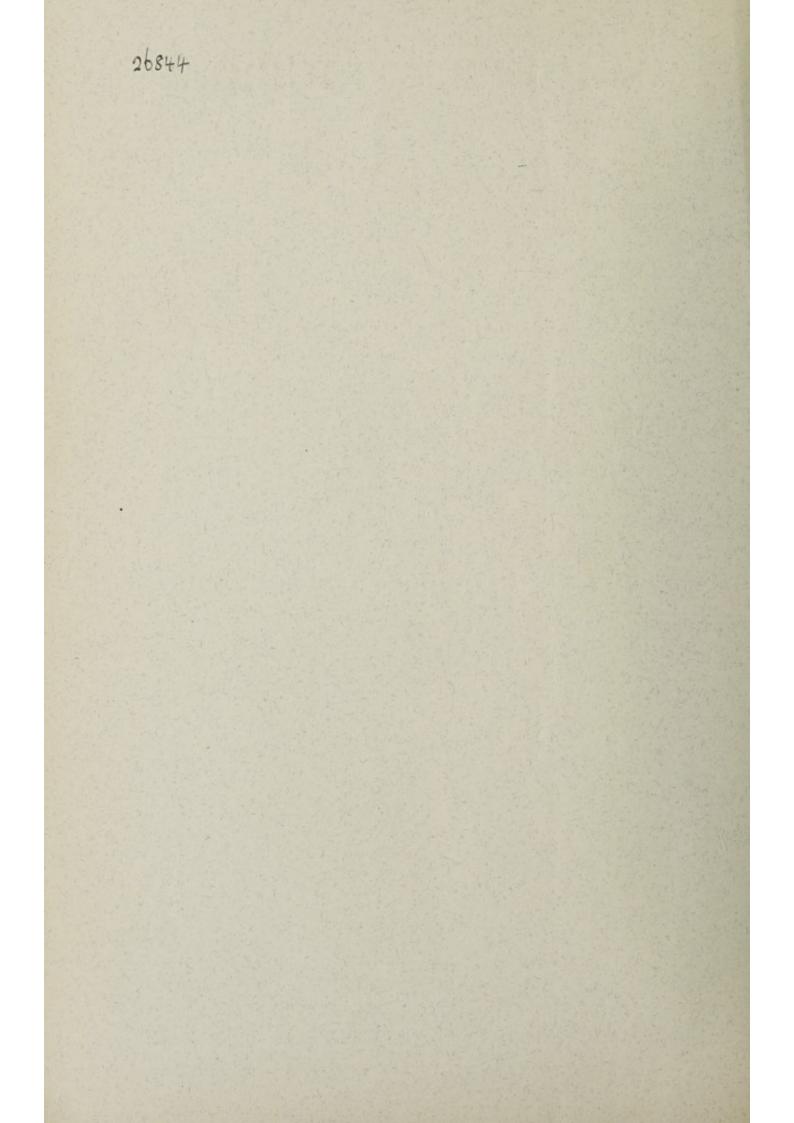


ANNUAL MEDICAL REPORT

FOR THE

YEAR ENDING DECEMBER 31st, 1912.

PRINTED BY WATERLOW & SONS LIMITED, LONDON WALL, LONDON, E.C. 1913.



SOUTHERN NIGERIA.

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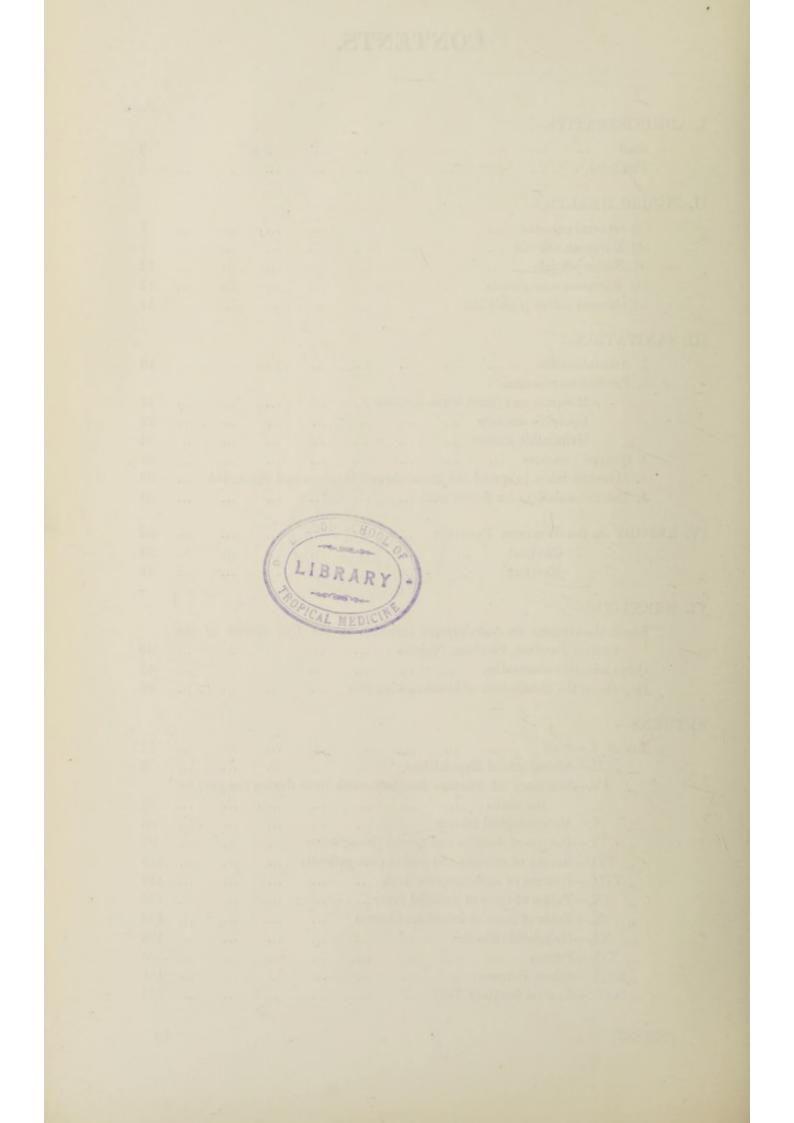
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SOUTHERN NIGERIA.

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FOR THE

YEAR ENDING DECEMBER 31st, 1912.

I.—ADMINISTRATIVE.

STAFF.

The Medical Staff consists of :---

1 Principal Medical Officer.

1 Deputy Principal Medical Officer.

1 Senior Sanitary Officer.

2 Provincial Medical Officers.

3 Senior Medical Officers.

1 Sanitary Officer.

69 Medical Officers, of whom one is seconded for special service at the Colonial Office and one as Medical Officer of Health to the Lagos Municipal Board.

4 Native Medical Officers.

The following changes have taken place in the staff during 1912 :--

Dr. A. E. Horn was appointed Personal Assistant to the Principal Medical Officer on 24th July.

Dr. D. Burrows, Medical Officer, Sierra Leone, was appointed Senior Medical Officer vice Dr. E. H. Read, on 4th September.

The following Medical Officers were appointed :--

Dr. E. J. J. Quirk.

- " W. Browne.
- " K. Manson.
- " M. W. Ruthven.
- " C. Kelsall.
- " H. de C. Dillon.
- " E. L. Anderson.
- " T. R. Sandeman.
- " W. R. Parkinson.

One Medical Officer was not confirmed in his appointment.

TRANSFERS.

Dr. W. I. Taylor was transferred to Northern Nigeria, on promotion, as Senior Medical Officer on 21st August.

RETIREMENTS.

Dr. A. J. A. Browne, Medical Officer, retired on pension on 3rd April.

RESIGNATIONS.

Dr. J. Cross, Medical Officer, resigned on 3rd April. Dr. H. de C. Dillon, Medical Officer, resigned on 6th September.

DISMISSALS.

One Native Medical Officer was dismissed from the service.

INVALIDINGS.

Six Medical Officers were invalided during the year for the following complaints :--

- (1) Otitis Externa with Adenitis (permanently).
- (2) Congestion of Brain.
- (3) Chronic Colitis and Hepatitis.
- (4) Blackwater Fever.
- (5) Malaria and Blackwater Fever.
- (6) Renal Calculus.

DEATH.

Dr. E. H. Read, Senior Medical Officer, died of Diabetes on 5th August.

SECONDING.

Dr. T. F. G. Mayer, Medical Officer, was seconded for special service at the Colonial Office on 29th April.

The following events of interest occurred during the year :--

The Principal Medical Office, Lagos, was transferred from the quarters of the Principal Medical Officer to the old Lagos Institute, next to the Central Government Offices, on 12th March.

The Principal Medical Officer was relieved of the duties of President of the Lagos Municipal Board of Health on 26th September in order to allow him more freedom to travel on inspection through the Colony. Power was granted to the Principal Medical Officer on 2nd October to appoint Public Vaccinators, under Section I. of the Vaccination Ordinance.

The Southern Nigeria Medical Officer stationed at Kuti Wenji was withdrawn and the work undertaken by the Government of Northern Nigeria.

The Southern Nigeria Medical Officer, formerly stationed at Zungeru, was removed to Offa, the work at the former station being undertaken by the Northern Nigeria Government. A conference of Principal Medical Officers was held at Lagos from 11th November to 20th November. It was attended by the following Officers of the West African Medical Staff.

The Honourable W. H. Langley, C.M.G., Principal Medical Officer, Southern Nigeria (*Chairman*).

Dr. R. M. Forde, Principal Medical Officer, Sierra Leone.

Dr. F. G. Hopkins, Principal Medical Officer, Gold Coast.

Dr. M. Cameron Blair, Acting Principal Medical Officer, Northern Nigeria.

Dr. E. A. Chartres, Senior Medical Officer, Gambia.

Dr. G. C. Walker, Acting Senior Sanitary Officer, Gold Coast.

Dr. D. Alexander, Acting Senior Sanitary Officer, Sierra Leone.

Dr. R. Laurie, Acting Senior Sanitary Officer, Southern Nigeria.

Dr. A. E. Horn acted as Secretary to the Conference. Mr. J. Eaglesome, C.M.G., Director of Works and Railways, Nigeria, Mr. C. V. Bellamy, Director of Public Work, Southern Nigeria, and Mr. E. O. Cummins, Government Architect, Southern Nigeria, were present during part of the deliberations.

ENTOMOLOGICAL COURSES.

Eleven Medical Officers and four lay European Officials received instruction in Entomology in England during the year.

EUROPEAN NURSES.

The staff was maintained at 17, who served at the large hospitals in the Colony.

FINANCIAL.

STATEMENT OF REVENUE FOR THE YEAR, 1912.

HEAD AND SUB-READS.	We	steri	n.	Cer	atral	L	Ea	stern	-	To	TAL.	
HEAD 4.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
Item 5—Hospital Fees and Receipts , 52—Salaries of Medical Officers,	1,123	4	11	559	7	6	520	12	4	2,203	4	9
, 52—Salaries of Medical Officers, Railway	1,298	16	8		-			-		1,298	16	8
										£3,502	1	5

ESTIMATED REVENUE.

Hospital Fees, etc. £1,550 0 0

STATEMENT OF EXPENDITURE FOR THE YEAR, 1912.

					Estimate.	Actual Expenditure.		
Medical and Sanitary	Laboratory	 	 		£ 78,137 8,963	£ 74,809 8,384	s. d. 3 4 2 5	
				Ī	£87,100	£83,193	59	

The difference between the actual expenditure and the estimate is largely accounted for by the saving in Personal Emoluments.

The Sanitary Expenditure shown above concerns the figures which are dealt with by this Department. In addition, it is right to say, under Public Works Extraordinary, a sum of £14,068 7s. 6d. was spent during the year in the three provinces on "Drainage and Sanitation," "Swamp Reclamation," and "Mosquito Proofing" as follows :—

EXPENDITURE OF MONEY ON SANITARY WORKS BY THE PUBLIC WORKS DEPARTMENT.

WESTERN PROVINCE.

					£	s.	d.
	Drainage				 3,036	14	7
	Sanitary Works				 2,485	9	2
	Reclamation				 1,138	19	7
	Mosquito-proofing				 1,840	3	1
				TOTAL	 £8,501	6	5
						108	
CENTRAL	PROVINCE.						
					£	s.	d.
	Drainage and Recla	mation			 2,566	0	0
	Mosquito-proofing				 797	0	0
				TOTAL	 £3,363	0	0
Eastern	Province.						
					£	s.	d.
	Drainage				 691	15	10
	Reclamation				 775	5	4
	Mosquito-proofing				 736	19	11
				TOTAL	 £2,204	1	1
					-		_
					£	s.	d.
WESTERN	PROVINCE				 8,501	6	5
CENTRAL	PROVINCE				 3,363	0	0
	PROVINCE				 2,204	1	1
	s	OUTHER	N N	IGERIA	 £14,068	7	6
					Concernant Press		-

Native Court Funds to the extent of £902 were expended by the Medical Department in the Eastern Province on Sanitation, Latrines and Vaccination.

II.—PUBLIC HEALTH.

(a.)—GENERAL REMARKS.

The Public Health of the Colony, has, on the whole, been good. The vital statistics of Lagos and Ebute Metta show a decrease in the total death rate per 1,000 from 1911, but reliable statistics are not available from other parts.

No case of Plague occurred, nor any case which could be regarded as in any way supicious of Yellow Fever.

Malaria.—As compared with 1911, there is an increase of over 1,000 in the number of cases treated throughout Southern Nigeria, the increase largely occurring in the Eastern Province, where returns have been received from the new districts Eket and Itu, and where closer communication is being established with the inhabitants.

A comparison of the percentage of Malaria rates to the total number of cases (European and Native) treated throughout the hospitals and dispensaries of Southern Nigeria during the last six years is as follows :---

1907	Malaria	= 7	.9	per	cent.
1908	,,	=7	.3	-	• •
1909	,	=7	.12		,,
1910	,,	= 7	.57		,,
1911	,,	= 8	8.0		,,
1912	"	= 8	8.18		,,

The table shows that a slight but fairly steady increase has occurred, largely due to the opening up of new districts where conditions are naturally favourable to the disease, and the percentage of infected natives is high; also the increased attendances at the older stations provide more cases.

A comparative table of cases during the last four years is given (vide Table IX.).

Blackwater Fever.—As is seen in the table of Blackwater Fever cases, 23 cases with 4 deaths occurred in 1912, compared with 26 cases with 8 deaths in 1911. Five of these cases occurred in European Officials, with no deaths. It should be here noted, however, that a further death among the 23 cases (a Non-Official European) occurred on January 1st, 1913, and will be shown in the report for that year.

Trypanosomiasis.—The occurrence of Sleeping Sickness in the Eket and Ikotekpene districts of the Eastern Province in the early part of the year was followed by a careful inquiry into the extent to which the disease existed. An account of the steps taken and results obtained is included in the portion of the report devoted to the Eastern Province. The low mortality from the disease is of considerable interest and corresponds with what has been found in some parts of the Gold Coast, inasmuch as no devastating epidemic has arisen in Southern Nigeria from this focus.

The presence of large numbers of trypanosomes in the peripheral blood of native pigs of Ikotekpene, which is reported by Dr. Gallagher, may have an important bearing on the question of prophylaxis, and further investigation will be made in the subject.

Filariasis.—The discovery by Dr. Leiper at Calabar that *Chrysops dimidiata* and *silacea* form the intermediate host and carrier of *Filaria loa* is of very great importance in view of the large numbers in which these flies are frequently to be found along the water-ways of the districts.

Dysentery has slightly increased from 0.98 per cent. in 1911 to 1.03 per cent. in 1912.

[279333]

An epidemic of bacillary dysentery and diarrhoea occurred from August to October among the inmates of the Calabar Prison, affecting principally those who had been drafted in from outlying districts. The epidemic was probably due in part to the geophagous habits of the prisoners, many of whom suffered at the same time from Ankylostomiasis.

Leprosy.—A total of 117 cases of Leprosy came under treatment in the ordinary course. While this includes the cases in the Leper Asylum at Yaba and the settlement ε t Onitsha, it excludes the large settlement of lepers at Ibusa, near Asaba, which at the end of 1912 contained over 100 cases.

The Ibusa settlement was started in 1908 in an endemic centre of the disease; the buildings contained in it are erected partly by the lepers themselves and partly by people in the neighbouring villages. The villages from which the lepers are derived are responsible for their feeding, and there is also a grant from the local Native Court funds, but the arrangement has not proved satisfactory. There is no legal compulsion for lepers to remain in the settlement, and no form of treatment can be satisfactorily attempted. It is visited monthly by the Travelling Medical Officer of Onitsha, and is under the control of the District Commissioner, Asaba. There are constant difficulties concerning the feeding of the inmates, as their native villages repudiate their responsibility for them as early and as often as possible.

There can be no doubt that the disease is far more prevalent in the Central Province, and probably other parts of Southern Nigeria, than available returns indicate. It is well recognised by natives, who, in many cases, expel sufferers from their villages to wander through the country or die of exhaustion in the "bush."

The matter is one which has already occupied the attention of the Government and presents a problem which will demand earnest consideration in the future. It is possible that it may best be dealt with in connection with similar steps in Northern Nigeria.

Tuberculosis is a disease attended with high mortality among negro races. The known incidence has not been great in past years in Southern Nigeria, but it is a danger which will, it is hoped, be lessened with the gradual advance of improved sanitation. The following shows the percentage of Tuberculosis to total cases treated during the last six years, and indicates that no marked increase has occurred.

1907 = 0.17 per ce	ent.
1908 = 0.17 ,,	
1909 = 0.18 ,,	
1910 = 0.15 ,,	
1911 = 0.19 ,,	
1912 = 0.15 ,,	

Small Pox:—As in last year, no large epidemic of Small Pox occurred. It is hoped that this may be a permanent result of the greatly increased number of vaccinations performed during the year. It will be seen from the Tables VI. and VII. that the greatest number of cases occurred in Zungeru and Offa, stations of Northern Nigeria.

Chicken Pox has been prevalent, particularly in the Central and Eastern Provinces. It was, however, mostly of a mild character with low mortality. At Calabar Prison it was rife from August to October, and was coincident with a severe outbreak of dysentery and diarrhœa.

Ankylostomiasis.—There is little doubt that, as was suggested in last year's report, there is a very high percentage of infection with Ankylostomes, particularly among "bush" natives. Dr. Wyler's interesting paper on the subject, contained in this Report, throws a vivid light on the insanitary conditions obtaining in some villages, which render the infection practically universal in the neighbourhood. The importance of the disease is considerable, as the debilitated condition sometimes produced by it renders the sufferer more liable to other affections which may easily produce a fatal termination, as was the case at Calabar Prison towards the latter part of the year.

9

Vaccination has been actively carried out during the year, over 76,000 more vaccinations having been performed than in 1911. These have also been attended with a higher percentage of known successes than in either of the two preceding years, as is shown in the following table.

	1910.			1911.			1912.		
		Total Vaccinated.	Total Successful,	Total Vaccinated.	Total Successful.	Total Vaccinated.	Total Successful.		
Western Province Central Province Eastern Province		75,691 12,902 47,054	$43,981 \\ 6,935 \\ 37,663$	83,162 35,123 48,109	52,777 22,431 38,449	104,133 65,445 73,738	62,768 53,040 61,136		
		135,647	88,579	166,394	113,657	243,316	176,944		
	1	65·30 % s	uccessful.	68.30 % s	uccessful.	72·72 % s	uccessful.		

TABLE SHOWING RESULTS OF VACCINATIONS.

It is right to say that a certain percentage (although possibly a small percentage) of the returns are unreliable, as they include data from more or less illiterate native vaccinators.

(b) EUROPEAN OFFICIALS.

SOUTHERN NIGERIA.

TABLE SHOWING THE SICK, INVALIDING AND DEATH RATES OF EUROPEAN OFFICIALS.

			1911.	1912.
Total number of Officials resident			1,372	2,068
Average number resident			595	801.2
Total number on sick list			461	709
Total number of days on sick list			4,525	5,285
Average daily number on sick list			12.4	14.4
Percentage of sick to average number resid	lent		77.4 per cent.	88.49 per cent.
Average number of days on sick list for ea		ent	9-8	7-4
Average sick time to each resident			7.6	6.5
Total number invalided			41	57
Percentage of invalidings to total residents			2.9	2.75 per cent.
Total deaths			9	9
Percentage of deaths to total residents			0.6 per cent.	0.43 per cent.
Percentage of deaths to average number re	sident		1.5 per cent.	1.12 per cent.
Number of cases of sickness contracted residence		from 	-	-

WESTERN PROVINCE.

TABLE SHOWING THE SICK, INVALIDING AND DEATH RATES OF EUROPEAN OFFICIALS.

and the second second second second second	1911.	1912.
Total number of Officials resident (including railway		
extension)	908	967
Average number resident	373	561
Total number on sick list	157	372
Total number of days on sick list	1,413	2,562
Average daily number on sick list	3.8	•7
Percentage of sick to average number resident	42.1 per cent.	66.3 per cent.
Average number of days on sick list to each patient	9	6.8
Average sick time to each resident	4.7	4.5
Total number invalided	28	40
Percentage of invaliding to total residents	3.08 per cent.	4.1 per cent.
Total deaths	7	5
Percentage of deaths to total residents	0.77 per cent.	0.5 per cent.
Percentage of deaths to average number resident	1.8 per cent.	0.89 per cent
Number of cases of sickness contracted away from		-
residence	-	

CENTRAL PROVINCE.

TABLE SHOWING THE SICK, INVALIDING AND DEATH RATES OF EUROPEAN OFFICIALS.

		1911.	1912.
Total number of Officials resident		237	594
Average number resident		94-4	99
Total number on sick list		141	159
Total number of days on sick liss		807	1,332
Average daily number on sick list		2.2	3.6
Percentage of sick to average number resident		149.3 per cent.	160.6 per cent.
Average number of days on sick list for each pa	tient	5.7	8.3
Average sick time to each patient		8.5	13.4
Total number invalided		3	10
Percentage of invaliding to total residents		1.2 per cent.	1.68 per cent.
Total deaths		2	1
Percentage of deaths to total residents		0.8 per cent.	0.16 per cent
Percentage of deaths to average number residen	t	2.1 per cent.	1.01 per cent
Number of cases of sickness contracted awa			
residence			-

EASTERN PROVINCE.

TABLE SHOWING THE SICK, INVALIDING AND DEATH RATES OF EUROPEAN OFFICIALS.

		1911.	1912.
Total number of Officials resident		0.0-	507
		227	
Average number resident		127.6	141.2
Total number on sick list		163	178
Total number of days on sick list		2,305	1,391
Average daily number on sick list		6.3	3.8
Percentage of sick to average number resident		127.7 per cent.	125 per cent.
Average number of days on sick list for each patie	ent	14.1	7.8
Average sick time to each resident		18	9.8
Total number invalided		10	7
Percentage of invalidings to total residents		4.4 per cent.	1.38 per cent.
Total deaths		0	3
Percentage of deaths to total residents		0	0.59 per cent.
Percentage of deaths to average number resident		0	2.1 per cent.
Number of cases of sickness contracted away	from	A DESCRIPTION OF THE PARTY OF T	
residence			

INVALIDING OF EUROPEAN OFFICIALS, 1912.

CAUSES.

Western Province.

		Cases.	. Cas	es,
Bronchial Asthma		1	Tubercle 2	
Arterial Sclerosis		1	Peripheral Neuritis 5	
Cardiac Disease		2	Otitis Externa 1	
Colitis		3	Conjunctivitis 1	
Fracture of Clavicle	and		Jaundice 1	
Injuries		1	Osteoarthritis 1	
Alcoholism		4	Renal Calculus 1	
Nephritis		1	Hemiplegia 1	
Insomnia		2	Anæmia following Black-	
Anæmia		4	water 1	
Heat Apoplexy		1	General Paralysis 1	
Delusional Insanity		1		
Appendicitis		1	Sub-acute Rheumatism 1	
Neurasthenia		1		
real astronia				

TOTAL 40 CASES.

Central Province.

Iritis	 	1	Blackwater Fever	 	2
Peripheral Neuritis	 	1	Heart Disease	 	1
Delusional Insanity	 	1	Dysentery	 	2
Chronic Arthritis	 	1	Bronchitis	 	1
	Т	OTAL 1	0 CASES		

Eastern Province.

Renal Calculus Blackwater Fever	 		Malaria and Anæmia after Blackwater Fever 1	
Hepatitis	 		Debility, following Dysentery 1	
Functional Disorder			Gastric 1	
	Т	OTAL 7	Cases.	

DEATHS OF EUROPEAN OFFICIALS, 1912.

CAUSES.

Foror

WESTERN PROVINCE.-Heart failure following Blackwater 1 (West Indian)

CASE

		rever				 I (west Indian)
		Hepatic Abs	cess			 1
		Heart Failur	re			 1
		Suicide (Ten	porary	Insa	nity)	 1
		Drowning				 1
CENTRAL	PROVINCE	-Phthisis				 1
EASTERN	PROVINCE	-Diabetes				 1
		Heat Stroke				 1
		Malaria				 1
					TOTAL	 9

INVALIDINGS AND DEATHS OF NATIVE OFFICIALS.

The Provincial Returns show a total of 3,523 resident Native Officials.

INVALIDINGS.

					CASES.
WESTERN P	PROVINCEPhthisis				 2
	Cataract				 1
	Chronic R	heumat	ism		 1
CENTRAL P	PROVINCEBright's D	isease			 1
EASTERN P	PROVINCEInsanity				 1
	Heart Dis	ease			 1
	Hemiplegi	a			 1
	Phthisis				 1
	Chronic R	heumat	ism		 1
	Liver Abs	cess (af	terwar	ds died)	 1
				TOTAL	 11

12

			CASES.
WESTERN PROVINCE	-Phthisis		 2
	Convulsions		 1
	Dysentery		 1
	Pernicious Anæmia		 1
	Malarial Fever		 1
	Cerebral Embolism		 1
	Bronchitis		 1
	Not registered		 1
CENTRAL PROVINCE	-Dysentery		 1
	Cerebral Hæmorrhage		 1
	Mitral Disease of Hear	t	 1
EASTERN PROVINCE	-Liver Abscess		 1
	Heart Disease		 2
		TOTAL	 15

DEATHS.

INVALIDINGS AND DEATHS OF EUROPEAN NON-OFFICIALS.

INVALIDINGS.

C

					CASES
WESTERN PROVINCE	Malaria				 2
(5 cases)	Dysentery				 1
	Blackwater	Fever			 1
	Laryngitis				 1
CENTRAL PROVINCE	-Dysentery				 1
(11 cases)	Suppurating	, Lympl	hatic	Glands	 2
	Hepatitis				 1
	Anæmia				 1
	Malaria				 3
	Boils				 1
	Fistula				 1
	Bright's Dis	ease			 1
EASTERN PROVINCE	Malaria				 5
(16 cases)	Malarial An	aemia a	nd D	ebility	 1
	Blackwater	Fever			 4
	Alcoholism				 1
	Colitis				 1
	Rheumatoid	Arthri	itis		 1
	Neuritis				 1
	Cardiac				 1
	Neurastheni	ia			 1
				TOTAL	 32

	LINAID	0.		
				CASES.
WESTERN PROVINCE				 1
(10 cases)	Cardiac Failure			 1
	Pneumonia			 1
	Apoplexy			 2
	Myocarditis			 1
	Blackwater Fever			 1
	Cerebral Tumour			 1
	Hyperpyrexia			 1 (In Lagos Roads)
	Fracture of Skull			 1 (Syrian)
CENTRAL PROVINCE	Malaria			 3
(9 cases)	Dysentery			 1
	Blackwater Fever			 2
	Liver Abscess			 1
	Congestion of Brai	n		 2
EASTERN PROVINCE				 1
(7 cases)	Rabies			 1
	Dysentery			 1
	Beri-Beri			 1
	Septicæmia			 1
	Pneumonia			 1
	Pernicious Anæmia			 1
			TOTAL	 26

DEATHS.

GENERAL POPULATION.

Vital Statistics.—No reliable statistics of the total population of Southern Nigeria are available since those afforded by the Census of 1911, which were quoted in the Annual Medical Report for that year. If, however, an estimate of five per cent. increase in the native population be assumed during the year 1912, the total native population of Southern Nigeria would be 8,248,536.

Total Births and Birth Rates .- Registration not compulsory except in the Colony.

Total Deaths and Death Rates.—Registration not compulsory except in the Colony.

Infantile Mortality.-Registration not compulsory except in the Colony.

Statistics for Lagos and Ebute Metta are shown below.

		Dist		Death			DE	THS.			Total		Total Still- births	
YEAR.	Total Births.	Birth rate per 1,000.	Total Deaths.	rate per 1,000,	Under 1 yoar.	Rate per 1,000,	Between 1 and 2 years.		Between 3 and 4 years.	Bet- weeu 4 and 5 years.	Deaths under 5 years.	Rate per 1,000.	not in- cluded in Return.	Estimated Popula- tion,
	2,312		1,975	37.0	729	13.6	135	90	52	49	1,055	19.4	155	53,299
1910 1911 1912	2,389 2,430 2,391	44·2 39·8 39·1	1,937 1,873 1,829	35·8 30·7 29·9	$774 \\ 692 \\ 670$	14.3 11.3 10.9	78 74 108	61 54 50	54 38 29	44 31 35	1,011 889 892	18·7 14·5 11·3	$ \begin{array}{r} 123 \\ 132 \\ 118 \end{array} $	53,986 61,000 61,000

LAGOS.

EBUIE MEIIA.	EBUTH	E ME	TTA.
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		Birth	must	Death		Dratus.					Total		Total Still- births	Estimated
Year.	Total Births,	Rate per 1,000,	Total Deaths.	Rate per 1,000.	Under 1 year.	Rate per 1,000.	Between 1 and 2 years.	Botween 2 and 3 years.		Between 4 and 5 years.	under 5 years.	per 1,000.	not in- cluded in Return.	Popula- tson.
1909 1910 1911 1912	264 262 288 315	35-5 32-3 24-0 26-2	284 325 317 346	38-2 40-1 26-4 28-8	83 83 91 71	${}^{11\cdot 1}_{10\cdot 2}_{7\cdot 5}_{5\cdot 9}$	$ \begin{array}{r} 12 \\ 20 \\ 12 \\ 21 \end{array} $	11 4 4 10	1 7 2 6	2 2 7 11	109 116 116 119	$14.6 \\ 14.3 \\ 9.6 \\ 9.9$	21 17 22 28	7,417 8,104 12,000 12,000

LAGOS, 1912.

Number of de	aths of c	hildren	under	five ye	ars of a	age			892
Percentage of	deaths o	of child	ren un	der five	years	to tota	l numb	er of	
deaths									48.7
Death rate of	children	under	one yea	ar per 1	1,000 bi	irths			280.2

EBUTE METTA, 1912.

Number of dea	aths of c	hildren	under	five ye	ars of	age			119
Percentage of	deaths o	of child	ren uno	ler five	years	to total	numb	er of	
deaths									34.3
Death rate of	children	under	one yea	ar per l	1,000 k	oirths			225.3

(Signed) W. H. LANGLEY,

Principal Medical Officer.

LAGOS, May 30th, 1913.

III.—ANNUAL REPORT ON SANITATION FOR THE YEAR 1912. By Dr. ARTHUR PICKELS, Senior Sanitary Officer.

1. In looking back over the year 1912 I have no hesitation in saying that, as a result of the interest aroused in sanitary matters during the last few years and the increased amount of work which has been done in consequence, a considerable improvement can be noticed in general conditions everywhere. The changes effected are most evident in the large towns, where of course more money has been spent on labour, equipment and sanitary works, than in the bush stations, but in them also improvement is noticeable, the amount depending largely on the active interest taken by the local Executive Officers who thereby facilitate the work of the Health Officer and encourage him to continue his efforts.

ADMINISTRATION.

2. The Sanitary Officer, Dr. Laurie, was on leave when the year came in and until his return on January 21st the duties of his office were performed by Dr. Beatty.

On June 12th, I was called on in emergency to assume duty as Acting Principal Medical Officer until the return of the Honourable Dr. Langley, C.M.G. Dr. Laurie acted in my place and continued to do so till the year expired. Dr. Beatty took up duty as Sanitary Officer, vice Dr. Laurie, and he, completing his tour on August 1st, was in turn relieved by Dr. Mackinnon. Early in August the Honourable Principal Medical Officer returned, and having resumed the duties of his office I proceeded on leave on August 15th. The Chief Clerk in the office, who was on leave at the end of the year, resumed duty on As a result of the recommendation of the Honourable January 8th. Principal Medical Officer, three European Sanitary Inspectors were appointed. These men, who had previously belonged to the Royal Army Medical Corps, passed through a "refresher" course in sanitation, with special reference to work in tropical countries, before leaving England in order that they might be better fitted for the duties they would have to perform on their arrival here. The first of these Officers assumed duty on May 2nd, the second on July 17th, and the third on October 24th. The services of these men have been found of great advantage; one has always been in Lagos assisting the Medical Officer of Health, who informs me that the work of inspection in the Municipal area has been carried out in a much more complete manner than was formerly possible ; a second, in reference to whose work I have received very encouraging reports, has been for a considerable period in Calabar; and the third has been working under the direction of the Health Officer at Forcados and Burutu, this being the most important shipping centre in the Colony.

Approval for the appointment of four Native Sanitary Inspectors in the Western Province was granted, and by the kindness of the Medical Officer of Health, Lagos, we were able to obtain four partially trained men from among the Junior Assistant Inspectors in that town. These men were sent to Ibadan, Aro, Epe and Badagry respectively. In addition, three were appointed and paid by the Railway Authorities to devote their attention to the surroundings of the stations on the line.

STAFF.

3. The personnel of the Sanitary Branch of the Medical Department consists as follows, viz. :--

European... Two Sanitary Officers. Three Sanitary Inspectors. Native ... One First Class Clerk. One Second Class Clerk. One Messenger. Four Sanitary Inspectors. In addition there are in connection with Registration and Vital Statistics :---

One Registrar.

One Assistant Registrar.

4. In stations such as some of those in the Central and Eastern Provinces, where Medical Officers have to do a considerable amount of travelling, continuity of satisfactory work is difficult, and especially is this the case where there is no Sanitary Inspector. In out-of-the-way places—and unfortunately it is not limited to them—Inspectors of any ability are difficult to obtain, particularly at the salaries paid, and in fact practically all are taken on without having any previous training and have to learn what they can of the work afterwards.

VISITS OF INSPECTION.

5. It has been our endeavour to visit all the stations in the Colony and Protectorate during the year, but this has not been found practicable.

All stations in the Western Province have been inspected on one or more occasions as opportunity or necessity arose, and visits have been paid to both the other Provinces, in the course of which all the most important towns were inspected and in addition a number of the smaller stations.

The Sanitary Officer, Dr. Laurie, made a prolonged tour in the Eastern Province, but unfortunately his visit had to be cut short as his services were required in Lagos.

The necessity for a Sanitary Officer to be always either in Lagos or within easy call renders prolonged tours rather difficult to carry out with the present staff.

ORDINANCES, ORDERS, ETC.

6. The following Ordinances have been passed, and Orders made under previously existing Ordinances, during the year, viz :---

ORDINANCES .-

1. Public Health (Amendment) Ordinance.

Confers on Sanitary Officers the powers of Health Officers in the Colony and Protectorate.

- 2. Births, Deaths and Burials (Amendment) Ordinance.
 - Regulations *re* vaults, graves and the keeping of plans of burial grounds.
- 3. The Buildings Regulation Ordinance, 1912.
 - To regulate the line of buildings in streets or roads not affected by the Roads and Creeks Ordinance or by the Public Health Ordinance.

ORDERS IN COUNCIL-

- Under the Prisons Ordinance. Forcados added to the list in Order No. 6 of 1909.
- 2. Under the Foreign Jurisdiction Ordinance.

Provisions of the Towns (Regulation) Ordinance applied to all land within half a mile of all railway stations in Ibadan territory.

3. Under the Roads and Creeks Ordinance.

The provisions applied to certain roads in the Aba and Bende Districts.

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4. Under the Dogs Ordinance.

The provisions applied to Warri, Efferun and Adeji.

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- Under the Destruction of Mosquitoes Ordinance. The provisions applied to certain parts of a number of Districts in the Central Province.
- 6. Under the Roads and Creeks Ordinance.

The provisions applied to certain roads in the Abak and Obudu Districts.

7. Under the Prisons Ordinance.

The prison at Ogwashi-Oku declared a prison.

8. Under the Burials Ordinance.

The Christian cemetery at Creek Town declared a public burial ground for aliens and natives of the Christian faith.

9. Under the Roads and Creeks Ordinance.

The provisions applied to certain roads and the Aba River in the Aba District, and to certain roads in the Kwale District.

10. Under the Dogs Ordinance.

The provisions applied to a number of towns and districts in the Central and Eastern Provinces.

- Under the Prisons Ordinance. Shagamu Prison closed.
- Under the Harbour Regulations Ordinance. The provisions applied to Forcados, Calabar, Bonny and Opobo.
- 13. Under the Roads and Creeks Ordinance.

The provisions applied to certain roads in various Districts in the Central and Eastern Provinces.

VOTES IN THE ESTIMATES CONTROLLED BY THE SANITARY OFFICE.

7. The Vote in the Estimates for 1912 placed under the control of the Sanitary Office was one of $\pounds1,000$ —"General Sanitary"—but in addition there was a special one of $\pounds590$ —a re-vote from the previous year—for works under the Ibadan sanitary scheme.

Of the former, papers relating to the expenditure of over £800 were passed before the Honourable Colonial Secretary before the money was spent, and a sum of £44 remained unexpended at the end of December. As the revote of £590 for the Ibadan sanitary scheme did not become available till May it was only possible to expend the sum of £475, and the remaining works which could not be undertaken had to be put off till 1913.

In the Central and Eastern Provinces the ordinary sanitary expenditure was under the control and direction of the Provincial Medical Officers, but several additional sums were sent to various stations from the "General Sanitary" vote to assist in necessary sanitary work, clearing, draining, filling-in, and for the construction of dustbins, rubbish kilns, etc.

ESTIMATES.

8. The Estimates for 1913 were prepared according to the directions contained in Despatch No. 65 of January 24th, 1911, and sent in showing the requirements for each place.

PREVENTIVE MEASURES.

MOSQUITO AND INSECT-BORNE DISEASES.

9. Anti-Mosquito Work.—The provisions of the Destruction of Mosquitoes Ordinance have been applied by Order in Council to a number of places in the Protectorate which had not been previously affected by it.

As will be seen from the figures in the tables attached, the special antimosquito work has been carried on with steady perseverance, and, I think, considering the results shown, with considerable success. The number of house-to-house inspections made in the Colony and Protectorate has gone up nearly 200,000, and in consequence of this and the increasing knowledge and vigilance of the Inspectors the Mosquito Index has gone down from 11.1 in 1911 to 5.06 in 1912. In Lagos itself the Index has been reduced from 13.1 to 5.4 which is very satisfactory. In fact, it has been reduced in almost all places, in some instances to a remarkable degree.

These results speak for themselves in regard to the care and attention devoted to this work by Health Officers and Inspectors all over the country.

During the year summonses have been taken out in 2,516 instances and fines to the amount of £1,071 12s. 6d. have been paid.

In Lagos, although no summons is ever asked for until repeated cautions have been given, the number applied for at one part of the year became so great as to exceed the powers of the Court to deal with them, and nearly 2,000 applications had to be cancelled.

Another difficulty was found in reference to Government Departmental yards and property, it proving impossible to fix responsibility on anyone when larvæ were found on that property.

Even when larvæ are found in a house or compound it is very rare nowa-days to find more than one receptacle containing them, and without doubt more care is taken in this matter by the individual than was the case twelve months ago.

At Ibadan, inspections have been made possible, but from Abeokuta no records are obtainable and, as far as I am aware, there is no systematic inspection work done and the Staff is quite inadequate to deal with the matter. This, of course, means that Abeokuta, over which we have no control, is a source of danger to every other place in the Colony and may eventually be the cause of quarantine being enforced against Lagos in spite of all the precautions which are being taken.

At Forcados, the chief shipping entrance of the Colony, the Index has decreased but conditions are very adverse.

ROOF GUTTERING.

10. Roof gutterings, which are without doubt great mosquito breeding places, still have to be continued in most places, and although they are all pierced at intervals it is found necessary to have them regularly cleaned, and this is done according to the directions of the Local Health Officer. In Lagos a special permanent gang is engaged in continually going round cleaning them, but unfortunately the ladders, unless placed very carefully, have a tendency to cause, or increase, sagging, as the guttering with its supports has not sufficient strength to resist the pressure of the ladder when in use without bending.

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BARRELS.

11. Lagos and Forcados are the only places where rain water is collected to any extent in barrels, and it is solely in these towns that the work of rendering them mosquito-proof is carried on. In many cases taps have also been fitted at the same time.

OILING.

12. The method of dealing with mosquito breeding places by means of kerosine, etc., is adopted in all stations where other and more permanent methods cannot be carried out; and in canoes, on account of a certain amount of water having to be kept in them, it is found most useful. Pump sprays have been obtained and distributed to all the chief towns in the three Provinces, where they have facilitated the work, economised oil and proved very effectual.

RECLAMATION.

13. Very good results have been obtained by means of the dredger, manual labour and the ashes from rubbish kilns.

In Lagos over 12 acres of the Oke Suna swamp have been reclaimed with good sand, and it is unfortunate that the work could not be carried on to completion. The statement recorded in my last Report that the remainder of the Kimberley swamp would be completed by manual labour has not been realized, and the breeding places left have to be regularly treated with oil. This area is a menace to the health of the occupants of the European official quarters in the neighbourhood.

By means of the ashes obtained from the kilns considerable areas of insanitary ground have been raised to a suitable height, the foreshores on the north side of the island have been greatly improved and owners of land behind them are expending money to raise their property to a suitable level as they see the result of their outlay will now be permanent. At Badagry and Epe the kilns which were constructed some time ago have been found very useful for the same purpose as in Lagos.

At Forcados, Burutu, Bonny, Opobo, Calabar and other places reclamation has been carried on according as funds would permit.

MOSQUITO PROOFING.

14. As will be noticed from the tables a number of houses have been made either wholly or partially mosquito-proof during 1912. In one or two places mosquito-proof rooms are reported to be greatly appreciated, but it cannot be said that this most important method of protection is making much headway.

It certainly appears hardly worth while expending money on mosquitoproofing a bungalow if an occupant be permitted to remove the gauze.

Those, however, who have accustomed themselves to the proper use of mosquito-proof apartments—and that process must be gone through at first—are their greatest appreciators and supporters.

It must always be remembered that to obtain efficiency of protection, together with the greatest possible amount of air and light at the same time, absolute protection against rain is, as far as I can see, an impossibility and this must be recognised. We cannot have everything.

As yet neither Sanitary Officer has been provided with an opportunity of practising what he preaches in this matter.

MALARIA.

15. It will be seen that there is a distinct increase in the number of cases of Malaria reported from the Central and Eastern Provinces, both in Europeans and Natives, while in the Western Province there is a decrease in both classes.

The death rate among Europeans for this disease is 5 per 1,000 cases treated, and among Natives 3.1 per 1,000.

BLACKWATER FEVER.

16. Altogether there have been fewer cases of Blackwater Fever recorded than in 1911, and the diminution is specially to be remarked in the Western Province. In the Central Province the number, which last year was very low, has returned to about its previous average.

Calabar still shows a clean bill in reference to its European inhabitants, all the cases which have been treated there having occurred in persons resident elsewhere.

The average fatality from this affection shows a decrease from $32^{\circ}2$ per cent. of the cases treated in 1909 to $17^{\circ}4$ per cent. in 1912.

QUININE PROPHYLAXIS.

17. During the year there has been a very distinct decrease in the issue of quinine for prophylactic purposes, and this may partly be accounted for by its having been given out in smaller quantities than in former years when, although it very possibly was not all taken by the individual to whom it was given, the advantages derivable from the whole quantity were not lost. The amount issued for this purpose is shown in grains in the following table.

oyun ozara salan	1910.	1911.	1912.	
Western Province Central Province Eastern Province	 1,206,000 140,532 400,671	1,530,100 229,963 586,384	$\substack{1,344,000\\355,448\\301,286}$	186,100 decrease. 125,485 increase. 285,098 decrease.
TOTAL	 1,747,203	2,346,447	2,000,734	345,713 decrease.

ANTI-PLAGUE.

18. The measures which have been taken against Plague have been more vigorously prosecuted than formerly. In Lagos alone 26,874 rodents have been destroyed, giving an average of 73 per day against 34 per day in the previous year. Requisitions for traps have been received from other places and have been complied with as far as possible.

TRYPANOSOMIASIS.

19. Only a very few cases of this disease have been reported from the vast majority of stations, and in the Western Province none has been seen at all. At Eket, near Calabar, the presence of the disease was reported by Missionaries and in consequence a Medical Officer was sent up to investigate, who now reports having seen 149 cases, this being out of a total of 154 recorded in the whole Colony. A camp was formed at this station and an area cleared all round it. Huts were erected for the accommodation of patients who have to supply their own food and therefore come in and go out at their option.

The Medical Officer states that cases are commonly met with apparently undergoing spontaneous cure, which he appears to consider the usual termination of the disease in this area. From observations and enquiries he estimates the death rate at about 5 per cent. Examination of the blood of animals in this district showed the presence of trypanosomes in dogs and rats only (*T. Brucei* and *T. Lewisi* respectively). At Ikot Ekpene the Medical Officer has also made investigations in regard to the prevalence of trypanosomes in animals, and found that pigs, among which the death rate was high, were largely infected, but the examination of the blood of sheep and goats gave negative results.

I am inclined to the view that with more minute investigation the affection will be found more widely distributed than is at present recognized, and in districts where the tsetse is specially prevalent the blood of European Officers should, I think, be periodically examined.

YELLOW FEVER.

20. Yellow Fever is the only disease which has been reported under the Paris Convention from any port on the Coast. On each occasion special precautions were taken to prevent the introduction of the disease into the Colony, and fortunately no case has been observed.

As a result of the outbreak of the affection in Dahomey in June and its proximity to our western boundary a Medical Officer was sent to investigate along the border from Badagry to Meko and to ascertain, if possible, whether any trace of the disease could be found in the villages or towns in that part of the country, but no information could be obtained indicating its presence.

A scheme was drawn up showing in detail the methods to be adopted should an outbreak occur in Lagos, under which the services of a number of European volunteers would be utilized. The measures to be taken should Porto Novo be declared an "infected" port were also considered.

The mosquito nets of all European Government Officials were systematically inspected and new ones requisitioned for where necessary; the mercantile firms were also circularized on the same matter, visits were paid and advice given.

His Excellency the Acting Governor, both by his personal influence and by making the necessary financial arrangements, provided every facility for carrying out protective measures. He immediately ordered the mosquitoproofing of the European wards in the Hospital to be completed according to requirements, and arrangements were also made in the native wards for the treatment of native patients under proper conditions.

I should like to add, in connection with this mosquito-proofing, that since the European wards were treated in this way, I have never heard anything but the greatest appreciation expressed for the comfort thus afforded.

FILARIASIS.

21. Ninety-six patients have presented themselves for treatment on account of Filarial disease, over 60 per cent. of whom, including four Europeans, were in the Eastern Province.

The disease is reported to be more prevalent than the numbers indicate, as many sufferers never present themselves to a Medical Officer to obtain relief.

EPIDEMIC DISEASES.

GENERAL.

22. The Colony and Protectorate have been very free from epidemics of disease during the year, no outbreaks of any serious character or extent having occurred.

Gaol Dropsy was reported from the prison at Abeokuta early in the year, and a number of cases ended fatally.

The patients were removed to the Quarantine Station at Lagos, where with change of air and surroundings, a stimulating diet and other treatment, many recovered.

Several outbreaks of infectious disease have been reported under the Paris Convention as the following list shows, both in places near at hand and in ports which did not directly affect Southern Nigeria :

PLAGUE		 Durban	 January.
,,		 Liverpool	 November.
			 April, June and August.
,,	,,	 Sekondi	 May.
,,	,,	 Abomey	 June.
,,	,,	 Porto Novo	 June.
,,	,,	 Dakar	 December.
"	,,	 Axim	 December.
CHOLERA	1	 On the Tyne	 November.

PLAGUE AND CHOLERA.

23. Neither Plague nor Cholera has been reported from any place to cause us any anxiety, and no cases have come under observation in the Colony giving rise to any suspicion of either of these diseases.

ENTERIC FEVER.

24. I see from the annual returns sent in that two cases of this disease have been recorded and treated in Lagos, one European and one native having been affected.

VARIOLA.

25. Only 77 cases of Small Pox have come under observation in the whole Colony during the year, but I fear that even in the most advanced towns cases occur which are never reported, and the apparent difference between the numbers of males and females affected also point to this being the case.

VACCINATION.

26. During my tours of inspection I have made a few observations on the proportion of children vaccinated and am forced to the conclusion that there are still large numbers unprotected, even in the large towns.

VARICELLA.

27. There have, unfortunately, been several outbreaks of Chicken Pox in various places during the last twelve months.

The prisons are very liable to epidemics of this affection, and under present conditions it is not an easy matter to get them clear again.

Calabar again accounts for a very large proportion of the cases—36 per cent. of the whole.

RABIES.

28. I regret to say that two cases of Rabies have been met with, one at Bonny and one at Eket.

By Order in Council the provisions of the Dogs Ordinance were applied to these and other Districts in the Eastern Province.

DYSENTERY.

29. The number of cases of Dysentery observed shows a considerable rise, the increase being in the Eastern and Central Provinces. The cases in both Warri and Calabar are more than double the numbers in 1911, August to October being apparently a particularly unhealthy period in relation to both this disease and Diarrhœa.

VENEREAL DISEASE.

30. Venereal diseases appear, unfortunately, to be making headway. More patients present themselves for treatment but they do not sufficiently realize, in spite of the instructions given, the serious consequences which may result both to themselves and others of the community from not continuing that treatment to its proper termination, and as a result the disease is propagated.

TUBERCULAR DISEASE.

31. More patients suffering from Tubercular disease are now seen than used to be the case but there are no statistics available to show whether it is simply that more of the sufferers are coming for treatment or that the affection is really increasing; some Medical Officers appear to hold the opinion that the latter is the correct view.

HELMINTHIC DISEASES.

32. Helminthic diseases account for a large proportion of the patients who present themselves for treatment at the Government Dispensaries.

ASCARIS LUMBRICOIDES.

33. Ascaris is by far the most common worm which leads to complaint. Ibadan and Lagos account for over 70 per cent. of the recorded cases, and in the Western Province over 80 per cent. of the total cases were seen.

It is to be hoped that these large numbers will be considerably reduced when the water supply is brought to Lagos, and if the suggestion for a supply for Ibadan were financially possible very great improvement would doubtless result.

DRACUNCULUS MEDINENSIS.

34. There is a gratifying decrease in the number of cases of Guinea Worm which have come under observation.

The cases in Government servants who were sent to Okwoga, where the disease was previously unknown, were carefully looked after, and no secondary cases have been heard of.

BILHARZIA.

35. No case of *Schistosomum Hamatobium* has been recorded, although the parasite is undoubtedly present and a number suffer from it without taking any serious notice of the symptoms.

ANKYLOSTOMIASIS.

36. Calabar accounts for a large proportion of the cases of Ankylostomiasis, just as Sapele did the previous year, and this favours the supposition that it is more a question of observation than difference of distribution.

GENERAL MEASURES.

SEWAGE DISPOSAL.

37. More care and attention is now given to this important question than was formerly the case.

The methods described in previous reports are still adopted in the various places. The use of a large hole is not approved, but, it being simpler and easier than daily trenching, there is always a tendency to revert to that method unless adequate supervision is given.

Dumping into large rivers or the sea is the usual practice wherever possible.

In one or two places, where money cannot be obtained for more costly arrangements, long pits are dug and used as latrines, and these have been found cheap and a distinct improvement on the promiscuous use of the bush close to villages and towns; discretion must, however, be exercised before sanction is given for their use.

In Lagos there has been no alteration in the nightsoil arrangements; a new depôt to replace the one at present in use has been erected in a more open position at Alakoro but has not yet been used.

The work is carried out as satisfactorily as can be expected but a certain amount of nuisance is unavoidable at the depôt.

REFUSE.

38. Burning, after the tins and bottles, etc., have been roughly sorted out, has been found the most satisfactory method of dealing with rubbish and refuse, and a number of kilns have been erected in various parts of the Colony with this object.

In places where the sea or large rivers are available they are utilized, and the material either thrown from wharves or else taken in canoes and dumped in the middle of the stream.

Disposal by burial is the method adopted in some instances, but this can only be done where the quantities to be dealt with are comparatively small.

The number of dustbins in the large towns, and in the smaller ones also, has been increased, and the people show a more definite appreciation of them than formerly.

WATER SUPPLY.

39. At the Iju, which I visited in company with the Honourable Principal Medical Officer, the Water Engineer took us all over the works and provided every facility for seeing what was being done.

Great progress is being made and it is hoped that early in 1914 a pipeborne water supply in Lagos will be an accomplished fact.

Difficulty, the result of expense, exists as to the method of control of the catchment area, but this will, I trust, soon be overcome, as it is necessary that the area be brought into a suitable sanitary condition as soon as possible.

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The extension of the pipe-borne supply to all the town of Calabar is under consideration.

At Ibadan the reservoir supplies a number of stand pipes in the railway compound. The amount of water here collected could, without much difficulty, be largely increased, and if the catchment area received attention, were gradually cleared of farms and steps taken to protect it, the supply should become considerably improved. The engine house containing the pumping machinery has unfortunately been placed close to the water's edge on one side. At the Residency end of the town, water is obtained from a spring and pumped up the hill to the quarters in the vicinity ; the supply could, I think, be considerably increased and utilized to advantage.

The reservoir at Oshogbo, the water from which is mostly used for railway purposes, supplies a few stand pipes in the railway compound.

At Aro the installation of a distillation plant is, I understand, contemplated.

The waterworks at Abeokuta are rapidly approaching completion, and a water supply, which is badly required, will soon be provided.

An estimate has been made for a pipe-borne water supply for Itu on the Cross River, and I trust it will be found possible to provide the necessary funds—£4,000, I believe.

In Lagos itself there are about 500 wells. One hundred and one are public and maintained by the Lagos Municipal Board, but only 19 of these are mosquito-proof. Special attention is paid to the cleansing and proper maintenance of these public wells, there being an organized gang, with an overseer, employed for the purpose.

In addition to tanks, rain water is collected in barrels, of which there are over 1,000 in use, although only 326 are mosquito-proof.

In several stations where the supply is obtained from springs, protected concrete basins have been constructed, and water is collected before there is any opportunity for contamination after its exit from the ground.

FILTERS.

40. The attention which is necessary if filters are always to be kept in an efficient state is, I fear, very rarely given, and I gather that only a very small percentage of those who habitually use them ever sterilize the candles.

DRAINAGE.

41. As will be seen from Table IV., the work of constructing drains and maintaining them in a satisfactory condition has been steadily persevered in.

In Lagos almost a mile of masonry drains has been laid. The scheme of the Municipal Engineer is being gradually carried out, and the only regret is that there is not more money available. These drains are greatly appreciated by the people living in the houses adjoining them, who do not hesitate to go to considerable expense in making channels in their yards and connecting them up with the outside drain in accordance with the directions of the Engineer.

On the north side of the island reclamation and grading have in many cases to be carried out previous to drains being laid and this also applies to what was Alakoro Island and Swamp where, after filling in, proper grading was not done. A system of subsoil drainage has been put down on the race-course, and the subsoil pipes converge towards and open into a covered drain leading to the Lagoon. This should lead to a very considerable improvement during the coming rains.

Warri has also made considerable progress in drainage work, and at Onitsha, Benin City, Calabar and Opobo considerable and very necessary work has been done.

CLEARANCE OF BUSH.

42. It is very gratifying to note the increased amount of clearing which has been done all over the Colony.

			Area reported cleared.			
			1911.	1912.		
Western Province		 	 877,890	2,377,560		
Central Province Eastern Province		 	 609,900 972,629	3,779,660 7,461,973		
Tor.	AL.	 	 2,460,419	13,619,193 sq. yards.		

This work, if steadily persevered in, will have considerable influence in improving the general health at the various stations.

INFECTIOUS DISEASES HOSPITALS.

43. Lagos.—The buildings in connection with the new hospital on Ikoyi Plain are nearly completed and will soon be ready for occupation. This will allow of the old institution, which is close to the new European quarters, being pulled down.

Ibadan.—No further steps have been taken in regard to the provision of any form of accommodation on the site selected.

Calabar.—A pipe-borne water supply at this hospital has been arranged for, but has not yet been installed.

Yaba.—In reference to the Leper Asylum at Yaba, I have not yet heard if any decision has been arrived at as to its removal, which was suggested some time ago.

QUARANTINE STATIONS.

44. The question of providing a single properly equipped quarantine station sufficient to meet the requirements of the whole Colony has been considered and the opinion was formed that it should be situated at Forcados.

In Lagos some anxiety has arisen as to the future security of the station on account of the encroachment made by the sea in consequence of the commencement of work on the western mole of the Harbour Works. The only occasion on which this station was occupied during the year was when the sick prisoners were sent down from Abeokuta. At Bonny nothing has, I understand, been done with the factory which was purchased with the object of providing accommodation for isolation purposes. The station at Calabar was in a very unsatisfactory condition early in the year, and very considerable expenditure will have to be incurred to make it in any way possible,

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At Forcados, I am informed, several minor improvements and repairs have been carried out; but until the question of a single station has been decided no large expense will be contemplated.

SITES AND PLANS.

45. A large number of plans of buildings have been submitted, examined, and suggestions made, with the result that the great majority have been approved.

SANITARY INSPECTORS.

46. No definite scheme has yet been brought into action for the instruction and payment of Sanitary Inspectors, and men are still being employed for this work who simply look on it as something to carry on with.

PRISONS.

47. In the attached Table (XII.) are shown, in reference to a number of prisons, details relating to average area, average cubic cell space and average ventilation area per prisoner, calculated on the average number of prisoners per night for the year. Considerable work has been done to render the general sanitary conditions of many of the prisons more satisfactory, and there is no doubt that much improvement has been brought about; yet it will be observed that in some instances the ventilation area per prisoner is very greatly below even the lowest standard which could possibly be adopted. More attention has been given to the water supply for prisoners, and in many places special apparatus has been installed in order that the water used for drinking and cooking may be thoroughly boiled and carefully stored till required, without the possibility of its being contaminated in any way.

SLAUGHTER-HOUSES.

48. A slight increase in the number of slaughter-houses is to be noted.

In Lagos, although under the Ordinance all cattle are supposed to be slaughtered at the appointed place—which is not on the island—yet on many occasions cattle are seen being brought into the town, but never have I heard of anyone seeing any being taken out.

MARKETS.

49. Nothing further has yet been done in the matter of providing adequate general market accommodation in Lagos, with the result that the streets are becoming more used than ever for the purpose. The whole question of general markets, inspection and slaughtering of animals for food, meat inspection, transport of meat to the markets and the provision of suitable and protected meat markets is one which requires to be thoroughly grappled with in the interests of the whole community.

CEMETERIES.

50. Although there is a Burial Ordinance which directs that all burials in the Colony shall occur in definite and selected portions of ground, it is not strictly enforced, as even in Lagos burial in compounds is periodically authorized for political reasons.

BUILDING RULES.

51. In Lagos the Building Rules have been found of considerable advantage, and plans in relation to 453 new structures have been dealt with, of which 133 were prepared gratis in the Municipal Engineer's office. The objections previously raised against the regulations have been gradually overcome.

SEGREGATION.

52. It is interesting to note that at Calabar, where the most successful attempt at segregation has been made, there has been no case of Blackwater Fever among the European residents for four years, and when we consider Yellow Fever this question becomes one of paramount importance, on account of the high mortality of that disease when Europeans are attacked.

LAGOS.

53. The work of improving roads and streets has been steadily progressing and the Marina has been macadamized for a considerable distance in that part where the traffic is most heavy. In all three miles of roadway has been constructed, and repairs over a length of six miles have been carried out.

The cutting of wide thoroughfares through the overcrowded parts of the town requires to be taken in hand and gradually proceeded with. Under the present system of carrying out public improvements the owners of properties in the improved areas contribute nothing towards the expense and the Municipal Engineer has put before his Board suggestions for dealing with small areas at a time which I trust may receive favourable consideration. Drainage work has been pushed on as far as funds have allowed, and it is hoped that within the next year the drainage of that part of the island which falls towards the Marina (to the south) will be completed. On the north side a great deal of grading will be necessary before a satisfactory drainage system can be constructed.

As I presume it is only a question of time before the whole of the drainage of Lagos comes under the direction and control of the Municipal Board, it is rather to be regretted that all drains are not constructed on the same lines, as those built with an earthenware invert give results superior to those obtained when concrete and cement only are used.

As soon as the pipe-borne water supply arrives the question of drainage will assume a more important character, and will require to be met in a more energetic manner than is the case at present.

CALABAR.

54. At Calabar the expenditure on sanitary work during the year has amounted to £1,285 1s. 6d.

There has been an European Sanitary Inspector stationed here for some time, and the staff of Native Inspectors has been increased.

The supervision of the sanitary work of the town requires more time than the Health Officer can give after he has carried out his other duties.

FORCADOS.

55. For a portion of the year one of the recently appointed European Sanitary Inspectors assisted the Health Officer in this town and at Burutu, and his services were found most useful.

The questions of housing accommodation and water supply are becoming of very distinct importance if the prosperity of the place is to advance.

TEACHING OF HYGIENE.

56. Hygiene is taught in the schools as a compulsory subject. The Medical Officers in many places visit the schools and speak to the pupils on sanitary subjects, and in some instances give definite lectures, also while travelling in their districts the **y** endeavour to spread knowledge of sanitation and arouse interest in the subject by talking to the chief and influential people in the towns through which they pass, at the same time pointing out practical illustrations of what they say.

The Sanitary Officers avail themselves of all opportunities of giving advice and instruction which occur during their journeys, and the European Sanitary Inspectors and the better stamp of Native Inspector in their house-to-house inspection also endeavour to arouse interest in the subject.

RECOMMENDATIONS.

57. A.—An increase in the number of dredgers capable of carrying out reclamation work, which is so badly needed in many places, would be of almost incalculable advantage.

B.—The appointment of at least one more Sanitary Officer is a matter which I strongly recommend.

C.—At Calabar the services of either a Medical Officer of Health or of an extra Medical Officer, preferably the former, are very necessary for the satisfactory carrying out of the sanitary work there.

D.—At Forcados the preparation of a satisfactory site for a Native town should be taken in hand at once, the present site and huts being unfit for living either on or in.

The best method of providing a suitable water supply is a matter which requires to be considered.

E.—In Lagos, markets, both general and special, are badly required. (See Para. 49 above.)

F.—A scheme for the education and payment of Sanitary Inspectors requires to be brought into force,

G.—All prison association cells should be inspected and certified for the accommodation of a certain number of prisoners and that number painted up over the door, the officer in charge being held responsible if that number is exceeded.

H.—It would, I consider, be a great advantage if the number of European Sanitary Inspectors could be increased to six, which would allow of two always being in Lagos, two available for other places and two on leave.

58. I wish before closing this report to acknowledge the assistance which has always been so willingly rendered me by the Junior Sanitary Officer, Dr. Laurie, and those Medical Officers who have at various times assisted in the work of this branch of the Medical Department, and also the care and attention given by the members of the office staff.

59. Attached I forward the following Tables, etc., viz. :--

SUMMARY OF SANITARY ROUTINE IN THE FOLLOWING PLACES IN THE COLONY AND PROTECTORATE.

Western Province.	Central Province.	Eastern Province.
Lagos.	Warri. Aboh.	Calabar. Eket.
Aro.	Forcados. Agbor.	Bonny. Ikom.
Ibadan I.	Sapele. Awka.	Opobo. Ikot Ekpene.
Ibadan II.	Onitsha. Okwoga.	Degema. Itu.
Oshogbo,	Benin City. Udi.	Brass. Obudu.
Epe.	Asaba. Idah.	Abakaliki. Ogoja.
Badagry.		Afikpo, Okigwi.
		Bende. Owerri.

ANTI-MOSQUITO WORK RETURNS, 1912.

TABLES SHOWING CASES OF MALARIA AND BLACKWATER FEVER.

TABLE SHOWING CASES OF INFECTIOUS DISEASES.

TABLE SHOWING CASES OF HELMINTHIC DISEASES.

TABLE SHOWING AVERAGE PRISON AREA, CELL CAPACITY AND VENTILATION AREA PER PRISONER.

TABLE SHOWING RESULTS OF SPLEEN EXAMINATIONS.

VITAL STATISTICS RETURNS.

TABLE SHOWING EXPENDITURE UNDER GENERAL SANITARY VOTE.

ARTHUR PICKELS, S.S.O.

May 27th, 1913.

WESTERN PROVINCE.

BY DR. W. F. MACFARLANE, Senior Medical Officer.

PUBLIC HEALTH.

GENERAL REMARKS.

The Tables of Diseases, Forms VI. and VII., show at a glance the number of cases treated at the various hospitals and dispensaries.

The chief causes of illness were :

Malaria				 	3,260	cases
Varicella				 	132	,,
Variola				 	102	,,
Diseases of	Alimen	itary S	ystem	 	6,840	. ,,
,,	Respira		,,	 	4,054	,,
,,	Nervou	IS	,,	 	306	
"	Cellula	r Tissu	es	 	1,556	,,
Dysentery		·	·	 	386	,,
Rheumatis	n			 	1,704	"
Parasites				 	2,763	"
Skin Diseas	ses			 	4,949	,,

In all 37,154 cases were treated at the various hospitals and dispensaries; 7 cases of Blackwater Fever occurred, of which two were fatal.

There were no cases of Yellow Fever or Trypanosomiasis.

Of the 102 cases of Variola, it should be noted that 69 were reported from the Railway Section of the Zungeru Extension, and did not actually occur in this Province.

There is a slight decrease of Malarial Fever as compared with that of last year.

It is satisfactory to note the much less frequent occurrence of Dysentery as compared with 1911.

Beri-beri--16 cases occurred.

Total vaccinations 104,133 (successful 62,768, unsuccessful 41,365).

Amount of quinine issued during year, 1,344,000 grs.

SCIENTIFIC.

The Medical Research Institute at Yaba is supplied with many specimens by Medical Officers, but it is found in this climate, especially during the rains, that flies become mildewed and spoilt very quickly, and are not of much good if not sent in immediately.

The Government Chemist moved to Yaba in May, 1912, and his laboratory is now established there.

The Railway Section entering Northern Nigeria has ceased to be under medical control from Lagos.

Great improvements have been made in the Lagos Hospital.

The European ward has been completely mosquito-proofed and painted, and an addition to the ward has been finished, and is now in use. The bath rooms are supplied with water from a tank on the roof. A dark room has been fitted under the European Ward. An X-Ray room has also been made, and an apparatus installed, with the exception of the motor generator, which has not arrived yet. The theatre floor has been relaid and hot water pipes put in; these are quite satisfactory.

(Signed) W. F. MACFARLANE,

Senior Medical Officer.

31/3/13.

CENTRAL PROVINCE.

By Dr. C. R. CHICHESTER, Provincial Medical Officer.

PUBLIC HEALTH.

1. General Diseases.—Nothing in the returns of patients calls for any very special comment.

2. Communicable Diseases.—Malaria is prevalent everywhere. It is rarely fatal.

Filariasis is undoubtedly common, but as few cases come before the Medical Officers the returns as to its prevalence are not trustworthy.

Trypanosomiasis is, from the returns, rare; yet one cannot but be anxious as to the future, having in view the roads and railways which are being made and the increasing traffic from province to province, from administration to administration.

Leprosy is far more common than would appear from the returns, especially in the north.

Yellow Fever has not shown itself during 1912, and there have been no cases of plague.

INFECTIOUS OR EPIDEMIC DISEASES.

Varicella has appeared in Sapele, Onitsha and Warri prisons. It is difficult to eradicate once it shows itself in a prison. But the mortality is nil. The dry season is the season of prevalence.

No serious outbreak of Small Pox has occurred, though there have been small and localised epidemics, *e.g.*, at Forcados and Idah.

The number vaccinated shows a notable increase over that shown in 1911.

HELMINTHIC.

Nematode worms are common. Ankylostomiasis is very prevalent, especially in the north. The disease is very chronic in character. According to my experience it greatly debilitates the people.

EUROPEAN OFFICIALS.

One died of Phthisis.

Ten were invalided, one for Iritis, one for Peripheral Neuritis, one for Delusional Insanity, one for Chronic Arthritis, two for Blackwater Fever, one for Heart Disease, two for Dysentery and one for Bronchitis.

Sixty-five entries appear on the sick list as suffering from Malaria and for a total period of 309 days.

SCIENTIFIC.

You have in your office for publication Dr. E. J. Wyler's report on Ankylostoma infection in the Udi district.

I attach a statement showing the quantity of quinine issued for prophylactic purposes; also vaccinations performed in the Central Province during the year 1912.

I have the honour to be, Sir,

Your obedient Servant,

(Signed) CHAS, R. CHICHESTER,

Provl. Medical Officer, C.P.

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6

EASTERN PROVINCE.

By Dr. W. H. G. H. BEST, Provincial Medical Officer.

ADMINISTRATIVE.

The Medical Staff consisted of :--

1 Provincial Medical Officer.

1 Senior Medical Officer.

20 Medical Officers, of whom 2 were seconded for military duty on Patrols.

The following changes took place during the year :--

RESIGNATION	 Dr. H. de C. Dillon.
INVALIDED	 Dr. F. J. A. Baldwin, Dr. R. W. Gray.
DEATH	 Dr. E. H. Read, Senior Medial Officer.

PUBLIC HEALTH.

(a) GENERAL REMARKS.

Communicable diseases	s. Mosquito or Insect borne.
Malaria.—(a) Tertian	2 cases in natives.
(b) Quartan	None recorded.
(e) Aestivo-Autumn	al 2,911, of whom 250 were Europeans. There were ten deaths; 1 occurred in a European.
(1) Obnania Malania	11 agains in nations

(d) Chronic Malaria ... 11 cases, in natives.

The subjoined tables show the numbers of Malaria and Blackwater cases as compared with previous years.

Year.	Europeans.	Deaths.	Natives.	Deaths.	Total,	Total Deaths
1909	244		1,983	4	2,227	4
1910	296	3	1,971	6	2,267	9
1911	211	-	1,834	7	2,045	7
1912	250	1	2,674	9	2,924	10

MALARIAL TABLE.

BLACKWATER TABLE.

			1909.	1910.	1911.	1912.
Cases	 	 	4	6	7	. 5
Deaths	 	 	2	1	2	nil

Filariasis.-65 cases are recorded, as against 3 in 1911, and 35 in 1910.

Of these cases 4 occurred in Europeans (3 males and 1 female) and 61 in natives, of whom 4 were females. One death is attributed to this disease. It is interesting to note the greater prevalence in males than in females, and its rarity in infancy and childhood's days. It is a disease of adult life. From the Owerri district alone 35 cases were reported.

Trypanosomiasis.—During the year 152 cases were reported, as against 1 in The solitary case in 1911 occurred in the Abakaliki district. Research 1911. investigations carried out this year in that district show that the case was an isolated one. In the Eket district 149 cases were found and three cases in the Ikotekpene district. The presence of Sleeping Sickness was reported in the early part of the year at Ikotobo near Eket. Dr. R. W. Gray started investigation work in May, but unfortunately developed Blackwater Fever towards the middle of June, and was invalided. He, however, discovered 26 cases. In July Dr. Foran arrived and continued the work at Ikotobo, where a large Sleeping Sickness Camp has been laid out and organised by him. He found 123 cases scattered over the district. Of these 149 cases, 83 were males and 66 were females; 51 were patients under 10 years of age, 66 were patients between 10 and 20 years of age, and 32 were patients of over 20 years of age. The earliest age at which a case was found was at $4\frac{1}{2}$ years, the other extreme age was a person of over 50 years of age. The presence of the particular parasite was determined in 143 cases; those 6 cases in which it was not found were patients in the final or Sleeping Sickness stage. The mortality is said to be about 5 per cent. Dr. Foran informs us that the disease is reported to have existed in the district for perhaps centuries. From the evidence collected it appears to have been in those days more common and more fatal. In olden times, the natives, recognising it to be of an infective nature and very fatal, with the object in view of preventing its spread, passed certain "laws" compelling those infected to isolate and segregate themselves. Nowadays this segregation is not enforced, the inhabitants recognising its lower mortality. Dr. Foran attributes this to the parasite being much reduced in virulence, having passed from one to another of the same tribe during a very long period of years; he is of opinion that the great majority of cases undergo spontaneous cure.

It is interesting to note that the trypanosome was found in gland juice only, and never, even after repeated examinations, in the peripheral blood. This has its value in regard to the propagation of the malady by its insect carrier. Trypanosoma Brucei was found in dogs, and a trypanosome was also found in pigs. In the Ikotekpene district, where three cases of Sleeping Sickness were reported during the latter part of the year, Dr. Gallagher examined the peripheral blood of native pigs, and found them swarming with trypanosomes. A high mortality was noted among the pigs of that district at the time. As no case of Sleeping Sickness had been previously reported from Ikotekpene during the past three years Dr. Gallagher was inclined to think that possibly they harboured the particular parasite of human trypanosomiasis. He has taken slides, showing the parasites, for identification home to England. The insect carrier of sleeping sickness, Glossina Palpalis, is common throughout both districts, but Glossina Tachinoides is by far the most common variety found in the Eket district. Glossina Caliginea and Glossina Pallicera are rare. No clearly defined "fly-belts" can be said to exist, but Glossina are widely distributed and can be found at every water-way and crossing ; they are common in the shady bush, and are found in towns, often a long distance away from water. They tend to collect about places frequented by pigs and cattle.

For the proper treatment and isolation of cases of Sleeping Sickness, a large camp was established at Ikotobe, some ten miles from Eket, at a selected site. The land was very generously given up by the inhabitants, and in addition they supplied free labour for the construction of the camp.

This isolation camp is fenced in and comprises, besides the hospital, the Medical Officer's, nurses', and attendants' quarters and outhouses, a second enclosure with 96 huts, each intended for a patient. In addition, four fly-proof sheds are provided, where patients may either receive their friends, play or work in. Kitchens, and the usual outhouses have also been provided for.

Dracunculus.—In the tables of diseases 193 cases are recorded, of whom 16 were females, as against 113 in 1911, and 182 in 1910. It is worthy of remark that soldiers of the Southern Nigeria Regiment are the chief sufferers.

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Calabar, Abakaliki, Ikon, Obudu and Owerri record the greater number of the cases. In Abakaliki the disease is said to be endemic, and is apparently more prevalent between April and September. The disease would also appear to be uncommon in females, and rare in children. In some districts it is unknown. It is a noteworthy fact that the majority of the cases are imported.

INFECTIOUS OR EPIDEMIC DISEASES.

Beri-beri.—Ten cases, with three deaths, are recorded, as against five, with one death, in 1911, and four, with one death, in 1910. One fatal case occurring in an European non-official, who is said to have contracted the disease at Ozizza, some 12 miles from Afikpo on the Cross River.

Two deaths occurred among natives, but as one of them committed suicide it is unreasonable to attribute the death to Beri-beri. Six cases are reported from Brass. From the reports that I have read on these particular cases I have little hesitation in stating they should be regarded as very doubtful. A typical case was that of the European who is said to have contracted the disease up the Cross River, and afterwards died in the European Hospital at Calabar.

Dysentery.—The tables show 237 cases, with 43 deaths, yet an additional death should be noted as having taken place on board a German ship, in the person of a German sailor suffering from this disease. In 1911 there were 129 cases with 12 deaths, and in 1910, 312 cases with 69 deaths. Of the 237 cases recorded, 82 with 19 deaths are reported from Calabar, 28 from Afikpo with 9 deaths, 55 from Ikotekpene with 10 deaths and 34 from Opobo with 3 deaths. In the Prison Hospital, Calabar, 38 cases of Dysentery were treated with 10 deaths, 9 other deaths from dysentery occurred among prisoners transferred to the Native Hospital for treatment.

Rabies.—Two cases are recorded, one was an European non-official stationed at Bonny and the other a native woman in the Eket district. Both cases ended fatally. The Dogs Ordinance was applied and put into operation and many suspected dogs were destroyed. The natives of the Eket district are familiar with the disease in dogs, and when symptoms appear they remove the animals to the market in order to sell them. This procedure undoubtedly tends to the spread of the disease. It has now happily been put a stop to.

Small-pox.—The tables of diseases record 8 cases, against 23 in 1911, and 36 with 12 deaths in 1910. This satisfactory state of affairs must be attributed to the beneficial results of vaccination.

Tuberculosis.—54 cases with 9 deaths are recorded, as against 32 with 2 deaths in 1911, and 54 cases with 12 deaths in 1910.

Scarlet Fever.—One case, mild in type, was reported from Okigwi in a Government official. He made a successful recovery. It is worthy of remark that the inhabitants of that district recognise the disease. This, however, is the first case which has been officially recorded, as far as I am aware, in this Province.

HELMINTHIASIS.

The total number of cases recorded, including Filaria and Dracunculus, is 655. Necator Americanus claims 225 cases, Dracunculus 193, Ascaris 109, Filariasis 65 and Oxyuris 31. These are the chief parasites of this class. Of the 225 cases of Ankylostomiasis 18 ended fatally, or otherwise 8 per cent. of the cases. In 1911 29 cases with 1 death were recorded, and 5 cases in 1910. There is no actual increase in the prevalence of the disease, but the fact is it has been more generally recognised; microscopical examination of faces shows 80 per cent. of those examined infected. From post-mortem examinations we find it to be invariably associated with dysentery amongst natives. In geophagy, a well-known feature of ankylostomiasis, we have a factor which I think cannot be ignored in the etiology of dysentery – a bacillary infection introduced into the digestive tract by means of the contaminated soil eaten.

HOSPITALS AND DISPENSARIES.

During the year 32,882 patients were treated, as against 24,311 in 1911 and 26,054 in 1910. The prevailing diseases were :--

General dise	ases	 	 2,378
36.1 1		 	2,924
Varicella		 	622
Respiratory		 	 2,312
Digestive		 	5,892
Skin Disease		 	5,836
Injuries		 	4,431
D 1.		 	693

In the Calabar Lunatic asylum 25 inmates were treated. The general health was good, only one patient died. There was one recovery from acute mania, he was discharged. Another patient was transferred to Lagos. At the end of the year there were 22 cases remaining in the institution.

The new concrete quarters for 12 inmates were completed in the early part of the year; bathing-places, provided with a pipe-borne water supply, were erected towards the latter half of the year. A kitchen was also constructed.

Infectious Diseases Hospital, Calabar.—During the year 431 cases were treated, of which 424 were Varicella, 4 Measles and 3 Scabies. Of the 431 cases treated 348 were prisoners. Twelve deaths occurred during the period under review, all among prisoners who were suffering from intercurrent disease.

The New Barracks Dispensary, Calabar.—During the year 1,383 cases were treated, of these 1,141 were soldiers or gun-carriers, the remaining 242 were followers. There was one death, a case of acute diarrhœa in a little child.

The great majority of the cases treated were of a trivial nature; those of a serious nature, numbering 94, were sent to the Native Hospital; of these two died there, 1 from Pneumonia and 1 from Heart Disease.

The prevailing diseases treated at this dispensary were :---Malaria 128 cases, Chronic Rheumatism 112, Respiratory 115, and local injuries 237.

European Hospital, Calabar.—During the year 132 patients were treated. Of this number 63 suffered from Malarial Fever; 20 were Officials and 43 were Non-officials. There was one death from this disease. Four other deaths occurred, the causes being Beri-beri, Septicæmia, Pneumonia and Pernicious Anæmia.

The non-officials seem to have suffered more severely from Malaria than the Government officials. I attribute this to the unhealthy conditions under which the commercial community live. This they have recognised, as applications have been made for residential sites on the hill, in order to get away from insanitary surroundings.

117 Europeans were treated as out-patients during the year; of this number 19 suffered from Malaria. The most prevailing diseases were those of the digestive system.

During the year the new operating theatre was completed, and I may here state the hospital was re-painted, and rendered completely mosquitoproof. Native Hospital, Calabar.—1,194 in-patients and 5,146 out-patients were treated during the year. The in-patient daily average was 46.7, the daily average out-patient was 66.2. There were 70 deaths among in-patients and 2 among out-patients.

The principal diseases treated were Malaria, Rheumatism, those of the Digestive and Respiratory systems, injuries and skin diseases.

The following improvements were effected during the year :—The hospital was re-mosquito-proofed and additional ventilation provided. A new latrine was erected for the use of patients and the old one demolished.

Prison Hospital, Calabar. 558 in-patients were treated during the year, with 68 deaths; the out-patients treated were 1,410.

The daily average of in-patients was 21.4; out-patients 34.78. The chief diseases treated were Malaria, those of the Digestive and Respiratory systems, Lymphatic, the Skin and Connective Tissue.

There were 166 cases of Ankylostomiasis; of these 10 died. The chief causes of death were Diarrheea, Dysentery and Ankylostomiasis.

The European Hospital, Opobo.—Received two patients during the year; one suffered from Malarial Fever and was eventually invalided, the other was treated for an unimportant skin affection. I may here mention that the mosquito-proofing of this hospital was renewed during the year.

IMPROVEMENTS EFFECTED.

These may be briefly summarised as follows :--

BONNY.

The new quarantine station was completed and mosquito-proofed.

CALABAR.

European Hospital.—Operating theatre completed and equipped. Thehospital painted and rendered mosquito-proof.

The mosquito-proofing of the nurses' quarters was renewed.

Native Hospital.—This institution was mosquito-proofed, and ground ventilation provided. A new latrine was erected and the old one demolished. Faulty drains received attention.

The Hospital Compound was enlarged and fenced in.

The *Medical Officer's House* was most successfully rendered mosquitoproof, and in addition certain interior structural improvements were carried out, with very happy results.

The dining room on the ground floor has now been converted into a store room, additional to the Provincial Store.

Lunatic Asylum.—Two new blocks, containing six rooms each, were completed in the early part of the year and are occupied by the male lunatics. Bathing places were also erected for the male wing and provided with a pipe-borne water supply. A kitchen was also erected in the Asylum grounds.

DEGEMA.

An extension block, consisting of two wards, was added to the Degema Native Hospital, and the water storage increased. The hospital compound was also enclosed.

EKET.

At Ikotobo a large camp was constructed and organised for the reception of Sleeping Sickness cases. A Medical Officer was detailed for special duty and research investigation. His report is attached.

ITU.

A brick hospital and dispensary was completed, as likewise was the Medical Officer's bungalow.

OBUDU.

A galvanized iron roof was provided for the native hospital.

Орово.

The mosquito-proofing of the European hospital was renewed, and the Medical Officer's house completed.

IKOTEKPENE,

The Medical Officer's bungalow was completed.

At the following stations the Military Medical Expeditionary Equipment was taken over by the Medical Department, Calabar; here the depôt has been established from which all stores will be issued to out-stations who have taken over equipments, viz. :--Ogoja, Obudu, Owerri and Okigwi. The troops having been removed from Ikotekpene, the equipment has been returned to store at Calabar.

A certain amount of medical work was done by Medical Officers on patrol duty in the Afikpo, Obudu and Ogoja districts. There is, however, nothing of importance or interest to report.

> W. H. G. H. BEST, Provl. M.O., Eastern Province.

VI. SCIENTIFIC.

SOME OBSERVATIONS ON ANKYLOSTOMA INFECTION IN THE UDI DISTRICT OF THE CENTRAL PROVINCE, SOUTHERN NIGERIA.

BY E. J. WYLER, M.D. (LOND.).

These investigations were made with a view to ascertaining the extent of Ankylostoma infection in the Udi Districts and with the idea of trying to arrive at some estimate of its effect upon the public health. A few points in connection with treatment I have thought of sufficient interest to include. The results set out are based entirely on examination of the prisoners in Udi Gaol during a period of eight consecutive months. The convicts examined came from over 65 different villages, scattered widely over the District, which is approximately 1,537 square miles in extent. There can be no doubt, therefore, that they are representative of the population as a whole (about 460,000), but allowance has to be made in the interpretation of my statistics for the fact that they are, for the most part, persons of young adult or middle age.

EXTENT OF THE INFECTION.

Out of 200 cases examined 199 were found to be infected, and it may thus be said that the infection is practically universal among the natives of the district.

I found both Ankylostoma Duodenale, and Necator Americanus.

This wide-spread helminthiasis is due to absence of all sanitary precautions.

The natives outside the European station use no latrines of any kind. They build their villages in "bush," and any more or less retired spot is used for defacation. The conditions of moisture and temperature amidst the "bush" are well suited to the development of the ova, whose dissemination further is aided by fowls which are everywhere allowed to run at large, and scatter faces about with their feet after scratching in them.

Moreover, "it has been shown by direct experiment that Ankylostoma "eggs can be fed to chickens and larvæ readily hatched from the eggs when "they are subsequently passed by the fowls. In this way infection might be "disseminated very widely. Possibly also by flies."

Ova were quickly found (within a minute or two and often seen in the first field) in 187 out of the 200 cases. In only one case had a second slide from the first sample of dejecta examined to be prepared. In only one case had a third slide from the first sample of dejecta examined to be prepared. In nine cases no ova were found in the first sample of dejecta examined, but were found in the second sample. In one case no ova were found in the first two samples, but were found in the third sample. The dejecta were in all cases examined without subjection to special treatment for separation of ova. From consideration of these facts I conclude that the average infection is a heavy one. The dejecta of the uninfected case were examined five times at intervals of two weeks, only *Trichocephalus Trichiuris* ova being found. This case is of interest in that the subject was a man of some education, formerly an interpreter, who had worn boots for seventeen years. All the other prisoners were "bush" men and women belonging, with few exceptions, to the Ibo Tribe.

ASSOCIATION OF ANKYLOSTOMA WITH OTHER HELMINTHS.

In a series of 200 infected cases :--

In 44 per cent. Ankylostoma was the only infection present.

In $12\frac{1}{2}$ per cent. it occurred with Ascaris Lumbricoides.

In 29 per cent. it occurred with Trichocephalus Trichiuris.

In $12\frac{1}{2}$ per cent. it occurred with Ascaris and Trichocephalus.

In 2 per cent. it occurred with Tæniasis and Trichocephalus.

ANÆMIA.

With the exception of a varying degree of eosinophilia, and occasionally some micro-and poikilocytosis, blood films showed no abnormality due to helminthiasis. This was even so in the cases (see below) with œdema of the feet and cardiac dilatation due to anæmia.

Of 100 consecutive hæmoglobin estimations :--

5 had 60 % Hæmoglobin.

0	0= 01	0
8	,, 65 %	,,
29	" 70 %	,,
23	,, 80 %	,,
14	,, 90 %	,,
21	,, 100 %	,,

In this connection it may be pointed out that the degree of anæmia found by different workers in Ankylostoma infected localities varies considerably. Thus in one series of cases in Porto Rico, "about half the agricultural "population (*i.e.*, about 300,000 persons) appear to have had 50 per cent. or less "of hæmoglobin. This is in marked contrast to the degree of anæmia found "among Belgian coal miners. Of 200 cases recorded by Hermann and Dascotte "only two had less than 60 per cent."²

By reason of the kind of instrument I was using (Hall's Rotary Hæmoglobinometer) I can only claim approximate accuracy for my figures, but it will be seen that the degree of anæmia agrees on the whole with that found by Hermann and Dascotte.

" In 1899 Ashford found (in Porto Rico) that the prevalent anæmia was " due to Ankylostoma and not to Malaria and bad food as had been commonly " supposed." ²

From observation of the effect of treatment I think that this remark is probably equally true of the anæmia prevalent here.

CIRCULATORY CHANGES.

Out of 200 cases :--

Cardiac dilatation with hæmic bruits was present in six cases (equal to 3 per cent.). All improved after Thymol treatment.

Œdema of the feet, not ascribable to any other cause than Ankylostoma infection, and cured by treatment with Thymol, occurred in four cases (equal to 2 per cent.).

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Of 100 pulse-rate estimations (taken with due regard to the avoidance of variations dependent upon emotion) :---

54 were normal (72).

36 had bradycardia (three of these had a rate of between 42 and 48 per minute; seven had a rate of between 50 and 54; and 26 a rate of between 57 and 62).

10 had tachycardia (seven of these had a rate of between 82 and 87 per minute and three had a rate of 96).

While, of course, small variations from the normal are of no clinical significance, the high proportion of cases with brady-and tachycardia, seems to me to be worthy of record. In no case was the pulse irregular in rhythm.

TEMPERATURE.

Under the conditions of prison practice in a "bush" station, I found it was not feasible to take continual temperature readings. I found, however, that the pulse-rates appeared on the whole to bear no definite and consistent relation to the temperature.

DIGESTIVE DISTURBANCE.

The number of cases of digestive trouble (epigastric pain, diarrhœa, etc.) were relatively numerous. I have, however, not thought it worth while togive statistics under this head, since change of diet and conditions of life incidental to incarceration and concomitant helminthic infections make it impossible to ascribe such symptoms directly to Ankylostoma. But there is, of course, no doubt that this infection predisposes to such trouble.

SKIN LESIONS.

None of my cases showed any evidence of infection through the skin of the feet (ground itch), nor have I met with any such evidence in the district. In my hospital practice, however, a very large number of natives have presented themselves complaining of an itching eruption on the nates and thighs, often occurring in repeated attacks, and on those parts which in squatting and reclining would be in contact with the ground. The eruption is papular and discrete; never vesicular; occasionally with a superimposed pus infection.

I venture to suggest, though with some hesitation, that this may be a site of entry of Ankylostoma infection.

TREATMENT.

There appears to be no doubt that Thymol is the most efficient anthelmintic for this disease.² I have found it perfectly safe and from perusal of some of the literature on the subject one feels bound to conclude (with Lindeman)³ that many of the evil effects ascribed to the drug are really due to improper administration. Some writers advocate a light or fluid diet on the day preceding treatment. But it seems to me of the greatest importance that no food whatever should be given on the day preceding the administration of the drug or on the day itself until at least six hours after the last dose of Thymol, and I think it very probable that neglect of this precaution has sometimes enabled sufficient fat or oil to gain admission to the intestinal tract to cause a toxic dose to be dissolved and absorbed. I have made it an invariable rule to exclude meat on account of the accompanying fat, and also, of course, palm oil from the first meal after the treatment. Though the number of cases treated by me by the 90 gr. method (see below) is too small to enable absolute conclusions to be drawn, the fact that no toxic symptoms of any kind were displayed in any of my cases, suggests that with proper precautions the drug may be administered in this dose with safety.

It was given in the following way when the 90 gr. dose was employed : --

1. On the previous day no food of any kind, and at 4.0 p.m. 6 drachms of sulphate of magnesium.

2. On the following morning :-

At 6.0 a.m		30 grs. of Thymol
At 7.0 a.m.	·	30 ,, ,, ,, ,,
At 8.0 a.m.		30 ,, ,, ,,
At 4.0 p.m.		6 drachms mag. sulph.

This hour was chosen on account of its convenience in prison practice.

3. From 6.0 a.m. till noon the patients were kept recumbent.

When the sixty and the forty grain dose was employed it was given in two equal doses, one at 6.0 a.m. and the other at 7.0 a.m. with the precautions above described.

The Thymol was always given in a finely triturated state and washed down with a little water. The two smaller doses were tried in order to ascertain whether an efficient anthelmintic action could be obtained with them, but they were soon abandoned in favour of the 90 gr. dose.

The dejecta, not specially treated for the separation of ova, were examined one week after Thymol administration, with the following result :

Of 17 prisoners who received the 40 gr. treatment ova were found in

8 (= 47 per cent.).

"	47	"	,,	"	"	60 gr. treatment ova were found in $14 \ (= 29.7 \text{ per cent.}).$
"	57	"	"	"	"	90 gr. treatment ova were found in 6 (= 10.5 per cent.).

The examination of the dejecta as I have carried it out is only, of course, a very rough test of the relative efficiency of the 90 gr. treatment, but I give the figures for what they are worth.

It would seem desirable in a routine practice, to give at any rate 90 gr. treatment since only a certain proportion of the worms (about 90%) are expelled at the first onslaught.

CONCLUSIONS.

Hook-worm infection is practically universal among the natives of the Udi district.

The average individual infection is a heavy one.

Both Ankylostoma Duodenale and Necator Americanus are found.

Pure infections occur in about 44 per cent. of the cases.

About 79 per cent. of the population is anæmic though the anæmia is rarely profound.

Approximately half the adult population has a normal pulse-rate.

Ground itch does not occur (on the feet).

The 90 gr. Thymol treatment is probably quite safe when given with proper precautions.

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REMARKS.

An observer of the Ibo people of this district cannot fail to be struck by their general poor standard of physique, their incapacity as carriers and workers, and their obvious disinclination for bodily exertion.

As testimony to their indolence and poor physique, I cite the following remarks of Mr. G. H. Fleming, Chief Surveyor, Onitsha-Udi Railway Survey, whose wide experience of West African negroes lends additional emphasis to his views. In a letter to me, from which he kindly allows me to quote, he says :--

"I have had the following different tribes working for me during the past "12 years: Timinies and Mendies (Sierra Leone); Kroc, Waussa and Tantis "(Gold Coast); Yoruba, Haussa, and Ibo (Southern Nigeria). Out of the "whole lot I find that the Ibo is the most indolent."

"The Mendies are the best workers as labourers; a man will do double the amount of work in one day that an Ibo will do. The Ibo is also a poor carrier."

It would be of no small interest to know precisely to what extent the tribes mentioned by Mr. Fleming are infected by the hook-worm, for it seems not improbable that the saturation of the inhabitants of this district with Ankylostoma infection, bringing in its train grave systematic changes, probably produced by actual toxic absorption ⁴ (Weinberg) and other minor changes, such as digestive troubles, which, though transient, are none the less productive of considerable disability, is largely responsible for some of the tribal characteristics of Ibos in these parts, and that these features are not ascribable either to Malaria or bad food *per se*.

Moulded as are the character of tribes, as of nations and individuals, to a great extent by their physical conditions, I think that we may have here a picture of the effect of chronic poisoning by an intestinal parasite on a large community. In the words of Dr. Boycott (Milroy Lectures, 1911) :--

"Taking the world as a whole, with the possible exception of the Malarial organisms, Ankylostoma is, I suppose, responsible for more unhappiness and inefficiency than any other parasite, and, for the most part, indirectly, for no inconsiderable number of deaths. Practically all tropical countries are permeated with the worm and in places where the conditions for its propagation are not unfavourable it may reduce four-fifths of the population to a continual state of chronic ill-health which is only terminated by their premature decease, commonly from some secondary infection."

A knowledge of the exact geographical distribution beyond the Udi borders of the heavy infection which obtains here, would certainly afford no little assistance in arriving at a just estimation of its economic effect upon the people.

The great prevalence of the infection, with all its attendant disabilities, is of massive importance, not only from the standpoint of the medical officer or of the student of eugenics, but also from its influence, probably profound, on commercial prosperity.¹

And in view of the mining operations which will shortly be in progress in the Udi District, Ankylostoma here assumes a very definite economic importance in connection both with European and native labour, to which the extensive measures that have had to be taken against the infection in the coal district of Belgium, of Northern France, of Westphalia, and in the metalliferous mines of Cornwall, amply testify.

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E. J. W.

OTHER SCIENTIFIC OBSERVATIONS. (EASTERN PROVINCE.)

The Medical Officer at Ikotekpene records three interesting cases—one of Lupus—with photographs attached to his reports. The proneness of Lupus to attack, by preference, parts of which cartilage predominates, the site of the nasal fossæ, and the soft palate, support the diagnosis. Yet the case as reported would imply a serious doubt of perhaps a co-added history of syphilis.

His second case is one of Madura Foot, and is extremely interesting on account of the disease being rare in this country. The *streptothrix madurae* was found by Dr. Gallagher, and confirmed by the Medical Research authorities at the Yaba Institute.

The third case is one of Trypanosomiasis in a boy which ended fatally. Dr. Gallagher, in continuing his research work, found in the domestic pig a trypanosome with a striking resemblance to that known to cause human Trypanosomiasis. He has taken to England with him blood films showing this particular parasite with the object of having its identity determined.

Human Trypanosomiasis is also reported from the Eket District; 149 cases were found during the year. The disease is said to be fairly widespread, mild in character and with a tendency towards cure and does not apparently assume an epidemic form. Children are particularly affected and the mortality is low, perhaps not exceeding 5 per cent. In the same District trypanosomiasis of dogs and pigs is also recorded. The disease in pigs is particularly fatal.

Dracunculus is said to be endemic in only one district in this Provincethe Abakaliki District.

FILARIASIS.

The Micro-filaria Loa, Perstans and Nocturna are common throughout the Province. In most cases these worms do not affect the general health.

The "Calabar Swelling" is not so common in Calabar as the name would lead one to believe. Filaria is common in Owerri as also is elephantiasis, a disorder which is attributed to the worm. Micro-filariæ as found in the peripheral blood circulation, are not very common in women, and as far as my experience goes are extremely rare in children.

In the latter part of the year Prof. Leiper, of the London School of Tropical Medicine, came to Calabar and carried out certain research work, and was successful in discovering that the intermediate host of the Filaria Loa was *Chrysops Dimidiata* and *Silacea*. He also proved Chrysops to be the carrier.

There is nothing interesting to report on those other parasites, almost exclusively intestinal, dealt with already in the body of this report.

REPORTS ON DISTRIBUTION OF BLOOD-SUCKING FLIES COLLECTED IN SOUTHERN NIGERIA.

By Dr. W. S. CLARK.

FAM.-TABANIDÆ.-

Tabanus fasciatus. Fab.—Aboh, Aseh Creek, 10–9–11, 9 f., 1 m.;
Aboh, 25–8–11, 28–8–11, 2 f.; Aboh Hospital, 22–9–11, 1 f.;
Badagry Hospital, 1–5–11, 22–5–11, 27–4–11, 7–7–11, 4 f.;
Badagry, Ajara Creek, 26–5–11, 1 f.; Badagry, Ilaro, 14–5–11, 1 f.

Tabanus secedens. Walk. — Aboh, Aseh Creek, 9-9-11, 10-9-11, 31 f.; Aboh Hospital, 16-9-11, 22-9-11, 2 f.; Epe, 19-1-12, 1 f.

Tabanus socialis. Walk.— Aboh, Aseh Creek, 10-9-11, 11-9-11, 2 f.; Badagry Creek, 18-6-11, 1-8-11, 2 f.

Tabanus tueniola. P. de B.—Aboh, Aseh Creek, 10-9-11, 1 f.; Badagry, 20-7-11, 25-7-11, 3 f.

Tabanus besti. Surcouf.--1 f., no data. Badagry Creek.

Tabanus thoracinus. P. de B.—Badagry Hospital, 27–4–11, 30–4–11, 2 f.; Badagry, Ajara Creek, 26–5–11, 3 f.

Tabanus thoracinus. P. de B. (?) (melanic form).—Epe, 19-1-12, 20-1-12, 12 f.

Hæmatopota torquens. Aust.-1 f., Niger Region. No data, Aseh River, Aboh.

Hæmatopota sp.-Badagry, Ilaro, 14-5-11, 1 f.

Hippocentrum versicolor. Aust. -- Aiyetoro, Badagry, 13-5-11, 1f.; Ajara Creek, Badagry, 26-5-11, 1f.; Ilaro, Badagry, 13-5-11, 1f.

MUSCIDÆ.-

Glossina caliginea. Aust.—Epe, 19-1-12, 20-1-12, 1 m. and 1 f., 1 f., no data, Aboh, 25-8-11, 1 m.

Glossina tongipalpis. Wied.—Aiyetoro, Badagry, 13-5-11, 1 f.; Ilaro, Badagry, 13-5-11, 1 m. The latter a peculiar specimen without thoracic markings and with very pale abdominal bands.

Glossina fusca. Walk.—Agilete, Badagry, 15-5-11, 1 f.; Badagry, Addo, 16-5-11, 1 f.

Glossina palpalis. Rob. Desv.—Aboh, Aseh Creek, 10–9–11, 9–9–11, 4 f. 1 m.; Aboh, 25–8–11, 1 f.; Aboh Hospital, 19–9–11, 1 f.; Aboh bungalow, 18–10–11, 1 m.; Epe, 20–1–12, 1 m.; Badagry Hospital, 27–4–11, 30–4–11, 20–5–11, 26–6–11, 5 f. 1 m.; Badagry Creek, 26–5–11, 31–5–11, 18–6–11, 11–6–11, 12 f. 10 m.; Badagry, Ilaro, 14–5–11, 2 m.; Badagry, Iworo, 20–7–11, 1 f.; Badagry, Jofin, 16–6–11, 1 m.; Badagry, Ibio, 15–5–11, 1 f.; Badagry, Ajilete, 15–5–11, 3 m.; Lagos, Ojo, 7–6–11, 1 m.

Stomoxys calcitrans. Linn.-1 f. (very small), Badagry, 25-7-11. CULICIDÆ.-

Ingramia malfeyti. Newstead.-Epe, 20-1-12, 3 m.

Hodgesia sanguinis. Theob.-Badagry Hospital, 23-5-11, 1 f.

Culex insignis. Carter.-Badagry, 25-5-11, 1 f.

Phagomyia nigricephala. Theob. -Badagry, 27-5-11, 1 f.

Stegomyia (Kingia) africana. Theob.-Badagry, 25-5-11, 1 f.

(m. male, f. female.)

- Stegomyia fasciata. Fab.-Aboh, 18-10-11, 1 f.; Aboh, Cabin steam launch, 11-9-11, 8 m., 6 f.; Badagry, Ajilete, 16-5-11, 1 f.; Badagry, Jofin, 16-6-11, 1 f.; Badagry, Addo, 18-5-11, 1 f.; Badagry, 30-5-11, 25-7-11, 2f.
- Mansonioides uniformis. Theob.—Aboh, 24-10-11, 23-10-11, 3 f.; Aboh Hospital, 12-9-11, 16-9-11, 20-9-11, 3 f.; Aboh Bungalow, 18-10-11, 2 f.; Epe, 20-1-12, 2 f.; Badagry Bungalow, 23-5-11, 27-5-11, 29-5-11, 24-5-11, 10 f.; Badagry, Jofin, 16-6-11, 2 f.; Badagry, Ajilete, 16-5-11, 3 f.; Badagry, Ibio, 15-5-11, 2 f.
- Culiciomyia nebulosa. Theob.--Aboh, 23-10-11, 5 f.; Badagry, Addo, 17-5-11, 3 f., 2 m.; Badagry, Iworo, 23-7-11, 1 m.; Badagry Hospital, 23-5-11, 1 f.; Lagos, Ojo, 7-6-11, 1 f.

Culex quasigelidus. Theob.-Aboh Bungalow, 18-10-11, 1 f.

Culex guiarti. Blanch. - Badagry, 24-5-11, 25-5-11, 30-5-11, 25-7-11, 7 m., 5 f.

Myzorhynchus mauritianus. Grandpre.-Aboh, 24-10-11, 1 f.

Pyretophorus costalis. Loew.--Aboh, 23-10-11, 9 f., 16 m.; Aboh, 24-10-11, 7 f.; Aboh Bungalow, 18-10-11, 2 f., 1 m.; Aboh Hospital, 22-9-11, 1 f.; Badagry, 25-5-11, 6 f., 9 m.; Badagry, 29-5-11, 1 m.; Badagry Bungalow, 23-5-11, 24-5-11, 3 f., 2 m.; Badagry Hospital, 21-5-11, 23-5-11, 2f.; Badagry, Iworo, 30-7-11, 1f.; Badagry Creek, 18-6-11, 1f.; Badagry, Ajilete, 16-5-11, 1f., 2m., 2f. No data Badagry.

Myzomyia funesta. Giles .- Aboh Bungalow, 18-10-11, 2f.

By DR. A. H. WILSON, in Benin District.

CULICIDÆ.-

Anopheles pitchfordi. Theo.-1 f., Siloko, 1912.

Stegomyia fasciata. F .- 9 f., bred Benin City, 1912.

Mansonio des africanus. Theo .- 15 f., Siloko, 1-7-12.

Culiciomyia nebulosa. Theo.-3 m., 7 f., bred Benin City, 6-12.

Culex duttoni. Theo.—2 m., 2 f., bred Benin City, 6-12. C. tigripes, Grp., var fuscus. Theo.—2 f., Siloko, 1912. Eretmopodites chrysogaster. Grah.—6 m., 3 f., bred Benin City, 6-12. TABANIDÆ.-

Tabanus secedens. Walk .- 2 f., Benin City, 7-12.

T. fasciatus. F.-9 f., Benin City, 7-12.

T. combustus. Big.-5 f., Ologbo, 1-12.

T. thoracinus. P. de B.-1 f., Ologbo, 1-12.

MUSCIDÆ.-

Glossina palpalis. R.D.-3 m., 6 f., Benin City, 5-7-12.

BY MR. J. H. J. FARQUHAR, in Benin District.

CULICIDÆ.-

Culex tigripes fuscus. Theo.-1 m.

TABANIDÆ.-

Rhinomyza stimulans. Aust.-1 f. Chrysops dimidiata. Wulp.--1 f.

MUSCIDÆ.-

Glossina palpalis. R.D.-10 m., 29 f. G. longinalpis. Wied.-1m., 1f.

(m. male, f. female.)

By MR. J. H. A. FARQUHAR in the Central Province.

CULICIDÆ.--

Mansonioides uniformis. Theo.-1 f., no data.

Culiciomyia nebulosa. Theo.-1 f., Benin City, 1-1-12.

TABANIDÆ.-

Chrysops dimidiata. Wulp.--2 f., Benin City, 1-1-12, 2 f.; Ojalla, Ifon, 2-2-12.

Tabanus sp. (?) near obscurehirtus. Ric.-1 f., Benin City, 29-11-11.

Tabanus sp. (?) near thoracinus. P. de B. -2 f., Benin City, 27-11-11. T. billingtoni. Newst.--3 f., Benin City, 27-11-11, 28-11-11 and

20 - 3 - 12.

T. secedens. Walk .-- 1 f., Benin City, 27-12-11.

MUSCIDÆ.-

Glossina palpalis. R.D.-4 m., Benin City, 10, 11 and 12, 1911, 1 m.; Owo, Ifon, 16-2-12, 4 f.; Afuge, Ifon, 27-2-12.

G. longipalpis. Wied.-2 f., Ifon, 16-2-12.

By Dr. T. F. G. MAYER.

CULICIDÆ.-

Stegomyia fasciata. F.-1 f., Sapele, 1912.

Culex duttoni. Theo.-10 m., 16 f., Sapele, 1912.

Culiciomyia nebulosa. Theo.-1 m., 27 f., Benin City, 1-1912.

TABANIDÆ.-

Hæmatopota cordigera. Big.-1 f., Sapele, 1-1912.

BY DR. R. W. GRAY.

TABANIDÆ.-

Chrysops dimidiata. Wulp, var. silacea, Aust. - 2 f., Benin, 11-11. Tabanus fasciatus. F. -2 f., Benin, 11-11.

T. billingtoni. News.-1 f., Benin, 11-11.

T. socialis. Walk .- 2 f., Opobo, 1-5-12.

T. combustus. Ric. -2 f., Opobo, 1-5-12.

MUSCIDÆ.-

Glossina palpalis. R.D.-2 m., Benin, 11-11, 1 f.; Opobo, 1-12, 2 f.; Eket, 5-6-12.

G. pallicera. Big.-1 f., Eket, 5-6-12.

G. tachinoides. Westw.-1 m., 1 f., Eket, 5-6-12.

BY MR. E. DAYRELL, in January, 1912, at Ikon.

TABANIDÆ.-

1 f., Tabanus fasciatus. F.

57 f., Tabanus ruficrus. P. de B.

1 f., *Tabanus* sp. nov.—There is a single specimen of this species in the British Museum, from Sierra Leone.

By MR. W. C. W. EAKIN in Ikotobo and Kwa Ibo locality.

Tabanus combustus. Big. Chrysops silacea. Aust. BY DR. H. R. MOREHEAD IN Oshogbo District.

MOSQUITOES .---

Pyretophorus costalis.

Myzomyia funesta. Stegomyia fasciata. Culex fatigans.

FLIES.-

Glossina palpalis. T. tachinoides. T. fusca. Lucilia, Auchmeromyia. Hippobosca equinus. Chrysops. Hæmatopota.

By Dr. JOHN CURRIE, Ibadan, Western Province.

CARABIDÆ.-

Calosoma, sp. new to the British Museum. Scarities tenebricosus, Dej.

COCCINELLIDÆ.-

Leis 22-Maculata, F.

BOSTRYCHIDÆ.-

Apata terebrans, Pall.

ELETARIDÆ.-

Tetralobus Flabellicornis, L.

CETONIIDÆ.-

Pachnoda cordata, Drury. Diplognatha gagates, F. Cocnochilus, sp. new to B.M. Platygenia barbata, Schonh.

DYNASTIDÆ.-

Prionoryctes breviusculus, Arr. Archon Centaurus, Burm.

RUTELIDÆ.-

Anomala disparilis, Arr.

A. nuda, Arr.

A. mixta, F.

Anomala sp.—unnamed in B.M. Schizonycha crenata, Gyl.

LUCANIDÆ.-

Metopodontus senegalensis, Klug, 1f.

TENEBRIONIDÆ.— Tenebrio sp. Gonocephalum simplex, F. Derosphaerus morosus, Mots.

Odontopezus cupreus, F.

MELOLE.-

Zonitis eborina, F.

CURCULIONID.E.— Lixus fausti, klb. [279333] CERAMBYCIDÆ.— Tithoes maculatus, F. Mallodon downesi, Hope. Macrotoma prionopus, White.

LAMIIDÆ.-

Coptops aedificator, F. Apomecyna Scalaris, Serv. Hecyrida obscurator, F. Monohammus ruspator, F.

GALERUCID.E.— Oides humaralis, Gahan. Galerucella obscura, F.

ORTHOPTERA.

MANTIDÆ.-

Tenodera superstitiosa, F. Sphodromantis lineola, Burm. Pseudocreobotra ocellata, P. de B.

ACRIDIIDÆ,---

Tryzalis gigantea, Fuess.

RHYNCHOTA.

FULGORIDÆ.-

Pyrops tenebrosus, F.

PENTATOMIDÆ.---

Atelocera Serrata, F.

By Dr. A. E. NEALE, in Aro District.

Pyretophorus Costalis, Myzomyia funesta, Mansonia Africana, Pectinopalpus fusca, Stegomyia fasciata, S. Nigrocostalis, S. Tigripes, Culex duttoni, Culicoides grahamia, Hæmatopota lacessens, Chrysops longicornis, Simulium damnosum, Stomoxys nigra, S. calcitrans, Hippobosca maculata, Tabanus fasciatus, T. taeniola, Glossina palpalis, G. fusca, G. longipalpis, G. species unknown (sent to Austen), Phlebotomus.

The following biting insects have been recorded by Medical Officers in the Eastern Province.

ABAKALIKI.-Glossina, Culex Anopheles, Simulidae, Psychodidae.

CALABAR. — Dr. Adam records *M. Costalis, S. fasciata*, the most common mosquito in Calabar; *C. Duttoni*, common in the neighbourhood of the Duke Town Springs; *Taniorrhynchus* sp. (?), abundant at the European Hospital Compound and in the neighbourhood of Leopardstown, *G. Palpalis* is uncommon, but specimens are found from time to time all over Calabar; it infests the banks of the waterways. *Stomoxys* are very common. *Lyperosia*, two varieties, have been found; they are reported to be uncommon. *Tabanidae* swarm everywhere. The Medical Officer, Calabar, records *T. Socialis, T. donaldsoni*, *T. secedens, Chrysops silacea, C. dimidiata.* Sandflies, of a species which he has been unable to determine, are said to be very common in Leopardstown and along the eastern side of Calabar Road, and to a less extent are found all over Calabar. *A. Luteola* and *C. Anthropophaga* are very common. *Hamatopota* are not plentiful. The Ixodidæ family, Rhipicephalus sanguineus is extremely common.

Cimex rotundatus and *A. lectularia* are the most common bugs, and found all over the Province.

DEGEMA.—The Medical Officer reports A. maculipennis, A. bifurcatus, P. costalis, Culicinæ, S. fasciata, and others which he does not identify.

EKET.—The Medical Officer in charge of the Sleeping Sickness Camp reports G. tachinoides as the most common species found in the locality. He captured 1,429 as against G. palpalis 104, G. caliginea (two specimens) and G. pallicera (one). Stomoxys, Chrysops and also Tabanida.

IKOM-OBUBRA.—The Medical Officer records Stegomyia, Culex, variety not stated and a few anopheles. Tabanidæ, G. palpalis and G. pallidipes; this latter is a very common species found in Southern Nigeria. Chrysops, Stomoxys.

IKOTEKPENE.—C, duttoni, tigripes, and grahami and S. scute/laris, and Calopus are rare in this station but common in the native town. A. maculipennis, M. costalis, M. funesta are not numerous. Chironomidæ are at times a scourge, especially in Native market places; C. grahami most numerous. Simulidæ are recorded from that District.

ITU.--Medical Officer reports the presence of G. palpalis, G. tachinoides, G. pallidipes. Chrysops common, also Tabanidæ. M. mansonia is also reported.

OBUDU.—Anophilinæ rare, C. fatigans, S. fasciata found. C. palpalis, common along the banks of streams. Stomoxys fairly common. Hæmatopota rare. Pscychodidæ and Simulidæ not observed. Ixodidæ are reported to be very common.

OGOJA.—The Medical Officer states that *Glossinæ* are very common along the Afunatam road. Mosquitoes are said to be numerous at the end of the wet season.

OWERRI.--Anophelinæ are rare. C. fatigans very abundant. Chironomidæ a pest. Psychodidæ and Simulidæ are abundant.

Up to the time of writing this report, no information has been received from the following stations on the subjects of biting insects, although they are very numerous. The stations are :--Afikpo, Bende, Bonny, Brass, Okigwi and Opobo.

At Afikpo are found G. Palpalis and several varieties of Tabanidae M. funesta, M. costalis, C. grahami, Mansonioides uniformis.

At Bende, G. palpalis, G. fusca, C. silacea, Hippocentrum trimaculatum, T. Besti, T. Kingsleyi, T. par, T. taniola, C. duttoni, C. tigripes var. fuscus, Culiciomyia nebulosa, M. uniformis, S. Africana, S. fasciata, M. funesta, M. costalis, C. grahami, C. anthropophaga and A. luteola.

At Bonny M. costalis, S. fasciata and sandflies are very troublesome.

At Brass and Akassa T. secedens, T. socialis and T. thoracinus, M. costalis and S. fasciata are very common.

G. palpalis also exists and is a pest when travelling by launch. G. tachinoides are very numerous on the Nun branch of the Niger and at Oloibre.

At Omoduru near Okigwi, G. palpalis and also Tabanidæ were found.

The Opobo District is very rich in biting insects. Tabanidæ, Glossinæ, Chrysops swarms in creeks.

[279333]

RETURNS.

TABLE I.

MEDICAL STAFF ON THE 31st DECEMBER, 1912.

Principal Medical Officer W. H. Langley, C.M.G. Deputy Principal Medical Officer T. Hood.									
Senior S Provinci						J. A. Pickels.			
Frovinci	ai meun					C. R. Chichester. W. H. G. H. Best,			
Senior M	[edical (Officer				St. G. Gray.			
						W. F. Macfarlane.			
"	"	"				D. Burrows.			
Sanitary		····				R. Laurie.			
Medical						A. W. S. Smythe.			
,,	"					F. J. A. Baldwin.			
,,	,,					T. B. Adam.			
,,	,,					J. B. Bate.			
,,	,,					M. E. O'Dea.			
"	"					G. Hungerford.			
"	,,,			;		D. A. Ashton.			
,,	"				••••	R. W. Gray.			
,,	"					A. E. Horn.			
"	"					T. F. G. Mayer (seconded).			
"	"					E. H. Tipper. J. Currie.			
"	"					J. D. Finlay.			
"	"					E. E. Maples.			
"	"					J. C. M. Bailey.			
"	"					H. R. Ellis.			
**	"					F. B. Thompson.			
"	"					J. S. Smith.			
"	,,					D. Mackinnon.			
"	,,					R. C. Hiscock.			
,,	,,					H. L. Burgess.			
,,	,,					J. J. Moore.			
,,	,,					P. H. MacDonald.			
,,	"					E.J. Tynan (M.O.H., Lagos)			
,,	,,					H. M. Newport.			
"	"					A. H. Wilson.			
,,	"					T. M. R. Leonard.			
,,	"					P. F. Foran.			
"	"					T. R. Beale-Browne.			
"	"					G. Beatty.			
"	"					T. L. Craig.			
"	"					J. H. McKay. H. R. Morehead.			
"	"					A. E. Neale.			
"	"					G. Wilson.			
"	"					S. L. G. D. Maclaine.			
"	"					T. H. Suffern.			
"	"					A. W. H. Grant.			
"	"					E. M. Franklin.			
,,	,,					W. S. Clark.			
						and the second se			

N. 101	and U				Con 2 Day
Medical	Omcer			 	J. R. P. Allin.
,,	,,			 	T. Hood-Rankin.
"	,,			 	C. W. O'Keeffe.
,,	"			 	G. M. Gray.
"	,,			 	W. H. Sieger.
,,	"			 	W. H. Peacock.
"	,,			 	R. C. Macpherson.
,,	,,			 	A. Hutton.
,,	,,			 	G. H. Gallagher.
,,	,,		۰.	 	F. Ross.
,,	"			 	C. G. Grey.
,,	,,			 	J. P. B. Snell.
"	"			 	L. H. Booth.
,,	"			 	A. Hipwell.
,,	,,			 	E. L. Sieger.
,,	"			 	R. H. Brierley.
•,				 	E. C. Braithwaite.
•,	"			 	H. R. M. Ferguson.
,,	"			 	W. T. Martyn-Clark.
,,	,,			 	E. J. Wyler.
,,	"			 	E. J. J. Quirk.
,,	,,			 	W. Browne.
,,,	"			 	K. Manson.
,,	,,			 	M. W. Ruthven.
,,	,,			 	C. Kelsall.
,,	,,			 	E. L. Anderson.
,,	,,			 	T. R. Sandeman.
"				 	W. R. Parkinson.
Native 1	Medical (Officer		 	C. J. Lumpkin.
,,	"	,,		 	O. Sapara.
,,	"	,,		 	W. A. Cole.

EUROPEAN NURSING STAFF ON THE 31st DECEMBER, 1912.

Senior	Nurse			M. M. Graham.
Somor	21 41 50	 		Jane Grewer.
"	"	 	 	
,,	"	 	 	E. K. Neville.
,,	,,	 	 	R. M. Veccock.
,,	"	 	 	F. M. Day.
,,	,,	 	 	J. McCotter.
Nurse				L. M. Single.
110150		 		K. Gordon.
"		 	 	
,,		 	 	L. Harvey.
"		 	 	J. Winchester.
,,		 	 	C. Littlewood.
"		 	 	L. M. Borthwick.
				J. Y. Matthews.
,,		 		A. E. Drew.
,,		 	 	
,,		 	 	E. M. Robinson.
,,		 	 	E. E. Elliot.
,,		 	 	W. M. Dyer.
		 	 	E. M. Phillips.
				*

EUROPEAN SANITARY INSPECTORS.

Sanitary	Inspector		 	C. Davies.
	•)	 	 	F. G. Payne.
,,	,,	 	 	E. Kirk.

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PRINCIPAL MEMBERS OF SUBORDINATE STAFF.

PRINCIPAL MEDICAL OFFICE.

First C	lass	Clerk	 	 	G. Taylor.
,,	,,	"	 	 	A. J. Salvador.
Second	,,	,,	 	 	G. J. Rufino.
,,	,,	,,	 	 	F. S. Joaquim.
,,	,,	,,	 	 	O. K. Disu.
Third (lass	Clerks	 	 	Three.
Messen	gers		 	 	Two.

VITAL STATISTICS BRANCH.

Registrar of Vital Stati	stics	 	E. J.	Martins.
Second Class Clerk		 	R. N	. Scott.

WESTERN PROVINCE.

SENIOR MEDICAL OFFICE.

Second Class C	lerk	 	 J. F. Fakolujo.	
Messenger		 	 One.	

SENIOR SANITARY OFFICE.

First Class	Clerk	 	 		Beckley.
Second ,,	,,	 	 	E. L.	Williams.
Messenger		 	 	One.	

DISPENSING STAFF.

			A. E. Phillips.
			R. A. Benjamin.
			T. E. Macaulay.
			S. A. Doherty.
			Solomon Phillips.
			E. C. Adigun.
			V. E. Campbell.
rs			Six.
			Three vacancies.
			Ten.
	 rs	 rs	 rs

NURSING STAFF.

First Class	Nurses	 	 	Sixteen.
Second "	,,	 	 	Seventeen.
				Three vacancies (One lent to
				Ilorin).

Nurses-in-training Six.

LAGOS MEDICAL STORE.

Storekeeper	and	Warden	 	 S. O. Ohekeno.
Storeman			 	 One.

YABA LUNATIC ASYLUM.

Senior .	Attendant	 	 	One.
Junior .	Attendants	 	 	Ten.
				One vacancy.

CENTRAL PROVINCE.

PROVINCIAL MEDICAL OFFICE.

First Class C	lerl	5				G. S. Blankson.
Second "	,,					Oliver Francis Morgan.
Third "	,,					One.
Messenger	,,					One.
Second Clas	s (lerk to	Med	lical Of	ficer,	
Warri						J. E. Tomlinson.

DISPENSING STAFF.

First Class Dispenser	 	 W. Sanniez.
	 	 G. S. W. Gbedemah.
Second ", Dispensers	 	 Eleven.
		One vacancy.
Storekeeper	 	 One.

NURSING STAFF.

First Class Nurses	 	 Two.
Second ,, ,,	 	 Two.
Nurses-in-training	 	 Six.

INFECTIOUS DISEASES HOSPITAL.

Attendants	 	 	Two.

EASTERN PROVINCE.

PROVINCIAL MEDICAL OFFICE.

First Class C	lerk	 	 	Alfred E. Parker.
Second "	,,	 	 	James R. Dodoo.
Third "	,,	 	 	One.
Messengers		 	 	Two.

DISPENSING STAFF.

Senior Dispense	r	 	 J. T. C. Robbin,
First Class Disp	enser	 	 E. J. Lewis.
,, ,, ,	,	 	 A. O. Laborunaja.
Second Class Di	spensers	 	 Fifteen.
			One vacancy.
Storekeepers		 	 Two.

NURSING STAFF.

First Class N	urses	 	 	Six.
Second "	,,	 	 	Eight.
Nurses-in-tra	ining	 	 	Two vacancies. Four.

LUNATIC ASYLUM.

Senior Attendant	 	 	B. P. Barkley
Attendants	 	 	Four.

INFECTIOUS DISEASES HOSPITAL

Attendants				Two.	
------------	--	--	--	------	--

WESTERN PROVINCE.

CLERICAL STAFF.

Mr. King, Second Class Clerk, transferred to Central Province, Police Department.

Mr. Joaquim, appointed Second Class Clerk in Principal Medical Office.

Mr. O. K. Disu, appointed Second Class Clerk in Principal Medical Office, vice Mr. King.

DISPENSING STAFF.

Second Class Dispensers Adigun and Campbell, promoted First Class Dispensers.

Mr. S. Adeniyi-Jones, licensed druggist, Dispenser Boyle, formerly of the Gambia, and Mr. Sam Macaulay of the Dispensing School, Lagos, were appointed Second Class Dispensers.

Appointment of Mr. Ernest Pratt, Second Class Dispenser, terminated on 4th March on the ground of ill health.

NURSING STAFF.

Mr. John A. Coker appointed First Class Nurse, Infectious Diseases Hospital, vice Thomas Romeiro.

Messrs. Lawson, Ogun and Huedakor, of the Lagos Hospital, and El liot, of Ibadan Dispensary, were promoted First Class Nurses.

Miss Alade, Ellen Davies, Messrs. Olufadeji and Shonubi, Nurses-intraining, were promoted Second Class Nurses.

Messrs. Joaquim, Oke, A. Johnson, J. Lawani and Misses Akerele and Johnson were appointed Nurses-in-training.

RESIGNATIONS.

Second Class Nurse Selina Laniya and First Class Nurse Honorata Adu.

DISMISSAL.

One Second Class Nurse was dismissed.

CENTRAL PROVINCE.

Mr. O. F. Morgan was promoted Second Class Clerk.

Mr. J. Tomlinson was appointed Second Class Clerk to the Medical Officer, Warri.

DISPENSING STAFF.

Mr. S. J. S. Marques was transferred from Western Province for duty.

Mr. W. G. Duke was transferred to the Eastern Province for duty in place of Mr. Claudius Franklin. Mr. Claudius Franklin was transferred from Eastern Province for duty in place of Mr. W. G. Duke.

Mr. Michael Williams was appointed Second Class Dispenser.

Mr. George B. Johnson was appointed Second Class Dispenser.

Mr. J. G. Bajulai was transferred to the Western Province for duty.

EASTERN PROVINCE.

Mr. A. E. Parker was appointed First Class Clerk.

Mr. W. G. Duke was transferred from Central Province in place of Mr. Claudius Franklin.

Mr. Claudius Franklin was transferred to the Central Province for duty.

Mr. E. C. Adigun was transferred to Western Province for duty.

Mr. M. Mendes was appointed Second Class Dispenser.

TABLE II.

STATEMENTS OF EXPENDITURE IN THE YEAR 1912, UNDER SUB-HEADS AS COMPARED WITH THE ESTIMATES.

ITEM.	MEDICAL-Head 21.	ESTIMATES.	Actu		
	in the main of lating the set in the	1.	£	£	s. c
	PERSONAL EMOLUMENTS		53,114	47,562	16
18	Outfit allowance to European Nurses		96	132	0 (
9	Outfit allowance to Medical Officers		96	108	0 (
0	Medical Examination of Officers in England		150	- 238	2 (
1	Expenses of Doctors and Nurses at School of Tr		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		
	Medicine, and fees on engagement of and reser Medical Officers in England	ve of	450	1,181	17 10
2	Contribution to Malarial Committee towards investig	gation			
	of Malaria		350	350	0 (
3	Contribution to Advisory, Medical and Sanitary Com		50		
	for Tropical Africa		50	116	
4	Contribution to expenses of Dr. Horn		133	177	
5	Occasional Nurse		10	3	2 (
6	Clothing and Bedding (General)		275	232	3 (
7	Diets, Provisions and Necessaries		2,200	2,431	1 4
8	Fuel, Light and Sundries		130	116	7 11
9	Medicines		1,500	1,828	3 (
0	Instruments		500	1,292	15 9
1	Medical Library		20	18	12 10
2	Electric Lighting		360	290	17 7
3	Vaccination Expenses		330	275	3 5
4	Fees to Government Medical Officers for successful Va tions performed	ccina-	200	3	6 8
5	Upkeep of Bacteriological work		25	9	15 (
6	Unkeen of Parasitelegias work		25	7	7
57	Paulatana Vital Statistics		100	61	3 (
18	Allowance for Uniforms to Native Nurses and A	mlum	100	01	5 (
~	Attendants		75	32	7 1
9	Uniform for Labourers and Watchmen		35	25	7
0	Uniforms for Vaccinators		30		15 10
1	Night Duty allowance to Hospital Labourers		14		11 :
2	Horse allowances to Medical Officers		692	586	6
3	Typewriter		20	20	-
4	Unkeen of Motor Car		75	48	
17	Dontal Outfit			27	0 0
	Personal Emoluments			32	3
2	Transport of Stones				
-	Partonal Empluments			13	1 (
5	Badding and Faninment			20	11 1
1	Ross for managerful Vacination northernal		-	8	18 1
4	Uniforms for Staff		-	1	2 (
36			-	1	3 10
0	Transport of Stores		-	14	9 (
			- Andrewson and the		

WESTERN PROVINCE.

STATEMENTS OF EXPENDITURE IN THE YEAR 1912 .- continued.

ITEM.	MEDICAL,-Head 21.	ESTIMATES.	ACTUAL EXPENDITURE,
	PERSONAL EMOLUMENTS	£ 2,857	£ s. d 3,243 16 9
		15	
8	Extra Medical Assistance	15	1001.10
9	Medicines	1,000	1,024 18 5
0	Surgical Instruments and Appliances	500	467 16 10
1	Medical Comforts	150	102 17 7
2	Bedding and Equipment	225	221 3 4
3	Washing, European and Native Hospitals	80	75 6 6
4	Diets and Provisions	625	449 18 9
5	Laboratory Equipment and Upkeep	25	27 3 1
6	Vaccination Expenses, cost of Lymph, Lancets, etc	300	278 13 8
7	Bonuses to persons Vaccinating	25	-
8	Fees for successful Vaccinations performed by Government	1000	
	Medical Officers	250	396 18 0
9	Upkeep of Medical Library	10	9 11 4
0	Expenses of Leper Settlement, Onitsha	300	300 7 9
1	Hammocks for Medical Stations	15	11 15 9
2	Transport of Stores	50	18 4 11
3	Diet and Provisions, Forcados Sanitary Station	50	-
2	Horse Allowances to Medical Officers	-	0 6 5
1	Expenses of Doctors and Nurses at School of Tropical		
	Medicine, and fees on engagement of and reserve of		
	Medical Officers in England		6 6 0
	TOTAL	£6,477	£6,635 5 1

CENTRAL PROVINCE.

EASTERN PROVINCE.

	PERSONAL EMOLUMENTS				£ 4,809	£ 5,552	8. 8	d. 6
	OTHER CHARGES :							
121	Extra Medical Assistance				15	9	1	0
122	Medicines				1,200	1,063	12	5
23	Surgical Instruments and Appliances				600	513	16	1
124	Medical Comforts				170	150	17	11
25	Bedding and Equipment				295	265	8	0
26	Washing, European and Native Hospital	ls			80	51	5	0
27	Diet and Provisions				1,310	1,275	2	8
28	Bedding, Equipment and Upkeep				25	25	0	0
29	Laboratory Equipment and Upkeep				35	30	10	7
130	Vaccination Expenses				500	433	15	6
31	Fees for successful vaccination perform	ned by (Govern	ment				
	Medical Officers				600	705	17	0
32	Bonuses to persons vaccinating				25			
33	Upkeep of Medical Library				10	8	0	5
34	Uniforms for Staff				35	20	10	4
35	Fuel contract, Calabar				15	14	15	0
36	Transport of Stores				50	35	5	9
51	Expenses of Doctors and Nurses at		of Tro	pical				
	Medicine, and fees on engagement							
	Medical Officers in England					35	2	6
72	Horse Allowances to Medical Officers						13	4
	The state of the s							-
		TOTAL			£9,774	£10,192	2	0

*A further sum of £491. 12s. 6d. has been paid in 1913 for vaccinations performed in the Eastern and Central Provinces in 1912.

[279333]

STATEMENTS OF EXPENDITURE IN THE YEAR, 1912 .- continued.

WESTERN	PROVINCE.
---------	-----------

 INCE.	£ 2,645 1,000 £3,645 £ 1,204	2,202 1	12 0 3 5
	£3,645	£3,260 £ s.	3 5
	£3,645	£3,260 £ s.	3 5
INCE.	£	£ s.	. d.
	a loss of topold		4 3
	200	197 1	4 11
	10	12	8 10
	8	7 1	17 0
tions	300	350	0 (
	100	-	
	50	50 1	
	-	124	4 10
	£1,872	£2,048 1	3 10
INCE.			
	£		s. d.
••• •••	896	837	1 2
	250	216 1	14 11
	130		3 4
	20	11 1	
tive Town	200		0 0
ations			17 8
			2 4
			0 0
	500		8 4
	-	150	3 8
	£3 446	£3.075	5 2
	ations 	rations 400 1,000 50 500	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

TABLE III.

RETURN OF STATISTICS OF POPULATION FOR THE YEAR.

				Europeans and Whites.	Africans.	East Indians.	Chinese and Malays.	Mixed and Coloured.	Remarks.
55 33	Inhabitants i Births during Deaths Immigrants		,,	1,648	7,855,749	99		487	Census. Not known
	Emigrants Inhabitants		" "	1,805 (approx.) 157	8,248,536 5%				" Estimated at 5% increase on 1911 Estimated
Decrease of	**	,,		-		-	-	-	

1

TABLE IV.

ROUTINE OF SANITARY WORK DONE DURING THE YEAR IN THE TOWNS.

1.-NAME OF TOWN.

		1910.		1911.		1912,			
		AREA.	Open Spaces.	AREA.	Open Spaces.	AREA.	Open Spaces		
Lagos	 	Acres.		Acres. 11,520	3	Acres. 11,520	3		
Aro	 	320		320		320			
(badan I.	 			2,400		2,400			
Ibadan II.	 					3,200			
Oshogbo	 								
Ере	 	640		640		640			
Badagry	 					500			
Warri	 	450		800		800			
Forcados	 	250		250	1	250	1		
Sapele	 	570	1	570	1	570	1		
Dnitsha	 	· ···		1,500		1,500			
Benin	 	3,630	1	3,630		480	2		
Asaba	 					300			
Aboh	 					640			
Agbor	 	271		380		94			
Awka	 					640			
Okwoga	 			320		1,620			
Udi	 	2,560		2,560		2,560			
(dah	 					100			
Calabar	 								
Bonny	 	960		960	3	960	3		
Opobo	 			640		640			
Degema	 					155			
Brass	 								
Abakaliki	 	320		320		320			
Afikpo	 					52	1		
Bende	 								
Eket	 					74			
Ikom	 								
Ikot Ekpene	 	125		125		124			
Obudu	 					640			
Ogoja		640		640		640			
Okigwi	 	960		960		960			
Owerri	 					1,920	1		
W. PROVINCE	 				3	sq. miles. 28,600	3		
C. PROVINCE	 		2		2	22,670	4		
E. PROVINCE	 				3	28,610	5		
S. NIGERIA	 		2		8	79,880	12		

TABLE IV .-- continued.

1912. 1910. 1911. Euro-Euro-Euro-TOTAL. TOTAL. Natives. Natives. TOTAL. Natives. peans. peans. peans. 81,085 73,158 608 73,766 80,500 585 Lagos 320 334 390 18 408 23 14 Aro 3,000 59 3.059 ... Ibadan I. 42 175,042 175,000 268,000 55 268,055 Ibadan II. 12 Oshogbo 8,731 3 8,728 6,000 4 6,004 8,196 21 8,217 Epe 11,018 11,000 18 Badagry 2,513 2,449 84 2,533 2,449 64 Warri 41 2,743 35 2,778 3,335 32 3,367 Forcados ... 2,031 2,000 31 23 1,023 1,000 23 1,023 Sapele ... 1,000 12,058 Onitsha ... 10,000 54 10,054 12,000 58.... 10,809 Benin 8 10,359 10 10,369 10,799 10 21,509 Asaba ... 21,500 9 25 1,055 3 491 Aboh 1,030 488 5 1,555 10,000 8,405 6 8,411 1,550 Agbor 10,083 10,080 3 Awka 383 6 379 4 4,130 4,136 Okwoga Udi 267 9,297 9 9,306 550 7 557 ... Idah 1,500 5 1,505 Calabar ... 16,868 14,263 150 14,413 16,720 148 ... 3,028 52 3,052 3,000 28 3,000 Bonny 57 1,357 Opobo ... 1,061 48 1,109 1,064 58 1,122 1,300 440 Degema6 40 400 40 17 Brass .16 18 Abakaliki 170 3 173 176 5 181 182 3 185 15,552 9 15,561 14 Afikpo Bende ... 3 6,593 6,590 5 607 Eket 600 7 2 4,002 9 Ikom 4,000 5 .8 1,559 640 Ikot Ekpene 645 5 650 1,551 635 7 3,007 Obudu ... 3,000 ... 11 458 Ogoja 236 4 240 1,550 11 1,561 447 7 6 Okigwi ... 415 6 421 2,563 2,570 587 593 Owerri 9,777 16 9,793 .8 W. PROVINCE 2,152,848 2,152,848 862 ... 906 C. PROVINCE 2,408,594 2,408,594 E. PROVINCE 586 3,297,247 3,297,247 S. NIGERIA 2,354 7,858,689 7,858,689

Census

Rotarn,

1911.

2.-POPULATION.

9.6176

3.—HOUSING.

		istre	UO	191	0.	rion		115	1911.	EU DE	1912.			
		2	Н	OUSES.	Н	lurs.	Ho	oses.	Hu	rs.	н	DUSES.	I	IUTS.
			E.	N.	E.	N.	E,	N.	. E.	N.	E,	N.	E.	N.
Lagos							205	10,	742		233			10,742
Aro			9	51	1	6	9	51	1	8	. 9	60		11
Ibadan J	I						33	26			33	26		
Ibadan J	II						19	60,	000		22			60,000
Oshogbo											12			
Epe			3				3				3			
Badagry											11	6		
Warri			16				19	55			30			95
Forcados			11				13	102		66	17	560		405
Sapele			9	17	1	205	11	17		211	11	17		217
Onitsha							32	97		1,512	34	250		1,400
Benin			5				5	6		1,025	8	15		1,051
Asaba											4	1		5,000
Aboh			.9	6		50	9	6		53	3	19		85
Agbor			5	13		5,715	5	13		5,715	5	16		575
Awka											3			
Okwoga			5			119	6			152	4	1		197
Udi			8	9		170	8	9		175	8	9		175
Idah											4			
Calabar			61	1,011							64	44		2,046
Bonny			0	300			8	326		74	8	326		74
Opobo							12	21		96	13	32	·	117
Degema			4	2			15	12			4	114		10
Brass			4				7				8		·	
Abakalil				10		25	3	10		25	4	10		31
Afikpo			224								5	51	·	
Bende			1.112								4			
Eket											2			64
Ikom									-11		2	24		
Ikot Ek						117	4	11		120	1			
Obudu			-221	1		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1							10	
Ogoja			1			149	4			151				169
Okigwi					7	139		100	7	159				147
Owerri							1		4	160	1		4	. 160
							-						-	
W. PRO	1.19.19		12	51	1	6	269	77	70,751		323	92		70,753
C. PROV	_			45	1	6,259	108	305		8,909	131	975		9,200
E. PROV	INCE		86	1,332	7	430	54	380	11	785	116	601	14	2,818
S. NIG	ERIA		166	1,428	9	6,695	431	762	70,762	9,694	570	1,668	14	82,771

4.—MOSQUITO PROTECTION OF HOUSES.

		_	1	1910.			19	911.		1912.				
.12		Number wholly protect- ed.	With mosq. proof room.	protected	Partially protected in 1910,	Number wholly protect- ed.	With mosq. proof room.	Wholly protected in 1911,	Partially protected in 1911.	Number wholly protect- ed,	With mosq. preof room.	Wholly protected in 1912,	Partially protected in 1912.	
Lagos		2	33		6	2	48		15	22	87	20	39	
Aro			9				9			1	20	1	11	
Ibadan I.						2	8	2	2	2	8			
Ibadan II.						5	7			5	7			
Oshogbo										2	1	1		
Epe			2				3				3			
Badagry											5			
Warri			7		5		13		6		13		2	
Forcados		1	4		1	1	9		5	1	15		7	
Sapele		3		2		3				3				
Onitsha						8	5	4	2	9	4		1	
Benin			1		1	1	1	1	1	1	3		3	
Asaba											1			
Aboh		3	4			3	6	2	2	2	1			
Agbor														
Awka														
Okwoga														
Udi														
Idah												1	1	
Calabar										1	4	1	2	
Bonny														
Opobo						1	3			1	. 2			
Degema					1		3		1		3		1	
Brass													2	
Abakaliki			3				3				2			
Afikpo										1	1			
Bende											3		3	
Eket														
Ikom	••••						1		1	1		1		
Ikot Ekpe	ne	1				1								
Obudu														
Ogoja	••••													
Okigwi														
Owerri														
W. PROVI	NCE	2	44		6	9	75	2	17	32	131	22	50	
C. PROVIN	CE	7	16	2	7	16	34	7	16	16	37	1	14	
E. PROVIN	CE	1	3		1	2	10		2	4	15	2	8	
S. NIGEI	AIA	10	63	2	14	27	119	9	35	52	183	25	72	

5.—ERECTION OF NEW BUILDINGS DURING THE YEAR.

Lagos 120 132 132 113 290 Aro 2 113 290 Ibadan I 2 1 11 Dadan I 1 11 <th></th> <th></th> <th></th> <th></th> <th>1910.</th> <th></th> <th></th> <th></th> <th></th> <th>1911.</th> <th></th> <th></th> <th colspan="5">1912.</th>					1910.					1911.			1912.				
Lagos 132 113 290 Aro 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <			Public Bidgs. with full sanction.	Houses with full sanction.	Huts with full sanction.	Houses without sanction.	Huts without sanction.	Public Bldgs. with full sanction.	Houses with 1ull sanction.	Huts with full sanction.	Houses without sanction.	Huts without sanction.	Public Bldgs. with full tanction.	Houses with full sanction.	Huts with full sanction.	Houses without sanction.	Huts without sanction.
Ibadan I. 1 11 Ibadan II 1 1 Bologbo 1 Bologbo 1	Lagos					120					132			113	290		
Ibadan II	Aro									2				1			1
Oshogbo <	Ibadan I.								2				1		11		
Epp 2 1 3 2 Badagry </td <td>Ibadan Il</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td>	Ibadan Il							2							1		
Badagry <	Oshogbo													1			
Warri 5 18 7 24 9 16 2 2 Foreados 13 11 4 34 2 3 24 24 24 24 Sapele 2 6 44 34 2 3 24			2	1					3				2				
Forcados 13 11 4 34 2 3 24 24 24 Sapele 2 6 44 2 3 24 24 24 24 19 Onitsha 25 24 1 Benin 25 2 28 Asaba 211 1 4 15 1 3 1 3 1 3 1 3 1 3 1 3 1 3	Badagry															1	
Sapele 2 6 44 2 19 Onitsha 1 15 107 24 Benin 22 28 Asaba 1 1 1 Aboh 11 1 1	Warri		5	18				7	24				9	16	2	2	2
Onitsha 1 15 107 24 Benin 3 25 22 28 Asaba 1 1 Aboh 118 11 1 1	Foreados		13	11				4	34	2			3	24	24	24	
Benin 25 2 28 Asaba 1 Aboh 118 1 3 1 1 3 1 1 1 1 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Sapele							2	6	44			2		19		
Asaba 1								1	15	107				24			
Aboh 118 211 1 2 Agbor 2 1 1 1 1 1 1 4 15 Awka <t< td=""><td></td><td></td><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td>25</td><td></td><td></td><td></td><td>2</td><td>28</td><td></td><td>7</td></t<>			3							25				2	28		7
Agbor 2 1 1 4 15 Awka <																1	••••
Awka <th< td=""><td></td><td></td><td></td><td>1000</td><td>118</td><td></td><td></td><td></td><td></td><td>211</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>				1000	118					211							
Okwoga 1 3 Udi 1 5 <td></td> <td></td> <td></td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td>1</td> <td>4</td> <td>15</td> <td></td> <td>53</td>				2					1				1	4	15		53
Udi 1 5 </td <td></td> <td>••••</td> <td></td> <td>1 2 3</td> <td></td> <td></td> <td>•••</td> <td>••••</td>		••••											1 2 3			•••	••••
Idah <th< td=""><td></td><td></td><td></td><td>••••</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td>3</td><td></td><td>***</td><td></td></th<>				••••									1	3		***	
Calabar 3 2 2 1 7 Bonny 1 3 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>õ</td> <td></td> <td>•••</td> <td></td> <td></td> <td></td> <td></td> <td></td>									1	õ		•••					
Bonny 1 3 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Idah																
Opobo 4 5 12 35 3 2 15 11 Degema 1 5 12 35 1 12 10 3 Brass 3 1 2 1 22 10 3 Abakaliki 1 10 4 1 20 25 2 1 7 Afikpo 12 Bende 12 Bende				3				1							1	7	16
Degema 1 5 12 35 1 12 10 3 Brass 1 2 1 12 1 2 1 Abakaliki 1 10 4 1 20 25 2 1 7 Afikpo 2 1 22 1 7 Afikpo 12 2 1 7 Bende 10 11 12 10 3 Bende 10 10 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1 31</td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>6</td>								1 31					-				6
Brass 1 2 1 2 1 Abakaliki 1 10 4 1 20 25 2 1 7 Afikpo 1 20 25 2 1 7 Bende 12 Bende				100.00				1	10.20							12.2	
Abakaliki 1 10 4 1 20 25 2 1 7 Afikpo 12 Bende 12 Bende 12 Eket <td< td=""><td></td><td></td><td></td><td></td><td>10000</td><td>1 2222</td><td></td><td>1 0</td><td>188</td><td>35</td><td></td><td></td><td></td><td></td><td></td><td>1.10</td><td></td></td<>					10000	1 2222		1 0	188	35						1.10	
Afikpo 12 Bende 12 Eket 12 Ikom 4 Ikom 2 5 10			1 1 23	109533	1 1000				1.2.2				1000	1			
Bende <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>1 million</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>							1 million										
Eket						1.000	1000										
Ikom 2 5 10 2 5 10 2 5 10 2 2 30 2 2 30 2 2 2 30 2 2 2 30 .			1.000	10000			1					10000	1000			10.00	
Ikot Ekpene 3 8 14 2 2 2 30 Obudu 2 2 2 30 Ogoja			1	1000					1000			1000			0		
Obudu <td< td=""><td></td><td></td><td>1000</td><td>1.000</td><td>10.20</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1.2.2</td><td></td><td></td></td<>			1000	1.000	10.20										1.2.2		
Ogoja 42 Okigwi 5 20 2 28 Owerri 20 2 28 Owerri 20 2 28 W. Province 2 1 .	-						a la cale					and a					
Okigwi 5 20 2 28 Owerri 20 2 28 W. PROVINCE 2 1 5 W. PROVINCE 2 1 120 2 5 2 132 3 115 302 1 C. PROVINCE 21 31 118 14 81 394 17 73 90 27 E. PROVINCE 8 22 27 3 12 50 127 2 10 13 35 149 22 S. NICERETA 24 54 145 140 22 544 10 23 202 541 50	Ogoja			1626		1000	1000				1000	1000			42		69
Owerri <t< td=""><td></td><td></td><td>1000</td><td></td><td>10000</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2</td><td></td><td>28</td><td></td><td></td></t<>			1000		10000								2		28		
W. PROVINCE 2 1 120 2 5 2 132 3 115 302 1 C. PROVINCE 21 31 118 14 81 394 17 73 90 27 E. PROVINCE 8 22 27 3 12 50 127 2 10 13 35 149 22 S. NICERDA 21 54 145 149 22 20 13 35 149 22												1			5		
E. PROVINCE 8 22 27 3 12 50 127 2 10 13 35 149 22	W. PROV	INCE	2	1		120		-		2	132		3	115	302	1	1
S NICEDIA 21 54 145 100 00 100 500 104 10 22 002 541 50	C. PROVI	NCE	21	31	118			14	81	394			17	73	90	27	62
8 NIGERIA 31 54 145 193 98 136 523 134 10 33 223 541 50	E. PROVI	NCE	8	22	27	3		12	50	127	2	10	13	35	149	22	91
	8. NIGE	RIA	31	54	145	123		28	136	523	134	10	33	223	541	50	154

[279333]

5.—ACTION TAKEN.

			19	910.			1	911.		1912.			
			BER OF	NUM DEMOL		Num Prose	BER OF CUTIONS.	NU Демо	MBER LISHED.		BER OF		MBER LISHED.
LT. MIL		Huts.	Houses.	Huts.	Houses.	Huts.	Houses.	Huts.	Houses.	Huts.	Houses.	Huts.	Houses
Lagos		 							136				206
10		 											
Ibadan I.		 											
Ibadan II.		 											
Oshogbo		 											
Epe		 											
Badagry		 											
Warri		 										10	
		 	50						1			110	
G 1		 				27		38				13	
0.11.1		 											
D		 						45		9		9	
Ant		 								1			
41.1		 											
Okwoga		 										6	
Udi		 											
Idah		 											
Calabar		 						Aro Lines.				4	1
Bonny		 						6					
Opobo		 		5 ranges								4	
Degema		 										32	
Brass		 		6				3				5	
Abakaliki		 		10	2			19	7			1	2
Afikpo		 											
Bende		 											
Eket		 											
Ikom		 											
Ikot Ekper	ıe	 		8				1	ì			30	
Obudu		 											
Ogoja		 										84	
Okigwi		 											
Owerri		 										48	4
W. PROVID	NCE	 							136				206
C. PROVIN	CE	 	50			27		83	1	9		148	
E. PROVIN	CE	 		24 5 ranges	2			29 Aro Lines	8			208	7
S. NIGER	AIA	 	50		2	27			145	9		356	213

TABLE IV. -- continued.

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6.—MARKETS.

				1910.			1911.		1912.			
			Number.	Paved and Drained.	Unpaved.	Number.	Paved and Drained.	Unpaved.	Number.	Paved and Drained.	Unpaved	
Lagos			10	4	6	10	4	6	10	- 4	6	
Aro							· · · ·					
Ibadan I.					···· ·	1		1	1		1	
Ibadan II.						20		20	16	• 7	16	
Oshogbo				····	· · · · · · ·				1	· · · ·	1	
Epe			1	• • • • • • • • • • • • • • • • • • • •	1	1		1	2	····	2	
Badagry									1		1	
Warri			1		1	1		1	1		1	
Forcados			1		1	1		1	1		1	
Sapele			1		1	1		1	1	· · · ·	1	
Onitsha						2		2	1	· · · · ·	1	
Benin			2		2	2		2	2		2	
Asaba									5		5	
Aboh			9		9	9		9				
Agbor		****	1		1	1		1	1		1	
Awka									4		4	
Okwoga												
Udi			1		1	1		1				
Idah									1		1	
Calabar			3		3	3		3	3		3	
Bonny						1		1	1		1	
Opobo			1		1	1	· · · ·	1	1		1	
Degema						1		1	4		4	
Brass												
Abakaliki			15		15	15		15				
Afikpo									4		4	
Bende	***	•••							1		1	
Eket		•••							1		1	
Ikom									7		1	
Ikot Ekpe	me	•••	1		1	1		1	1		1	
Obudu	•••	•••							1		1	
Ogoja	•••											
Okigwi Owerri												
Owerri		•••				1		-	-		1	
W. PROVI	NCE		11	4	7	32	4	28	31	4	27	
C. PROVIN	CE		16		16	18	••••	18	17		17	
E. PROVIN	CE		20		20	23	·	23	25		25	
S. NIGEI	RIA		47	4	43	73	- 4	69	73	4	69	

[279333]

10A

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7.—SLAUGHTER HOUSES.

	101		1910.	100		1911.	0		1912.	
to be a first of the		Number.	Paved and Drained.	Un- paved.	Number.	Paved and Drained.	Un- paved.	Number.	Paved and Drained.	Un- paved
Lagos		2	2		2	2		2	2	
Aro		·								
Ibadan I.										
Ibadan II.								1	1	
Oshogbo										
Ере		1	1		1	1		1	1	
Badagry								1	1	
Warri					1	1		1	1	
Forcados										
Sapele										
Onitsha					1	1		1	1	
Benin										
Asaba										
Aboh										
Agbor										
Awka										
Okwoga										
Udi			i					1		1
Idah								1	1	
Calabar		1	1		1	1		1	1	
Bonny										
Opobo										
Degema										
Brass										
Abakaliki										
Afikpo										
Bende										
Eket										
Ikom										
Ikot Ekpene	e									
Obudu										
Ogoja										
Okigwi										
Owerri										
W. PROVING	ar	3	3		3	3		5	5	
C. Provinci	s		·		2	2		4	3	1
E. PROVINCI	B	1	1		1	1		1	1	
S. NIGERI		4	4		6	6		10	9	1

		BHI	A P	Number.	
		ITO	The second	.simos	4 5 1 <th1< th=""> <th1< th=""> <th1< th=""> <th1< th=""></th1<></th1<></th1<></th1<>
		DEMOLISH	-	Number.	
				Seats.	160 1100 1
		REPAIRED.	FR-	Number.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
		IVA	4	.steo8	1173 6 6 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	ci	RE	MALE.	Number.	
	1912.	-	- 1	Seats.	
		ONES	FE-	Number.	
			-	Seats.	86 4 16 16 6 2 7 113 8 113 8 1 113 8 1 113 9 113 2 113 2 113 113 113 113 2 113 113 113 113 113 113 113 11 11 11 11 11 11 11 11 11
		NEW	MALE.	Number.	
				Seats.	
		RE	PR-	Number.	
		TOTAL NUMBER.		Seats.	
		NUN	MALE.	Number.	1 1
			~		$\begin{array}{c} & 0.1 \\$
		IBD	FR-	Scala.	
		CIBI		Number.	
		DEMOLISHED.	ALE.	Stats.	
		DB	X	Number.	
		i.	FRMLT.	Seats.	190 1190
10.		IRE	Fxm	Number.	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
commuea.		REPAIRED.	4	Scats.	198 6 6 7 10 10 10 10 10 10 10 10 10 10 10 10 10
UH		R	MALE.	N umber.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(P)	1911.	-	1	.stank	
	-	ONES.	FE- MALE.	Number.	
ES-		0		.almos	
FZ		NEW	MALE	Number	8 03 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
TRI		-	_		
LATR			FEMALE	.stand	207 207 207 207 207 207 207 207 207 207
LAB		(BE3	24	Number.	
- 1		NUMBER	LS.	.steoS	318 6 6 6 6 52 6 52 65 858 6 6 6 6 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1
œ.		~	MALS.	Number.	
	-	ä		.atao8	
		SHED.	P.S. MALE.	.79dmmN	n =
		OLD	_	.stao8	
		DEMOLIS	MALE.	Number.	
			-	.steod	
		REPAIRED.	Fr-	Aumber.	
		IIVa		Beats.	
		REI	MALE.	Number.	
	1910.	-	-		
	1	ONES.	FE-	Number.	
		M O		.staod	
		NEW	MALE.		
		-	-	.Todmu V.	
		-	FRMALE.	Seats.	1196 1116 1116 1116 1116 1116 1116 1116
		NUMBER.	PE	Number.	
		NUN	18.	.staoB	219 4 4 10 10 10 10 10 10 10 10 10 10 10 10 10
		-	MALE.	Mumber	

.....

-continued TABLE IV

> Warri Forcados Sapelo Omitalia -Benin -Asaba -C. Paovisce -Owerri -Owerri -Owerri -Lagos ... Aro ... Ibadan I. Ibadan II. Oshogbo Epe ... Badagry

NIGERIA E. PROVINCE

8.—LATRINES (PRIVATE).

	Cosspools Cosspools	1 1 1 1 1 1 1 1 1 1		1 : : : : : : : : : : : : : : : : : :
	Cesspools Cesspools			10 11 11 12 12 12 12 12 12 12 12
	ceseboops [,] X ^{0M}		$\begin{smallmatrix}&&&\\&&&\\&&&\\&&&\\&&&\\&&&\\&&&\\&&&\\&&&\\&&$	$\begin{array}{c c} 18\\ 1\\ 19\\ 19\\ 19\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10$
	Cesspools cleansed.			110 1110
1912.	Cesspools.	: : : : : ⁰¹	$\begin{smallmatrix}&&&\\&&&\\&&&\\&&&\\&&&\\&&&\\&&&\\&&&\\&&&\\&&$	110 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
19	Number of Number of men.	150 8 1 8 1 8 1 9 9 9 9 9 9 9 9 9 9 9 9 9 9	42 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	78 100 125 85 85 114 114 1153 153 153 153 153
	Number of clean pails substituted for dirig ones,	950 27 31 6 16 16	$159 \\ 61 \\ 61 \\ 61 \\ 61 \\ 63 \\ 16 \\ 13 \\ 27 \\ 13 \\ 23 \\ 28 \\ 13 \\ 13 \\ 13 \\ 13 \\ 13 \\ 13 \\ 13 \\ 1$	745 48 59 59 59 26 41 42 83 88 86 60 11,838 718 718 718 73208
	Pails removed daily.	950 27 27 27 27 31 31 6 16 16	159 1122 61 115 115 115 115 115 128 128 128 139	741 48 59 59 50 44 32 38 38 50 11 108 1,152 718 1,306 3,176
	Number.	27 57 35 12 8 13	83 499 499 113 113 13 13 13 13 13 13 13 13 13 13 1	263 24 34 34 34 26 22 4 26 11 18 14 18 14 18 14 10 410 410 511
	Cesspools regularly oiled.			11111 1111111111111111
	Cesspools. Boolisbed.		1::::::	$\begin{array}{c c} & & & \\ & & & & \\ & & & & \\ & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & &$
	cessboors' Zem			26 118 118
	Crespools cleansed.		1111.1111111	102 1 1 104
1911.	.eleoqeao			102 1 1 1 1 1 4 4 1 108 129
-	Number of night soil nen	150 12 14 14 14 14	$\begin{array}{c} & & & & & & & & & & & & & & & & & & &$	15 7 8 8 8 6 6 14 14 14 14 14 14 16 16 380
	Number of clean pails substituted tor dirfy ones,	21 21 37 14	113 68 119 119 119 118 118	435 47 43 43 43 43 43 16 33 12 30 55 55 55 55 55 55 55 55 55 55 55 55 55
	pavomar alia?.	900 21 37 8	113 68 61 195 195 195 195 195 195 195 195 195 19	435 475 43 16 28 28 28 28 28 28 28 28 28 28 28 28 40 40 40 40 43 56 43 40 40 40 40 40 40 40 40 40 40 40 40 40
	Number.	121 121 37	75 35 49 19 19 18 18 18 18 18	$\begin{array}{c} 147\\ 147\\ 31\\ 31\\ 31\\ 10\\ 128\\\\ 8\\ 22\\ 1.5\\\\ 1.5\\ 1.5\\ 307\\ \hline 132\\ 307\\ \hline 132\\ \end{array}$
	Cesspools Cesspools	1111111		11111 11111111111111
	Cesspools. Cesspools	⁵⁴ ⁴⁶		83 83 83
	cessboops. New	•• • • • • • •	1 1 1 1 1 1 1 1 1 1 1 1	84 10 255 255 255 255 255 255 255 255 255 25
	Cesspools clearned.	= : : : : : :	11111111111	104
1910.	Cempools.	= : : : : : :	- 1 : : : : : : : : : : : : : : : : : :	104
	Number of night soil nem,	101 101 101 101 101 101 101	1 ⁶ 1 4 1 1 9 1 1 33	18 9 6 6 12 12 12 12 12 12 12 12 12 12 12 12 12
	Wamber of clean patients substituted for dirity ones.	800 20 16	$\begin{smallmatrix}&&7\\&&1\\&&&\\&&&\\&&&\\&&&\\&&&\\&&&\\&&&\\&&&\\$	435 475 81 28 28 16 16 16 10 28 61 836 61 117 11619
	Pails removed daily.	800 20 16	1 2 1 1 2 1 1 1 2 1	433 473 417 311 311 258 258 410 610 610 610 610 1,631
	Sumber.	151 1 1 1 1 1	1 25 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	147 31 31 31 31 8 31 8 31 6 6 6 6 6 6 10 10 10 10 10 10 10 10 10 10 10 10 10
		1111111		
			11111111111	
			1111111111111	
		Lagos Aro Thadan I. Dadan II. Oshogbo Epe Badagry	Warri Foreados Sapele Onitsha Benin Asaba Aboh Agbor Awka Udi Idah	Calabar Bonny Opozo Degena Degena Brass Afakaliki Afako Brass Afako Brass Afako Brass Afako Brass Degeja Okigwi Overri W. Phovysce E. Paovysce E. Paovysce S. NIGERIA

9.--REMOVAL OF REFUSE. 1911.

			1	1910.					1911.						1912.	0.00		
	Dust bins.	Carts removing street refuse.	Amount of Refuse.	Carts removing refuse from yards and premises.	Amount of refuse from yards and promises.	Men employed.	Dust bins,	Carts removing street refuse.	Amount of Refuse.	Carts removing refuse from yards and premises.	Amount of refuse from pards and premises.	Men employed.	Dust- bins.	Carts removing street refuse.		Carts removing refuse from yards and premises.	Amount of refuse from yards and premises.	Men employed.
	99	:	130 tons	:	o hand	200	60	20 hand carts	180 tons	:	10 harrole	250	63 24 hele	40	180 tons 34 harrels	:	: :	250 3
Thadan L.	: :	: :	2 0110.	: :		4			3 cwt.		5 cwt.	10		+	5 cwt.	1	1 ton	22
Ibadan II.				: :							2 cwt.	10	00				2 cwt.	9
Oshogbo				:	:		:						12				1 barrel	+
	-	:	:		:	12	11					12	11 .					10
Badagry	:						::							:		:	:	14
	5.4											10	. 62	4	20 cart loads.	0		42
2	100	:					150				150 bins	19	3 8				66	00
Sapele		: :	2 brls.	: :	: :			: :	10 brls.	: :		59			1 ton	:	1 ton	15
					:					::			28 brls.	·	28 barrels		28 barrels	10
Benin	18	:			:	10	55	1		c 4		10	29	94	50 barrels		27	11
Aboh	:	:	:	:	:			:	:	:	20 hine	:		: :	8 pails	: :	10 pails	9
Agbor					: :													
Awka	:	:	:					:					:				7 barrels	9
Okwoga	6						6						6	:		:		201
ipn		:		:				:			:	10	:	:			11 harrols	10
10an		:			:				:	:	:	:			:	:		,
Calabar	47				:	28	47		:			34	10	1	4 tons	:	:	75
			:		as house		90		165 drums		10 . 1004	01	205		40 cubic feet.		40 c. foot	10
Derema		-	:		20 DMILLERS	2	07		182 drams	: 1	150 drums	0.7	16 drum		46 drums	: :		6
		: :	: :	: :	1 ton	: :	58	: :			1 ton	: :	19				1 ton	
Abakaliki	18	::	36 drums		36 drums	9	24		48 drams	1001	48 drums	9	23 2	:	32 tins	:	sun ze	0.0
	:	:			:			:		:	:		1		:	:	: :	0
Eket	: :		: :				:				: :				8 barrels		:	10
			: :		: :		: :	: :	: :			9			:		:	24
Ikot Ekpene						12	:	:				14	22	:	:		:	20 0
Obada	:	:	:					:					14			:		01
Okizwi	:			:	146 o foot	10			:			14		: :	: :			
:		: :	: :	: :					: :	: :				:				+
W. PROVINCE	62	:				214	22	21		-	:	284	174	44		1	:	808
C. PROVINCE	181	:			:	33	244	-		61		85	235	9	:	64	:	152
E. PROVINCE	148	:	:			83	259			:	:	104	229	5		:		177
e NTOEDTA	100					000	002	100				472	628	55		00	:	638
						000	000			0		011	000					

10.-MODE OF DISPOSAL OF EXCRETA, REFUSE AND OFFAL.

		1 former 1					
	OTRENTISE DEALT WITH.	Cartloads Offal per day.	1111111	111111111111	111111111111111	1 1	1 1
	ALT	Carcloads Refuse per day.	111+111	111111111111	111111111111111111	i i	1 1
	5 4	Pails Excreta	1111111	111111111111	11111111111111	1 1	11
	SEA.	Cartloads Offal per day.	111111	* : := : : : : : : : : :	1 drum	: :	1 1
	TREOWS INTO	Cartloads Retues		s 28 harrels 18 18 18 18 18 18 18 18 18 18 18 18 18	10 6. ft. 64	1 1	1 1
	A	Pails Excreta	R	8858 : 18 : : : I		306	599
1912.		Cartloads Offai per day.		11111111111	111111111111111	1 1	1 1
	BURNT.	Cartloads Refuse per day.	150 tons 12 1 ton	52 barrels	4 1 2 3 1 22 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	About 193 tous 52 harrels	8 :
		Padis Excreta	1111111	111111111111	111111111111111	1 1	11
	1	Cartlonds Offal	1111111	111111111111	111111111111111	1 1	1 1
	BURERD OR TRENCHED.	Cartlonds Refuse per day.	34 harrels	7 barrels 6 barrels	::::::::::::::::::::::::::::::::::::::	1 1	
		Pails Excreta	1886835 ;	1 1 12 8 9 12 1 12 1 12 1 12 1 12 1 12 1	1081288: I 1 188: I 1 155	213	648
	a il	Cartloads Offisi per day.			11111111111111111	1 1	1 1
	OTREEWISE DEALT WITH.	Cartlonds Refuse per day,			11111111111111	1 1	1 1
	OTH	Per day.	1111111	1 2	1	: 2	1 2
	SEA.	Cartionds Offial per day.	1111111		111111111111111	1 1	1 1
	THEOWS INTO SI	Cartloads Refuse per day.		•	165 drums 105 drums 181 harrels		
	THEO	Pails Excreta.	§ : : : : : :	⁶ [∞] : : : : [∞] : : : : : 1	84 1251 1 1 1 1 1 1 1 1 1 1	132	525 1557
1911.		ber day.		111111111111	11111111111111111	1 1	
	BURNT.	Cartloads Refuse per day. Cartloads Offal	80 tons 1 20 1 fond			200 tons 9	1 1
	-	Pails Excreta			111112111111111	: 5	2 2
	be.	Cartloads Offal per day.				1 1	1 1
	EXCRED.	Cartloads Sciuse per day.	[27	111111111111		13	12 :
	Bus	Pails Excreta	1528 (*)	11122 103 100 1	1	133	133
	THE LAND	Cartloads Offal per day.	1111111	111111111111		1 1	1 1
	OTHERWISE DEALT WITH.	Carilonds Refuse per day.	1:1:11	111111111111		1 1	1 1
	OTH	Pails Excreta		11111111111		i i	
	SEL.	Cartlonds Offal per day.	111111	1		1 1	11
0.	THROWN INTO 8	Cartloads Refuse per day.	111111	* : : : : : : : : : : : : : : :	25 harrels 21 harrels 21 harrels 21 harrels 22 harrels 23 harrels 24 harrels 24 harrels 25 harrels 21 harrels 21 harrels 22 harrels 23 harrels 24 harrels 25 harrels 26 harrels 27 harrels 28 harrels 29 harrels 20 harrels		49 barrels
1910.	Two	Pails Excreta	8	18 1 1 1 1 1 1 1 1 1 1	448 147 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	75	540
		Cartloads Offal per day.		11111111111		111	11
	BURST.	Cartionds Refuse per day.	1111111	1111111110		: 0	: 0
	-	Pails Excreta	1			1 1	00 00
	CKD.	Cartloads Offal per day.			11111111111111111	1 1	1 1
	BURED OR TRENCHED.	Carilonds Refuse	1.011111			@ i	1 0
	Tu	Pails Excreta	18 1 12 1	1 1 18 10 S 10 0 1	111100111181851	8 8	134
			+1+1+1+1	11111111111	11111111111111	1 1	Y
			1111111	111111111111	1111111111111111	TINCE	SASTRES PROVINCE SOUTHERN NIGERIA
			Lagos Lagos Aro Aro Ibadan I. Dakogło Kipe Badagry	101111111111	Calabar Denny	WESTERS PROVINCE CENTRAL PROVINCE	SOUTHERN NIGH
			- 194 C	Warri Foreados Sapele Onitala Jenin Asoh Asoh Avelor Davega Udi	Calabar Bonny Depolo Depolo Depolo Brass Brass Ricet Ricet Ikon Ricet Ogoida Ogoida Ogoida	WESTERS.	TH

				1910.	1911.	1912.
Lagos				 J		
Ibadan I.				 	1	1
Ibadan II				 		
Pas				 		
n 1				 		
Warri				 		
Forcados				 		
Sapele				 		
Onitsha				 		
Benin				 		3,000 Barrows
Asaba				 		
Aboh				 		
Agbor				 		
Amba				 		
Okwoga				 		
TT AL				 		
Idah				 		
Calabar				 		4 tons
Bonny				 		
Opobo				 	68228 Bottles 21860 Time	10 c. ft.
Degema				 		2
Brass				 	39029 Bottles, Tins, etc.	
Abakaliki				 		••••
Afikpo				 		8 pails
Bende		.,.		 		
Eket				 		
Ikom				 	1 Barrel	12 Barrels
Ikot Ekpe	ene			 		
Ogoja	'			 		
Owerri				 		
WESTERN	PROV	INCE		 		
CENTRAL	PROVI	NCE		 		
EASTERN	PROVI	NCE		 		
SOUTHE	RN N	NIGE	RIA	 		
	0000			 		11

11.—CARTLOADS TIN CANS, BOTTLES, AND INCOMBUSTIBLE MATERIAL FROM HOUSES, HUTS AND COMPOUNDS.

[279333]

73

12.-WATER SUPPLY, 1910.

		M.P.	322	:									:															:			:	:	:	:		:			322	:	:	322
	BARRELS.	Number.	1,337 3	:			::		:															641		:				:	:	:	:	:		:		1	1,337 3	:	641	1,978 3
-		-	74 1,					-10				6.	0										-	1					1										82 1,	21	-	104 1,
	NATURE.	. Concrete.				:	:				1		_												:		:					:						-				
	NAT .	1. Iron.	309	10	:			6				84	11		-		60	:	:		:			44		:		++	-	:	:	1	:						356	104	44	504
		Wcod.	:	:	:	:		:			:			:	-	:	-	:	:			:		:	:	:		-	:	1	:	:	1							:	-	-
		gullons Above or less. gullons.		24		:	:	:	:	_	:	59	01	;			:		:	:				:	:	-	:	-	:	:	1	:	1	:					01	68	:	20
		graller or less	-	25		:	:	15	:		-	34	¢4	:	:		:	:	:					:	:	:	:	:		:	:	:	:	:					53	36	:	83
	PRIVATE.	M.P.	266	40		:	:	15	:			98	39	-	:			:	:			:		:	:	-		40		:	:	:	:	:			: :		311	139	40	490
K8.	Pa	Above ground.	383	40		:		15	;			93	42					:						42	:	-		65		:	:	:	:	:					438	142	28	667
TANKS.		M.P.	-	:							-				-		-		:					:	:		:	:		:	:	:	:	:					1	15		16
		Under ground.	-	:		:			:		1-		:	:	1-	:	-	:	:		:			:	:	:	:	:	1	:	:	:		:					1	15	:	16
		Above 400 gallons.	:	;		:								:										:		01							:	:						:	63	C4
		gallons Above gallons 400 or le-s, gallons	:															•••	::	1				:		107		P	-		:			:						1	28	29
		M.P.	:				:																			62			-	:	:		:								30	30
	PUBLIC.	Above ground,	:	:			;	:					:		:			:		-				64		60			-	:	:		:				: :	Ì		1	32	33
		A.P., &c., pump. 8	:										:		:									:		:				:	:		:				:	Ì				:
		Under	:	:	:	:			:		:		:	:	:		:	:	:					-		:	:		:	:	:		:				:	İ	:	:	1	1
	1	M.P., &c.	:		:		-	1			13		-				1	:					-	;		-	:	:		:	:		:					Ì	-	15	1	17
	PRIVATE.	Nu.nber.	:	:		:		o.,	:		33	69	1	:			1		:					:				0	:	:	:						:	1		37	2	42
WELLS.	-	M.P., Nt.	18		:	:			:		. 9	:	-				:		:					:	:			0	:	:	:		:				:	-	18	1		28
	PUBLIC.	Number.	9.9		:			5		-	9	9	1		:	:		:	:				_	24		04		0	:		:		_					+	100	13	6	122
_		_														-	-	-					_		-				+									1				
40.4	"HUTT	Public Private stand stand pines, pipes,	-	:	:	:	:		-	-		:	:	:			-	:	-				-	48		:	-		-	:			-		_			+		0	48	63
DIDE DONAL WARDS	NAD W		-				:					:	:	•	00								_	0				1	-	:								+		00	00	H
00 00	NI-B-IN	se, Linear yards.	-	:	:	-	:					:					:		:					Br	:	:		:		:	_				0			1		:	:	:
-	-	Jource.	:	:		:		:				:	:	-	River	:	_	River	:		Spring			Spring	:		:	:	_	Spring	:				Surino			1		:	:	:
			1										:													:		:	-		-	:	:						cs		:	··· V)
			Lagos	Aro	Ibadan I.	Ibadan II.	Oshogbo	Epe	RTV.		Warri	2	Sanele	Onitsha	Benin	Asaba		Agbor			TIdi	Idah		Calabar	Bonny	Opobo	Degema	Brass	Abakaliki	Afikpo	Bende	Eket	Ikom	IKOT EKpene		Obtowi			W. PROVINCE	C. PROVINCE	E. PROVINCE	S. NIGERIA

TABLE IV.-continued. -WATER SUPPLY, 1911.

12.

M.P. 305 129 602 365 90 129 BARRELS. Number. 1,365 1,365 1,390 17 00 Concrete 105 80 2 195 NATURE. Iron. 475 38 54 54 54 54 53 57 37 37 37 37 15 249 1,140 600 291 Wood. -...... ÷ -............. Above 400 gallons 17 ci 4 - 1 1 1 86 222 86 25 266 10 181 410 110 110 118 118 118 118 118 2⁶ 96 864 661 117 2341 M.P. 619 40 56 26 18 85 933 47 31 31 19 275 1,185 96 39 40 30 40 1 699 251 PRIVATE. Above ground. 200 46 41 41 561 40 58 58 28 28 28 18 18 47 47 47 261 1,233 1 10 110 705 2.67 TANKS. à -111111111111111111 1 ÷ 멾 W. Under ground. 18 67 ÷ Above 400 gallons, : : 21 24 4-0 llons less. -10 36 R'al M. P. i -00 60 PUBLIC. Above ground. ---1 40 4 M.P. ÷ : 1111111111111 111111111111111111 Under crossed. ÷ --...... -----M. P., 1-15 01 10 ::9::-: 2 :01 111-1111 ::--111111111111 PRIVATE. Number. 2,126 30 ch. 173 2,120 60 C4 C4 : : 111 11111 11111111111 5 WELLS. P. Åc. 18 11 16 48 4 : : : : : : : X. PUBLIC. Number. 010201000 121 17 25 160 Private stand pipes, 19 ... 10 40 111111111111111111 35 ŝ PIPE-BORNE WATER. Public stand pines. + * ł 14 18 Linear yards. 7.017 7,017 3,817 3,200 : : :::: Spring Spring Spring Spring Spring Spring Spring River Source. ... River Well Well : ÷ ÷ ÷ 11111 111 ÷ 1111111 S. NIGERIA Afikpo ... Bende ... Eket ... Ikom Ikom Obadu ... Otoja ... Okoja ... W. PROVINCI PROVINCE Calabur ... Bonny ... Opobo ... Degema ... Brass ... Abakaliki C. PROVINCE Warri ... Forendos ... Saspelo ... Onitsha ... Aschon ... Aschon ... Aschon ... Aschon ... Okwoga ... Udi ... Lagos ... Aro ... Ibadan I. Dadan II. Oshogbo ... Epe ... Badagry ... Calabar al al

[279333]

TABLE IV.—continued. 12.—WATER SUPPLY, 1912.

tta.		M.P.	326	6	1	:		:		:			198	100									::			:	:			+					:			:			::				335		138	+	-	477
Reperts		Number.	1.078	13									010	01.7	:				::		1000	:								+	01					:		:							1.091	- ande	240	9		1.337
		Concrete.	165	0			10	12	2	9		00	10	00	6				0	10	10000		1							30	1			-										:	904	-	84	11		299
-	NATURS.	Iron.	514 1	49	7.6	100	207	24	14	9		106	112	011	6.9			10	20	5	1000							-		88	110	6	35			:		0						63	708	-	279	250	1	1.237
		Wood.	6												:			:									:									:		:						:	6			12		14
		Above 400 callovs.	80	01	2			30		:		122	113	014	07	43			14	6			-		1		-			20	C4	2				:	:	:	:		:	-		63	118		335	47		500
		gniltons or less.	601	49	7.6		4.0		19	12		9	22	00	22				::	9	2000	:					-		11	22	109	+				:		D	:		:		::	:	790		70	192		11.050
	ATE.	M.P.	634	51	25	0.0	00	30	19	12		121	140	0.8.4	40	10		1.1	1.1	15			1			0			0 0	36	11	00	20			:		0						c.1	854		390	184		1 400
	PRIVATE.	Above ground.	680	51	80	200	8	36	19	12		121	148	01.4	100	10		11	14	15	in the second		1			0	2	101	10	36	1111	6	35		- Contract	:		0	:					01	913		392	269	-	1.57.4
TANAS		M.P.	1		-						192	-				9					10000								•												:			:	-	•	13	-	1	1.5
		Under ground.	1	1				:				-		:		9			-							:			-							:					:			:	6		14	1	1	
I		Above 400 milions					:						1							1				1																				:			01	1	1	0
		gallons and above Under or less, gallons, ground.	2		1									:													:		+					-			:							:	01			2	1	
		M.P.	-07																	-									:					1			:							:	6		1	01		
	PUBLIC.	Above ground.	2								1000			:	:					1	- ment													1	100		:								3	-	1	5	1	0
		M.P.									122			:							New N						:		4									:							1	1		01	Î	0
		Under pround				1	:	:						:		-													4	::						:		:			-		:	:			:	-1	Ì	
	ж.	M.P., &c.			65	,		-	01			17			-1					1	1000															:					:				9		20	-	1	0.0
. 1	PRIVATE.	Number.	2,221		3	Manual	Gunner	1	67	19		17	0		19					1								-0	0 0	2			5			:					:				2.284		22	20		0 900
		A.P.,	19		1			1111	01		1916	00	1-		-							:								0	C-1	+	+					:			:		:		99	Î	16	16	Ì	8.4
	PCELIC.	Number.	101		1	0.0			9			00	1.		1			-	1	14.1										0	04	9	9									1			137		17	22	Ì	1000
-	-	Private stand	28		17		10										5	-										A.C.	0.0	:						:				:					55	Ì	9	95	Î	1.5.6
WATE		Public F stand pipes.					:	71									18												-			341			100	:									61	1	18	1-	İ	20
PIPE-BORNE WATER.		Ldmenr Public Private Yards, pipes, pipes,	4.6171		3.600	0.000	000.0	2,020							:		11.640											10 010	+00%e+										111						13.637		11,640	19,802	-	45.070
PIPEA		Source.	Well		Reservoir	Contina	Sumfo	110A19600		***					:						River				Spring	0		Contras -	-	::					Suring	Spring	Ganda	Continue	Manufa	Sundo	Spring			RIVOF		1	:			
			Lagros		I un				Epe	Badagry		Warri		1 010000 T	28 pete	Onitsha	Benin		ASHOR 801884	Aboh			AWKI					C.D.C.	:	Donny	Opobo	Degema		Abalaliki					i	B0	-	Ogoja	Ukigwi	Owerri	W. PROVINCE		C. PROVINCE	E. PROVINCE		S. NIGERIA.

13.—DRAINAGE. PUBLIC DRAINS.

When required 8 times yearly Annually Frequently Monthly Fortnightly Quartorly When required Monthly Monthly Fortnightly Monthly Monthly Weekly Weekly Every 6 weeks Frequency of clearing. Continuously Constantly Quarterly Monthly Annually Monthly Monthly Monthly : : 1912. 200 2,000 5,000 1,670 600 Lincal Yards dug. 1,547 200 1,000250 2,000 400 2,200 4,825 35,094 265,438 42,119 ÷ ł : : ÷ : 400 4,666 176,000 1,100 3,000 1,340 3,411 1,160 2,560 2,000 1,080 4,300 2,000 18,031 Idneal Yards ${\begin{array}{c}16,492\\14,461\\1,200\\22,600\\5,728\end{array}}$ 300 66,341 181,066 : : Fortnightly Monthly 8 times annually Uncertain ... When required When required When required Continuously Frequency of clearing. Fortnightly Monthly Annuslly ... Monthly Monthly Monthly ::: ÷ 1111 ÷ EARTH DRAINS. 1911. Lineal Yards dug. 286 280 980 100 1,980 1,760 3,740 5,306 6,390 1,566 111111 1,760 198,484 176,000 2,410 13,134 Lineal Yards 1,500 16,094 :: ::: : : :::: When required When required Monthly When required Thrice annually Twice monthly Continuously Frequency of clearing. Fortnightly ... Monthly ... 11111 11 ÷ i 1910. Lineal Yards dug. 4,600 4,600 : : 24,124 4,600 1111 1111 Lineal Yards 17,600 2,000 ... 2,124 1.500 2,000 4,524 9006 11 ÷ 11 : : 11111 ÷ : : Lineal Lineal Yards Yards re- con-paired.struct'd 32 1,762 2,447 5,554 130 1,631 540 ... 140 247 16 111 11 : : ÷ : : 271 203 36 :8 Ξ 11 1 : 1 -: ÷ 1912. Lineal Yards recomtruct'd 970 970 970 ; 11111 : : 111 11 1111 ÷ Lineal Yards. 13,405 1,364 2,398 1,700 1,700 20 30,201 1,700 130 :: 2,004 143 19,792 30,000 2,600 8,521 58,514 640 : : ÷ Léneal Lineal Lineal Lineal Yards Yards Yards Tecon-recon-struct'd paired, struct'd 1.304 1.100 1,100 204 190 MASONRY DRAINS. 40 40 11 1911. 1.000 100 100 25,550 1,100 ÷ 1111 111 : Limeal Yards. 18,320 1.624 118,320 3,594 3,636 220,324 .300 688 20 : : 5 Lineal Yards con-struct'd 445 400 1,972 1.524 98 1111 11 Lineal Yards re-400 : : :9 ٢ 1 3 1910. Lineal Yards recon-structd 1,356 1,356 .356 ÷ 11111 1111 S. NIGERIA ... 18,039 Lines! Yards, 5.174 1,324 1,300 12,865 12,865 : : 1111 :: 1:1: W. PROVINCE ... kot Ekpene Obndu ... C. PROVINCE PROVINCE. Lagos ... Aro ... Radan II. Dahogbo Epe ... Badagry Warri ... Foreados Sapolo ... Onitsha ... Asuha ... Akuha ... Akuha ... Akuka ... Okwoga Idah Idah ... Calabar ... Bonny ... Opobo ... Brass ... Abakaliki Afikpo ... Bendo ... Eket ... Ogoja ... Owerri ... egema...

13.—DRAINAGE. PRIVATE DRAINS.

						1911.				1312.				1910.	0.		1911.	1.		11	1912.
		MASONRY DRAINS.	DRAIN	·8.		MASONRY DRAINS	DRAIN	÷.		MASONRY DRAINS.	DRAINS		BA	EARTH DRAINS.	RAINS.	K.	ARTH	EARTH DRAINS.	-	ARTH	EARTH DRAINS.
	Lireal Yards,	Lineal Yards recon- structed.	Lineal Yards re- paired	Lineal Yards con- structed.	Lineal Yards.	Lineal Yards recon- structed.	Lineal Yards re- paired.	Lineal Yards con- structed.	Lineal Yards, r	Lineal Yards reconstructed.	Lineal Yards re- paired.	Lineal Yards con- structed.	Lineal I Yards cleaned	Lineal Yards dug.	Frequency of clearing.	Lineal Yards clonned	Lincal Yards dug.	Prequency of clearing.	Limenl Yards cleaned	Lineal Yards dug.	Frequency of clearing.
Lagos			:		:	::							:				1				
Aro									13												
Ibadan I					200	50		100	200									6 times a vear	550		f times a vear
Thadan 11.					100			100	100								:	and a second of	_	:	A MANAGO & 2 COM
Otherho			:					-					:	:		:	:		:		
Thus Dates			:		10						:	1	800	000	Thurlin a man		:		000		
Didness	24	:	:			:	:			:		:	200	-	Twice a year				000		Constantly
·· Cifumer	:		:	:			:	:	:	:	:		:	:							:
Wrand									4 166			151								1	
Thursday on					210	:			0015			105	:						:	100	
FOTCAGOS			:	100	11.0				015			101	:	:			60			66	Fortnightly
Sapelo		:	:																		
Onitsha			:						388			25									
Benin																					
Asaba			:						1,000										5,000		Every 6 weeks
hoh						::			443												Con tantly
Achor					:																
Awka			:									224							4.340	1.000	Russy 6 waaks
												1						:			the second second
		:		:									:	:				:	:		
Liah									96			065		:				:	600		When monired
									-	:		0.00		:	:		:	:	200	:	non-transformer and states and
Calabar									48.789		750				1						:
					1.266		:	_									:	:		:	
Omoto					3.447			10	3.797			350				:			:		
Decema					1,014	100		_	170							100		Monthle		:	Monthly
Brass										-			:								
Abakaliki			:																		
Afikpo		::	:										::								
Bende																					
Eket			:			::	:		120	20	80	:		::			:		300		Quarterly
Ikom		***	:		::														::		
Ikot Ekpene					-				260			60		::					500		Monthly
Obadu						::					:										
Ogoja										::				:	When required			When required		500	6 times a year
Okigwi			:										300	40	Daily			When required			Weekly
Owerri							:										101			111	
W. PROVINCE	10				310	50		200	372				800	300					1,350		
C. PROVINCE	100			186	347				6,541			1,121					06		9,940	1,090	
E. PROVINCE					5,727	100		80 5	53,736	20	830	410	300	40		100			800	009	
S. NIGERIA	10	***		186	6,384	150		280 6	0,649	20	830	1.531	1.100	340		100	66		12.090	12.090 1,590	***

14.—CLEARANCE OF UNDERGROWTH, GRASS, WEEDS, &c.

-

			1910.		1911.		1912.
		Square yards grass, &c., cut and removed.		Square yards grass, &c., cut and removered.		Square yards grass, &c., cut and removed.	Frequency of Clearance.
Lagos							
Aro		777,400	Quarterly	777,400		1,548,800	8 times a year
Ibadan I					6 times a year	217,000	6 times a year
Ibadan II.				490	Annually	450,000	Constantly
Oshogbo						1,760	6 times a year
Ере		25,000	Twice a year	100,000	Constantly	100,000	Constantly
Badagry						60,000	Constantly
Warri						340	Monthly
Foreados			Every 2 months		Every 2 months		Twice a month
Sapele		450		500	Monthly	1,350,360	Annually
Onitsha				150,000	Quarterly	200,000	When required
Benin				50,000	Quarterly	100,000	Every 4 months
Asaba						440,000	Every 6 weeks
Aboh		1			Continuously	150,000	Constantly
Agbor		60,000	Continuously	240,000	Continuously	262,500	Constantly
Awka						300,000	Every 6 weeks
Okwoga		96,800	Monthly	169,400	Monthly	96,800	Monthly
Udi			Annually		Annually	680,000	Annually
Idah						200,000	When required
Calabar						69,184	Monthly
Bonny		271,629	Fortnightly	271,629	Fortnightly	271,629	Fortnightly
Opobo				363,000	Monthly	363,000	Monthly
Degema				5,000		55,000	Monthly
Brass		48,400	Continuously			43,560	Continuously
Abakaliki		200	Every 2 months	1,000	Every 2 months	500,000	Every 6 months
Afikpo						360,000	Monthly
Bende							
Eket						100,000	Quarterly
Ikom				145,200	Quarterly	150,000	Every 2 months
Ikot Ekpene		90,000	Continuously	90,000	Continuously	1,000,000	Monthly
Obudu						3,097,600	Continually
Ogoja		96,800	When required	96,800	When required	1,452,000	6 times a year
Okigwi					When required		
Owerri							Quarterly
W. PROVINCE	s	802,400		877,890		2,377,560	
C. PROVINCE		157,250		609,900		3,779,660	
E. PROVINCE		507,029		972,629		7,461,973	
S. NIGERIA	1	1,466,679		2,460,419		13,619,193	

TABLE IV.—continued. 15. EXCAVATIONS AND LOW LYING LAND.

	den employed guilt for filing in.	:	: :	:	:		:	00		:	20	17		5		:	:	:	:	:	:			5	10	1	:	: 00		10	: "	+		63	40	103
	Persons finds and an adding sentions.	:	: :	:			:		: :		::	C4		:	:		:	:		:	:				:	:	:		:	:	:	144		24		64
	Ouble yards meterial used for filling in.	102,957	1,200			:					600	4,000		:		:		:			3,000	0,000		40			:	1.000			:		101,101	4,600	10,160	118,917
1912.	Pools, &c., fools, &c., fools defi-	:	: :	:			:	-			:	:	:	:	:		:	:			:	:	: :	:	:	:	:	: :		;;	:		:			:
1	to announk besier deram .bealerb bas	60,016					10,000		27,000	400	100	1,211	:	:	:	: :					2,500	nnne't.	:	::		:	: :		:				014'01	29,311	2,000	107,227
	Excernations filled in.		•	06		21	132	3.984		-	102	90		+	:	: :		: :	-	66	:			2	1		4	9		19		0.00	1	-	179	4,585 1
	excervations.					:	mpars	:		90	240	000				: .				44	C4 0	0 10		00	-	:	:	10	:			0 0	0 0	834	104	116
-	Pools and any for filing fin.	-								-	30								-		10			9	:							:	_	1 02		96
	bereauployed	1		•	•	•	-		•			•	•	•											•	•						-	-1			1
	Persons fined persons fined prising		: :	:	:	_	:	:	:	:		:	:	;	:	:		: :	_	-	:	-			:	:	:		:	:	:		0 0		A	63
	abar parda been lainotem tor filling in.	109,938	: :		-		:				2,000	:	:		:	: :		: :	_			0.40		¢.)	:	:	:	: :	:	1		100 000	ee'ent	2,000	3,52	115,522
1911.	Pools froatme, &c, fools of the	:	: :		:	-	:	:	:			:	:	;				: :		:	1	: :	1			1	:	: :	:	:	:	:	-			:
	to tanoark bester derson .beatierb base	50,820	: :			:			::		2,420	:		:		: :		: :			4,000	nnaiz		::			: :	: :				50 200	070'00	2,420	8,840	62,080
	Excavations,	:	: :				:			12	124	54		:	:	: :		: :		136	59		:	60			: :			-				138	141	279
	Pools and anoitavasze	:	: :	::	:	:	:			120	500	Many	:	:	:	: :		: :		8	:			9	:	:	: :	: :		:		:		620	10	625
	Mon employed daily for filling in.	: :	51				:	:	16	:	:	:	:	:	:	: :		: :		:	:	: :	:	9	:		: :				:			15	9	21
	Fersons fixed for making excavations.	:	: :	:	:					:	:	:	:			: :					:		:	:	:		: :				:					
	Cubic yards material used for filling in.	:			111	3,000	;						:		:	: :		:		:	:			12			: :				:	2 000	nonio		12	3,012
1910.	Pools, &c., fish stocked.	: :	: :				:				:		:	:		: :		: :		:	:	: :				:	: :			:	:		1	:		
1	Amount of marsh raised banadianed.	44,000	: :						:							: :		: :				: :				:	: :					44 000	000488	111		44,000
	Excavations filled up.	: :	: :	:		9	:	:	50	+		:	:			: :		: :		29	:	: :	1	¢1	:	:	: :				:		00	20	10	108
	excavations.	:	: :	:	:		:	:	24	120		Many	:	:	:	: :		: :		01	:	: :	:	4	:	:	:	: :	:	:	:	:		144	0	150
-		: :	: :	:		:	:		÷	:	:		:	:	:	: :			-	:	:		:	:	:	:	: :		:	:	:	Ť	i	1	-	
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		: :	: :				;						:			: :		: :			:	: :	:				: :			:	:		1114	***		ERIA
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		Lagos	Ibadan I.	wdan II.	Oshogbo		Eadagry	arri	Forcados	Sapele	nitsha	Denin	Abob	where are	when	Okwoza	iii o	qu		Calabar	Bonny	rema	n88	Abakaliki	Afikpo	Dibat	Ikom	Ikot Ekpene	Obudu _	Ogoja -	Oktgwi	Wreense Dagereon	A DAUGHOR A	UENTRAL PROVINCE	EASTERN PROVINCE	SOUTHERN NIGERIA
		I.age	IP	IP	ő	E.	ISI	W	Fo	Sa	ő	15C	14	-F	A.A.	10	TT	Id		0	ăċ	Â	Br	IV	Y A	NG NG	IL	Ik	õ	000	50	B	K	5 4	al l	80

	-	1	19	10.	1		191	11.		1	1912.		
		Drains oiled.	Pools and excav- ations oiled.		Men employed daily for oiling.	Drains oiled.	Pools and excava- tions oiled,	Tanks and Bar- rels oiled.	Men employed daily for ciling.	Drains oiled.	Pools and excava- tions oiled.	Tanks and Barrels oiled.	Men employed daily for oiling.
Lagos					10	1,762	5,507	70	9	1,122	5,001	56	12
Aro							23			2	9		
Ibadan I.													
Ibadan II.													
Oshogbo													
Ере													
Badagry										Numerous	Numerous	•••	2
117			2.1.		1111	1				2,180	642	254	4
Warri			48			81	131	10		47		1	1
Forcados			10000		4	A STREET		1.00					2
Sapele						 22				20			
Onitsha Benin							2	3	1		7		1
Asaba													
Asaba Aboh											4		6
Agbor Awka													
Okwoga Udi													
Idah													
Idan													
Calabar		4	2		6								•••
Bonny						3	10	2	1	15	2	4	2
Opobo							3	37	1	3	3	47	1
Degema											15		3
Brass													
Abakaliki			14		6		29		6		8		5
Afikpo											1		1
Bende													
Eket													
Ikom													
Ikot Ekpen	e					• •••					4		8
Obudu											3		
Ogoja													
Okigwi		•••				•••							
Owerri													
W. PROVING	CE				10	1,762	5,530	70	9	1,124	5,010	56	14
C. PROVINC	Е		53	7	5	103	133	13	2	2,247	665	255	13
E. PROVINC	E	4	16		12	3	. 42	39	8	18	36	51	20
S. NIGER	IA	4	69	7	27	1,868	5,705	122	19	3,389	5,711	362	47
	-											1	0

16.—OILING.

[279333]

TABLE IV.—continued. 17.—INSPECTIONS AND PROSECUTIONS

astrotoal of 1 1 1 1 1 1 04 Persons fined for insanitary conditions ... 1118 ... 89 16 808 731 70 31 31 74 23 176 7 62 195 227 insanitary condition 6,161 Notices 105 8 8 6,467 21 515 515 ... 6,545 138 128 38 111 111 111 111 111 111 111 800 13,506 Persons fined for larve. 1,598 348 89 89 86 86 85 878 593 127 23 29 29 29 29 29 29 29 50 1912. Notices against larvæ. 27 4 21 111 667 40 20 236 91 79 46 60 60 2.087 876 817 394 . 89 2,412 26,779 110 575 3,878 1,195 27 314 3,357 205 525 525 525 525 525 525 49 40 7 40 244 417 33,349 39,118 Houses where larve were found. 1178117811121112212139213972972972972916422 : -Houses, $\begin{array}{c} 61,171\\ 13,059\\ 9,947\\ 7,171\\ 7,034\\ 6,759\\ 1,153\\ 1,153\\ 1,153\end{array}$ 6,672 495,105 7,540 10,090 33,164 9,174 $\begin{array}{c} 15,490\\ 7.731\\ 6,292\\ 6,292\\ 6,072\\ 8,909\\ 5,038\\ 3,395\\ 3,395\\ 2,640\\ 718\\ 718 \end{array}$ 3,185 7,876 107,495 85,399 579,835 772.729 ÷ imployed, a 1----38 11 13 68 Tollwarehold and the state of t 00 01 --Persons fined for insanitary 120 100 333 108 117 6 41 108 the maintary Notices 4,388 96 4 15 425 15 5.794 4,464 180 541 Person-fined for larve. 728 20 27 1 1 1 1 1 1 1 1 1 1 1 56 93 33 33 17 64 214 144 10,146 1.086 1111 1911. 330 Notices against larvae. 36 9,114 9,488 622 36 460 330 480 922 295 325 325 214 3,957 2,630 61,057 ... 48 4,864 Houses where larve were found. 61 61,111 68.605 11 111 : Houses inspected. 466,070 312 67,979 13,606 239 609 498 1,136 2,335 6,883408 3,359 7,259 17,682 212 88,810 2,408 590,373 106,950 43,613 1 nployed, it -20 = 14 00 : : 04 : : · · · -----Soda-water factories. 00 ** : : : : : : : 01 -Persons fined for 'manitary -249 101 13 1⁶⁰ C⁴ 131 Notices . re insanitary 'i 4,610 1,263 113 193 1,263 4,690 140 6,093 Persons fined for 0 larve. o 168 189 11 1-168 14 1910. Notices against larvæ. 1,212 1.392 1.426 18 16 46,646 46,646 Houses where larvæ were found, 47.571 561 561 364 192 1 1 1 1 1 1 1 1 1 1 Houres nspected. 200 476 2,408 1,072 2,884 1,272 237,937 233,181 233,781 ŝ : : 111111 appectors nployed. 35 1 2 1 1 1 1 1 1 1 1 29 5 -------Calabar Bouny Doobo Degema Brass Abalaliki Abalaliki Abalaliki Brass Abalaliki Abalaliki Brass Brass Brass Abalaliki Ikot Reen Douda Obada Logos ... Aro... Risdan I. ... Oshogbo ... Epe ... Badagry ... 111111111111 W. PROVINCE NIGERIA C. PROVINCE E. PROVINCE Warri Forrados Sapelo Ouitsha Benin Asha Ashoh Ashoh Ashor Aska Okwoga Udi.... Idah I.agos x

TABLE V. METEOROLOGICAL RETURNS-1912. Western Province.

			1													
		-33' E.	Rainfall in inches.	0-42	0-13	3-00	7-89	6.34	5.84	6.55	0.92	7-49	4-21	06-0	IIN	43.69 Total
		2JI.	Average Min.	72°-0	72°.0	72°-3	12°-9	72*5	71°.3	71*.4	69°-3	1.01	6.°63	68°-9	919	602
		OLOKEMEJI 25' N. Long.	Average Max.	616	926	666	93°-1	90°-3	87*.1	84°.4	84°.3	\$-°č8	30°-5	93°.8	94°-5	5.°19
		0L0	Absolute Shvde Min.	62°-0	020	64°-0	069	68,-0	68°-0	68°-0	63°-0	0.070	63°-0	64°-0	59°-0	64°-3
		Lat. 7°	Absolute Shade Max.	98°-0	066	103°-0	103°-0	93°-0	91°-0	88°-0	006	95°-0	95°-0	103°-0	98°-0	96°-4
		53' E.	Rainfall in inches.	Nil	liN	1.63	7-25	5-44	4-15	6-81	liN	IIN	1.05	liN	1.53	27.86 Total
			Average Min.	63°-6	64°.4	64°-3	€1°-4	61°.8	58°-8	59°-3	58°-2	58°-7	58°.8	59°-6	61°-3	60°-8
		IBADAN. N. Long.	Average Max.	89°-3	9e96	95°-7	94°-3	768	85°-0	88	85°-2	128	918	85°-8	88°-0	88°-9
1912.		IB ₁ -24' N.	Absolute Shade Min.	++	060	++	57*0	58°-0	++	56°-0	**	++	++	56*.0	56°-0	57°.0
		Lat. 7	Absolute Shade Max.	100°-0	100°-0	101°-0	102°-0	93°-0	$91^{\circ} \cdot 0$	88°-0	89°.0	94°-0	98°-0	89*.0	96°-0	95°-1
RETURNS	PROVINCE.	-50' E.	Rainfall in inches,	0.02	4.30	5.08	8-69	5.80	13-33	9.65	1.05	10-34	5-94	3.37	IIN	67.60 Total
	PROV	00. Long. 4°-1	Average Min.	70°-4	71°.3	2.02	0.01	202	68°-2	72°-7	£.°eð	£69	269	70°-3	68°-7	1.07
NCAJ	WESTERN	IN	Average Max.	98°-2	696	926	616	93°-1	91°.4	81°-5	79°.8	81*-2	85° 3	87°-2	87°-0	7-*68
OLOC	WES	ON 7°-06' N.	Absolute Shade Min.	019	029	67°-0	68°-0	68°-0	63°-0	029	66°-0	019	66°-0	019	64°.0	66°-2
METEOROLOGICAL		Lat. 7°	Absolute Shade Max.	109°-0	100°-0	105°-0	\$107*-0	95°-0	96°-0	100°-0	86°-0	85°-0	89°-0	006	900	096
MEJ		24' E.	Rainfall Absolute in Shudo inches, Max.	0.64	1.87	0-20	3.58	1:21	11-74	7-47	0-23	2.12	3-96	1.15	liN	40-50 Total
		108. Long. 3°!	Average Min.	75°-9	76°-6	811	78°-0	692	117	74°-2	73°-4	73°-9	74°.6	197	₽ .₀₽ <i>L</i>	75°-4
		9	Average Max.	1.°88	88°.8	606	768	88°-6	84°-9	83°.3	928	83°-4	998	1.88	88°-3	87°.0
	1	LA Lat. 6°-27' N.	Absolute Shade Min.	72°-3	5.°17	74°-5	2.07	71°-0	069	71°.0	70.0	011	017	72°-0	002	117
		Lat. 6°	Absolute Shade Shade Min.	0.06	01°-5	93°-5	93°-0	91°-6	£••€8	87°-5	87°.0	86°-0	88°-0	98°-0	90°-3	90°-5
		1		:	:	:	:	:	:	:	:	:	:	:	:	:
			Months.	-	:	:	:	:	:	:		:	:	:	:	:
			Mon	Japuary	February	March	April	May	June	July	August	September	October	November	December	MEANS
[27	793	33]	2 1	Je	F	M	A	M	J	J	A	SQ.	0	A	A I	124

‡ Incorrect records supplied.

METEOROLOGICAL RETURNS-1912. WESTERN PROVINCE.-continued.

	-	-		BA	BADAGRI	SI.				EPE.				OS	OSH0GB0.					OYO.		
			Lat. 6°	Lat. 6°-25' N.		Long. 2"-53' E.	53' E.	Lat. 6°-	-35/	N. Lon	Long. 4°-00' E.	00' E.	Lat. 7°.	-47'	N. Long	Long. 4°-3	-33' E.	Lat. 7°.	-51'	N. Long.	3°	55' E.
Months.	1	V	Absolute AShude Max.	Absolute Shade Min.	Average Max.	Average Average Max. Min.	Rainfall Absolute in Shade inches. Max.		Al-solute Shado Min.	Average Max.	Averaço Min.	Rainfall in in inches.	Absolute Shade Max.	Absolute Shado Min.	Average Max.	Average Min.	Rainfall /	Absolute A Shado Max.	Absolute Shade Min.	Average Max.	Average Min.	Rainfall in inches.
January		:	068	069	86°.4	75°.4	0-28	92°-0	0.°69	9.°68	74°-2	Nil.	026	009	9.°10	67°-8	0-25	096	099	93°-4	012	0-04
February		:	0.06	002	86°-2	74°-4	0.37	0.°6	078	1.00	$L_{2}L_{2}$	0-52	0.46	++	0.°16	61°6	0-20	98°-0	099	cc6	71°.6	2.80
March		:	*	*	*	*	*	93°-0	0.°63	£•.16	70°.6	1-25	93°-0	++	606	009	1-65 3	102°-0	63°-0	95°-8	72°-6	4-31
April		:	*	*	*	*	*	93°-0	0.*69	6.06	$1 \cdot 12$	5.14	92°-0	++	0.016	·60°-8	4-66	95°.0	089	92°-3	72°-3	4-97
May	:	:	0.68	009	85°-2	70°-3	6-21	096	70.0	L-06	1.52	9-14	92°-0	++	Q.,06	Q09	5.10	95°-0	68°-0	93°-1	1.01	3.33
June	:	:	88°-0	68°-0	1	73°-0 13-47	13-47	0.°16	68°-0	86°-3	71°.8	11.38	++	++	++	++	5-13	91°-0	62°-0	85°.8	68°-3	10-35
July	:	:	85°-0	901	81°.3	73°.5	8-30	078	0.07	84°-7	72°-5	18-08	*	*	•		6-60	85°-0	65°-0	82°-0	68°-7	11.7
August	:	:	82°-2	069	80°.7	72°.9	0-51	0.*68	0.°69	82°.9	70°.8	0.45	•	*	•	*	0-75	86°-0	65°.0	81°.3	68°-1	98.0
September -	:	:	82°-2	72°.0	80°.8	73°-6	2.31	006	0.07	82°.5	71°.8	4-84	*	*	•	*	5-28	86°-0	019	83°-1	68°-2	2-02
October	:	:	88°-0	0.°63	g #8	74°-3	1-29	0-*16	70.0	85°-3	72°-0	10.75	*	*	*	*	27-75	016	078	86°-6	69°-3	5-11
November	:	:	88°-0	069	86°-5	73°.3	2-04	92°-0	65°-0	8.º.8	9.°17	3.14	*	*	*		2-28	93°-0	62°-0	2.06	68°-1	1-05
December	:	:	006	66°-0	88°-0	71°.3	10-0	95°-0	65°-0	89°-2	71°-2	IIN	*	*	•	*	Nil	95°-0	58°-0	016	66°-5	0-56
MEANS	:		87°·1†	68°-2†	84°-4†	84°-4† 73°-2† 34-79† Total	34-79† Total	92°0	68°.4	87°.7	71°.8	64-69 Total	±9.°6€	£0°°0	±0.°19	62°·1†	39-65 Total	92°-7‡	\$4°-7‡	89°-2	969	42-51 Total
				* No	record	* No records available.	ble.		† Rec	cords in	Records incomplete.	e.		‡ Inco	Incorrect records supplied	cords su	applied.					

V.-continued. TABLE Western Province.—continued. METEOROLOGICAL RETURNS-1912.

Rainfall in inches. 35-16† Total 1-49 5-60 4.10 5-41 11-29 0.76 -08' N. Long. 4°-14' E. 2-27 4-24 Nil Nil Nil * Average Min. 68°-91 68°-2 66°-8 68°-3 7-.89 9-.01 2.11 2.01 68°-6 68°-8 64°-7 72°-1 * OGBOMOSHO. 90°-8† Average Max. 96.-2 0.66 2-.16 01°-5 82°-5 91°-0 1.06 1..18 £-.18 83°-4 99 * 93° Absolute Shade Min. 64°-1† 62°-0 0-.79 0..19 0..19 0.99 0.99 63°-0 0-.09 0.99 0-.99 * 58 ŝ 96°-1† 105°-0 101*0 0 Absolute Shede Max, 98°-0 95°-0 86°.0 0.16 98°-0 0.16 0-.76 0-.96 Lat. 102°. * 31.72† Total Rainfall in inches. E 01-0 5-98 8.55 4.69 2.12 0-25 3.40 4.50 1.53 Nil IIN Nil 7°-09' N. Long. 3°-21' 11°-6† Average Min. 72°.8 72°-0 6..11 13°-1 67°-3 73°-7 P. 11 70°-3 71°-8 1.027 L. 11 ‡ Incorrect records supplied. ++ ABEOKUTA. \$6-.88 Average Max. 95°-0 0.016 90°-2 90°-3 90°-2 86°-5 82°.6 82°.8 83°-8 92°-5 ę ++ 93° -2+ Absolute Shade Min. 0-.62 68°-0 68°-0 0..11 68°-0 0.01 0-.01 0-.19 68°-0 9 ++ 67° 63° 19 93°.8† Absolute Shade Mar. 0-.96 92°-0 0-.66 0.16 0-.18 0-.16 95°-0 9 9 9 9 Lat. ++ 16 88 97 66 55-73† Total Rainfall in Lat. 7°-37' N. Long. 4°-44' E. 1-22 7-43 2.59 9-26 18.42 1.50 0.24 1-89 16.6 3-27 * * † Records incomplete. Average Min. * * * * * * * * * * * ILESHA. Average Max. 87°-2† 82°-0 86°.6 91°-2 8.28 82°-3 89°.3 90°-4 -18 φ 87°. ٠ 87 Absolute Shade Min. * * * * * ski 庫 \$ * * . * Absolute Shade Max. 0-.06 94°.0 95°-0 93°-0 0.06 0.00 0.06 0-.16 0 -2+ No records available. * 92° * ٠ 92°. Rainfall in inches. 1-48 36-17 Total 2.73 8.42 3-80 ы 0.15 0.05 0.05 5.64 9-34 3-62 0.89 Nil Long. 3°-23' 73°-0 6.89 72°-0 72°.4 Average Min. 75°.2 75°.8 73°-9 6..69 71°-8 10.4 74°.9 71°-3 1.º.17 EBUTE METTA. Average Max. 0.16 92°.4 89°-2 84.4 83°.0 86°-5 88°.6 1..18 93°-1 10 -5 Ģ 83°. 85, 88° 81 6°-29' N. Absolute Shade Min. 73°-0 65°.0 0.29 0.69 68°-0 68°.5 0.01 68°-0 0.01 0.69 10 0-.69 0.11 65° 104°-0 Absolute Shado Max. 5°-59 91°-0 0.16 0.16 92°-5 0-.96 92°-0 86°.0 86°-5 ę Ŷ ŝģ Lat. 86° 92° 89° ÷ : ÷ : ÷ : ÷ : : : ŝ : ÷ 1 : : : : ÷ 1 ÷ : : : ŝ : Months. MEANS : 1 ÷ ÷ : October ... September August November December February January March April June May July

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METEOROLOGICAL RETURNS, 1912.

EASTERN PROVINCE.

				BONNY	2			CA	CALABAR	B.			IKOJ	IKOT EKPENE.	INE.				IKOM		
		Lat.	Lat. 4°-27′ N.		Long. 7°10' E.	10' E.	Lat. 4°.	-58' N.	I. Long.	ıg. 8°—19'	19' E.	Lat. 5°.	°—12' N.	N. Long.	i.	-43' E.	Lat. 5°.	- 57'	N. Lon	00 06	-43' E.
Months.		Absolute Shade Max.	te Abschute Shade Min.	 Average Max. 	Averaço Max. Min.	Rainfall in incises.	Abselute Shade Max.	Absolute Shade Min.	Average Max.	Average Min.	Ra'mfall in inches.	Absolute Shade Max,	Absolute Shade Min.	Average Max.	Average Min.	Rainfall in inches.	Absolute Shade Max,	Absolute Shade Min.	Average Max.	Average Min.	Rainfail in inches.
January		. 93°-0		73°-0 .89°-2	76°-3	4.20	93°-0	002	92°0	71°4	Nil	95°-0	0.09	92°.5	70°-8	1.78	92°.0	64°-4	91*.6	67°-4	0-82
February		. 91°-0	0 68°-0	968 (612	2.75	096	71°-0	94°-6	71°.6	0-23	016	019	91°-2	21°-3	0-66	079	65°-0	916	929	Nil
March		. 93°.0	099 0	I16 (117	4-90	076	71°-0	096	72°-5	3-00	0001	0.09	98 _* .5	299	3.69	93°-6	60°-0	* -₀16	67**8	3.45
April		. 94°-0	0 64°-0	006 (£-₀0L	4-85	076	66°-0	5°°96	72°-5	4-75	100°-0	0.*09	866	1.00	4.58	£.°čę	61°-0	606	919	7.15
May		. 94°-0	0-99 0	1.88 (012	23-45	0.*76	1 ¹ °0	096	73°-4	10-40	1100*0	062	6.°66	59°-8	7.87	g.₀26	64°-0	1.06	70°-0	10.22
June		. 86°-0	0 66°-0	83*.8	229	40.20	076	71°.0	04°·1	6.17	15-90	• ++	++	++	++	10-59	93°-8	68°-0	90°-9	71°.8	9-01
July		. 89°-0	0 67°-0	81°-0	69°-2	31.78	0.°68	$0.^{\circ}17$	6.°48	71°.8	13-60	**	++,	++	++	17-39	£.°0€	002	86°-9	₽ .°17	12-97
August		. 86°-0	0 67°-0	82°-6	£69	16.33	94°•0	009	84°-5	612	12-36	0.°68	0·°76	018	0.903	12.46	0.08	64°-0	178	969	15-93
September		. 87°-0	0 66°-0	82°-5	69°6	23.13	0.*68	**	85°.8	62°-7	15-79	90°-0	0.*66	88*•6	60°-3	23-47	90°-2	001	218	71°-0	13.12
October	:	. 87°-0	0 66°-0	0 83°-0	069	18-94	00°0	++	88°·1	61°-2	9-66	92°.0	0.°93	90°·3	£0.₀.5	12.30	92°.0	69°-4	89°-2	2.02	17.6
November	:	. 87°-0	0 66°-0	82°-8	68°.5	7.88	0+°+9	++	92°.0	++	8-09	0·°16	58°-0	30°·3	0.09	4.00	92°.4	66°-2	89°.4	969	0-54
December	:	. 90°-0	0 65°-0	028 0	911	liN	94°-0	63°-0	89°-4	73°-2	1-32	016	56°-0	∳ .16	58°-7	IN	91°-2	65°-4	0.*68	269	IIN
MEANS	:	. 89°-7	7 66°-6	80-9	68°.8	178-41 Total	93°-9	68°-2†	116	70*-4†	95-10 Total	95°-1†	59°-2†	92*-9†	63°-7†	98-79 Total	92°.8	65°-6	963	69°-5	82°-98
						† Re	† Records in	incomplete.	e.	‡ Inc	orrect n	ecords	‡ Incorrect records supplied	-							

METEOROLOGICAL RETURNS, 1912. EASTERN PROVINCE.—continued.

1.1	Ī					-					-										
			I	BRASS.				D	DEGEMA.	Α.			0	OWERRI	I.				OPOB0.		
Lat. 4°18' N.	Lat. 4°-		-18' 1		Long. 6°14' E.	14' E.	Lat. 4°	4°-45' 1	N. Long.	ng. 6°47'	47' E.	I.at. 5°.	-29' N	V. Long.	-	-03' E.	Lat. 4°-	34'	N. Long.	1	33' F.
Absolute Shade Max.	Absolute Shade Max.		Absoluto Shade Min.	Average Max.	Averago Min.	Averago Rainfall Min. in inchos.	Absolute Shrade Max.	Absoluto Shade Min.	Average Max.	Average Min.	Rainfall in inches.	Absolute Shade Max.	Absolute Shade Min.	Average Max,	Averaço Min.	Rainfall in inches.	Absolute Shade Max.	Absolute Shade Min.	Averago Max.	Average Min.	Rainfall in inches.
93°-0	93°-0	-	71°-0	89°-9	2.097	1-22	92°-0	75°-0	87°-5	79°-4	0.38	95*0	(1)	616	65°-1	0-31	96*0	65°-0	89°-9	1.°269	1-54
97°-0)·• 16	-	73°.0	₽°-16	15°-9	0.74	006	75°-0	85°-9	79°-2	IIN	98°-0	0.09	ç.º.6	68°-5	Nil	98°-0	66°-0	776	73°-6	2-22
94°-0	94°.	0	0.07	91°.8	75°-9	5-95	92°-0	0.°63	84°·1	691	3-35	99° ∙4	099	95°.4	71°.0	7-62	98°-0	929	92°-5	1	12-98
95°-0	95°.	0	012	91°.8	7.*87	9-25	86°-0	0.07	81°.4	74°.0	4-78	98°-0	68°.0	93°-5	612	8.60	98°-0	65°-0	92°.5	197	2-56
92°-0	92°.	0	069	88°-9	74°.7	15-94	96°-0	0.°9	84°.5	697	2-75	93°-0	68°.0	90°·4	$5^{\circ}.11$	9-37	0·°96	66°-0	94°-2	27°-2	8-95
89°-0	. 68	0	001	g., 18	73°-0	29-79	85°-0	65°-0	1.62	1.017	15-90	92°-0	66°.0	85°.8	269	12-79	076	67°-6	90°-3	0.*17	31-32
87°-0	87°	0	0.°63	82*.6	73°-0	32-28	83°-0	65°-0	78°.8	71°-2	10-61	94°-0	68*.0	9	2.07	11-16	096	68°-0	1.06	017	29-58
86°-0	86°	o.	0.01	82°-0	73°-3	9-75	84°-0	069	6.*67	72°.5	6-52	87°.0	0.99	83°.5	₽ .₀69	11-39	016	099	Q.º.68	1.69	20-35
87°-0	87	9	68°-0	83°-0	72°-9	18-73	85°-0	65°-0	1.87	70°.8	14-69	068	099	85*-2	68°.3	11-98	86°.0	68°-0	83°.5	£.°17	16-48
89	89	89°-0	67°-0	85°-7	72°.3	8-37	85°-0	68°-0	80°.3	72°.6	8.40	91°-0	099	88°-0	069	8.53	87°.4	68°-0	86°-0	72°.5	7.38
90	90	006	68°-0	86°-7	13°.1	6-50	026	012	\$€°-4	£.º87	3-97	92°-0	63°-0	88°-2	68°-2	2-71	8.°68	0.°63	87°.3	₽ ₽ <i>L</i>	6-65
91	16	016	019	88°-2	73°.0	2.28	96°-0	062	9.*06	82°.7	liN	93°-0	076	89*.2	64.0	IIN	006	099	£.*88	72°.8	0.80
		1																			
90.	.06	90°-8	£-*60	87°.2		74°-3 140-80 Total	[68	70.00	83*.0	75°-4	71-35 Total	93°•4	65°-0	89°-2	69*-4	84-46 Total	1.*10	66°-8	90*-2	7.527	140-81 Total

METEOROLOGICAL RETURNS-1912. EASTERN PROVINCE.-continued.

		Lat. 5°.	12	2	PO. Long. 7°-	55' E.	Lat. 4	AK Lat. 4°-19' N.	AKASSA. N. Long.	A. ng. 6°-03'	-03' E.	Lat. 5°.	-19'1	OBAN.	°0°	35' E.	Lat. 5°.	-34'	BENDI. N. Long.	1°_	37' E
Months.		Absolute Shade Max.	Absolute Sha te Min.		Average Average Rainfall Max. Min. in inches		Absolute Shude Max.	Absolute Shado Min.	Average Max.	rage in.	Rain fall n inches.	Absolute Shedo Max.	Absolute Shade Min.	Average Average Rainfall Max.	Average	our other data and the second		Absolute Shade Min.	erage lax.	Average Min.	Rait In In
January	:	006	63°-0	92*.0	127	0-30	98°.6	68°-0	82°-9	9·.02	2-60					1.83	93°-0	078	6.°98	169	111
February	:	026	002	93°.8	73°-4	liN	98°.0	069	2 ⋅.16	73°-5	2-67					0.46	98°-0	66°-0	94°-2	269	Nil
March		1100°-0	069	g.,}6	0†!	2-59	95°-0	68°-0	92°-5	74°-5	7.34					6-47	++	64°-0	95°-8	₽ -,12	3.11
April	1	98°-0	20.02	g.,16	\$.°47	5.13	026	71°.0	92°-5	1	5.85					14.08	0.*66	64°-0	96°-0	I69	5-20
May	:	92°-0	069	89°-3	72°-2	3-02	95°-0	0.01	668	73°-3	16-11					22-98	066	64°.0	93°-0	67°-3	6.54
June	:	89°-0	029	84°.8	6.07	8-17	0.°98	62°.0	85°-0	65°-2	24-52					10-45	076	61°-0	88°-7	66°-0	21-11
July	:	87*0	68°-0	83°-3	71°-3	7-57	87*0	69°-0	83°-2	71°-2	26.08	No	temperature records.	sture re	cords.	18-33	0.°98	65°-0	86°-2	68°-1	11-45
August	:	89°.0	069	84*1	₽.º17	7-11	85°.0	64°.0	82°-3	70°-2	16-61					19-66	88°-0	65°-0	1.°68	68°-2	15-79
September		068	68°-0	218	20*•07	10-49	86°-0	65°.0	82°-1	71°-4	25-76					26.63	068	64°.0	86°.4	66°-8	18-56
October	:	$90^{\circ} 0$	0.07	86°.8	71°-8	5.01	88°-0	0.19	I-°48	9.01	14.53					*	94*•0	64°-0	88°-5	66°-8	9-08
November	:	92°0	029	8.°°5	2·•17	2.58	0°°06	65°0	85°.6	2.007	18-31					*	92°.0	65°.0	∳• .68	67°-5	0.44
December	-	92°.0	65°-0	86°.3	₽ .₀01	IIN	92°-0	0.29	86°-5	6.*07	6.92					*	94°-0	65°-0	∳ •.06	68°-6	Nil
MEANS		92".5	68*-0	8.°9	72° 0	51-97 Total	¢.₀16	1.°73	86°-5	71*-4	170-60 Total					120-89 [†] Total	93°-8	64°-5	90°-3	68°-2	92.39 Total

METEOROLOGICAL RETURNS, 1912.

CENTRAL PROVINCE.

3]				FOF	FORCADOS	S.			8.8	SAPELE				BENIN	100	CITY.			01	AHSTINO	1	
			Lat. 5°-	-23' N.		Long. 5°-26' E.	26' E.	LAT. 5°.	-55' N.	I. Long.	g. 5°42′	42' E.	Lat. 6°.	-20' N.		Long. 5°-36' E.	36' E.	Lat. 6°	"-10' N	N. Long.	ig. 6°-47'	47' E.
Mon	Months.	4	bsolute Absolute Shade Shade Max. Min.		Average Max.	Average Min.	Rainfall in inches.	Absolute Shade Max.	Absolute Stude Min.	Average Max.	Average Min.	Rainfall inches.	Absolute Shade Max.	Absolute Stade Min.	Average Max.	Average Min.	Rainfall in inches.	Absolute Shade Max.	Absolute Shade Min.	Average Max.	Average Min.	Rainfall in inches.
January	:	:	0.16	0.29	64°-5	65°-2	2.10	93°-0	63°-0	89°-2	£2	1-07	86°-0	58°-0	6.*58	62°.8	IIN	0:.16	62°-0	88°-6	68°.6	1.77
February	:	:	92°-0	63°-0	7-°68	65°-6	1-90	95°.0	65°.0	92°-2	68*-0	IIN	0.*68	0.09	85°-8	63°-7	1.10	076	66°-0	91°.8	L0L	0-20
March	:	:	94°-0	63°-0	93°-5	68°-3	8.80	0.~76	0.99	92°-5	1.*69	2.18	92*0	58°-0	87°6	64°.4	5 61	0.0011	019	0°76	70*-2	1-65
April	:	:	95° 0	019	91°-2	66°·1	17-60	096	65°-0	82°-5	72°-3	13-58	92*0	56°-0	0.°28	33°·I	14-20	0.001	65°-0	1.*46	1.07	8-28
May	:	:	92°-0	009	1.°08	65°-5	16-20	0.46	62°-0	90°·1	67°.8	9-25	92°.0	60°-0	6.°88	63°-6	8-03	016	0.*90	92°-4	68*-7	4-36
June	:	:	016	63°-0	86°-3	70°-0	17-67	0.°10	64°-0	86°4	66°.8	18.40	0.*68	60°-0	628	63*-9	9-24	93°-0	64°-0	88*.0	68°-0	5.92
July	:	:	0.*68	069	82°.4	71°.6	21.30	88°-0	64°-0	84°-1	66°-1	11-12	068	0.*09	85°-3	63°-2	11-67	0.°28	63°-9	83*0	67°-4	8-67
August	:	:	018	0.°63	81°-9	71°.8	18-98	068	62°-0	84°-0	64°-9	11-14	0.*83	6 0°-0	84°-5	63*-0	3-98	95°-0	65°.0	84°.8	019	9-55
September	:	:	016	0.*10	83°-5	71°.6	20.79	0.°68	63°-0	0-°č8	65°-3	15-98	87*.0	0·∘09	82°.1	63°.3	13-57	0.*76	66°-0	÷68	1.69	13-35.
October	:	:	0.40	069	84°.8	72°-7	27-00	92°-0	63°-0	8.08	65°-0	11.18	88°-0	009	82°.8	64°.0	7.07	94°-0	0.117	6·.06	73°-0	7-23
November	:	:	068	61°-0	87°.0	71°.8	14.14	93°-0	009	88°-6	65°-0	2-80	88*0	0.*09	85°.6	63°-7	3.73	95°-0	71°.0	92°-0	74°-0	74-0
December	:	:	95°-0	63°.0	87°-3	70°-9	3.78	92°•0	069	87°.4	63°-4	IIN	87°.0	009	83°-3	62*4	IIN	96°-0	0.99	92° 8	72°-1	liN
MEANS	:	:	91°-6	63°-1	87°-6	69°-2	69*-2 170-26 Total	92°.4	63°-0	87°-4	299	96.70 Total	068	59°-3	85°-6	63°-4	78-26 Total	95°-3	66°-0	96°-2	669	61-45 Total

[279333]

METEOROLOGICAL RETURNS, 1912. CENTRAL PROVINCE-continued.

| Average Average Rainfall
Max. Min. inches. | 65°-8 1-85 | EN 1-*69
 | 3-04 | 6-38 | 3-75 | 10-53
 | 11-1
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 | 8-25 | 4.81 | 1-23 | IIN
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Total. |
| Average
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 | 63°-4 | 62°.1 | 68°-2 | 969
 | 70°-4
 | 002
 | 7.07 | L.29 | 299 | 61°-3
 | 0·•79 |
| | 94°.7 | 90°-8
 | 85°-3 | 1.028 | 118 | 85°.4
 | £.⁴8
 | 2.°±8
 | 85°.0 | 88°.3 | 90°-2 | 91°.8
 | 81°-8 |
| Absolute
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 | 59°-0 | 58°-0 | 0-°eč | 64°-0
 | 64°-0
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 | 029 | 019 | 61°-0 | 099
 | 65°-7 |
| | 98°-0 | 98°-0
 | 96°-0 | 98°-0 | 95°-0 | 89*.0
 | 068
 | 018
 | 89°-0 | 0.°10 | 93°0 | 0.°69
 | 93°-1 |
| | 0-19 | IIN
 | 2.81 | 5-56 | 6-43 | 5-15
 | 5-40
 | 5-13
 | 15-50 | 10-97 | 1.58 | Nil
 | 58-72
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| | ₽-₀ ₹ <i>L</i> | ₽ ., ₽ <i>L</i>
 | 9-°±7 | 73°-8 | 73°-0 | 602
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 | 019 | 70°-4 | 2.11 | 74°-2
 | 612 |
| | 618 | 1.98
 | 88°-2 | 85°.0 | 83°-4 | 962
 | 78°-1
 | 26°.8
 | 911 | 162 | 84°-2 | 118
 | 82°-3 |
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METEOROLOGICAL RETURNS, 1912. CENTRAL PROVINCE-continued.

	Rainfall in inches.													Total
	Average Min.													
	Average Max.													
	Absolute Elade Min.													
	Absolute Shade Max.													
	Rainfall in inches.													Total
	Average Min.													-
	Merage Max.													
	Min.										,			
	Absolute Absolute Average Average Shade Shade Max. Max.													
	Rainfall A in inches.											-		Total
	Average B									•			-	
	Max.													
	Absolute Shade Min.											_		
	Absolute A Shade F Max,												-+	
55 E	Rainfall A in inches.	2.36	IIN	2.10	6.37	5-93	66-2	9.16	8.88	17-37	6-15	1-04	IIN	67.35 Total
ASABA. Lat. 6°-12' N. Long. 6°-42' E.	Average B Min.	8.°8	68°-3	70°-8	70°-3	69°-5	67°-8	g19	019	66°-4 1	₽~. L9	g., 19	65°-6	629
ASABA. N. Lon	Average A	906	92°-2	92°-5	94°-0	92°-3	87°-3	83°•1	84°.8	85°-4	88°-0	168	89°-5	168
A5 -12' N	Absolute Shade Min.	60.09	61* 0	66°-0	65°-0	099	65°-0	63°-0 8	65° 0 8	61°-0	65°-0	0.19	28°-0	63°-2
Lat. 6°-	Absolute A Shade E Max. 1	93°-0	9.0.26	1100*-0 6	9 0 .66	98°-0	92°-0 6	89°-0	88°-0	89°-0	92°-0	92°-0	93°-0 5	93°.3 6
	ž8"		6	110								6		6
	4	:	:	:	:		:	:	:	:	:	:	:	:
	Months.	January	February	March	April	May	June	July	August	September	October	November	December	MEANS

[2793:

TABLE

RETURN OF DISEASES AND DEATHS (IN-PATIENTS)

					1			GIN			L AT				YEAR	LY	TOT	L.		
							THE	END	OF 1	911.					AD	001880	ons.			
DISEAS	ES.			and and a	Lagos.	Lagos Prison.	Ibadan.	Badagry.	Epe.	Yaha.	Jebba.	TOTAL.	Làgos.	Lagos Prison.	Ibadan.	Thellogry.	Epe.	Yaha.	Jebha.	TOTAL.
INFECTIVE DISEASES :																				
Beri-Beri Cerebro-Spinal Fever					2		***		***	***	***	2	7	***					***	7
Chicken-Pox			- 00				1					1	82		1					83
Cholera Dengue													***	***			***			***
Diphtheria																	***			
Dysentery Endocarditis-infectiv	e				2						***	22	45	16	2		1	***	24	66
Enteric													···-2							2
Erysipelas Gonorrhœa	•••			•••			1	***	***	•••		ï		2					ĩ	
Influenza									***	***							ĩ			- 1
Kala Azar Leprosy (a) Nodular						***					***							2	***	
(b) Anzestheti										14		14	1	**				15		15
Malaria-																				
(a) Tertian (b) Quartan	***			***	***	***		***												***
(c) Aest-Aut					1	1						2	230	15	35		2			286
(d) Chronic (e) Black-wr	ter E	ever			1				***			1			1					1 6
Measles								***												
Malta Fever Plague			***												***			***	***	
Pneumonia					ï	***						1	25		6					34
Rabies														***					***	
Relapsing Fever Rheumatic Fever						***		***					- 32		1			4.0.0		33
Septiezemia													13							13
Trypanosomiasis Small Pox				•••		***		•••					9							10
Syphilis (a) Primary		***																		
(b) Secondar (c) Inherited						***			***		***	***	1 2						***	$\frac{1}{2}$
Tetanus					***								22		1					25 28
Tuberculosis													26		2				***	28
Whooping Cough Yaws						***														
Yellow-Fever										***										2
Other Diseases INTOXICATIONS :			•••			***				***			1	***	1				•••	2
Alcoholism													6							6
Morphinism Others		***		***	***	***				***		***		***					***	6
GENERAL DISEASES ;					***	***								***				***		
Anæmia Anæmia Pernicious			***	***	1					***		1	8		4					12
Diabetes														***						
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Leucocythæmia Hodgkin's Disease									**	***				***				***		***
Myxodema																				
Purpura Rickets	***			***								***	***	***	***				***	
Scurvy					***			***				***								***
Rheumatism, Chronic Other Diseases				***	***				•••	***			3	7					***	10
LOCAL DISEASES :															-					
Diseases of the Nervous S Sub-section 1.	ystem														1					
Neuritis													1		3					6
Men ngitis	***							***											442	1
Myelitis Hydrocephalus		***		***					***		***							- 22		
Encephalitis															4.00					***
Abscess of Brain Congestion of Brain	***												15		***			-++	1	$\frac{1}{6}$
Other Diseases				***									2							2
Sub-section 2. Apoplexy					in the second		300		1.00			3	8	1	1					11
Paralysis					1		***	***			***	1	5		2			148		7
Chorea		***								***			2	***					***	5
Epilepsy Neuralgia													ĩ	2	i			***	***	4
Hysteria		•••				***	***		***				2							····2
Other Diseases Mental Diseases- Sub-section 3.	***				•••	***	••••						2	***	***			***	***	
Idiocy					1					3		4	2					1		3
Mania Melancholia				***						83	***	83		***				4	***	4
Dementia								***		10	***	10	 		1			4		5
Delusional Insanity				***						6		6	3		2			7		12
	Car	ried for	rward		10	1	2			47		60	594	43	73			33	11	763
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VI. FOR THE YEAR 1912. WESTERN PROVINCE.

Т

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			DE	ATHS	•				10	OTAL CI	LSES	TREA	TED,						END	OF 1	1912,		
Lagos.	Lagos Prison.	Ibadan.	Badagry.	Epe.	Yaba.	Jebha.	TOTAL.	Lagos.	Lagos Prison.	Ibadan.	Badagry.	Epe.	Yaba.	Jebba.	TOTAL.	Lagos.	Lagos Prison.	Ibadan.	Badagry.	Epe.	Yaba.	Jebha.	TOTAL.
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						1		THE	END	or 1	911.					AD	MI881	ons.			
	DISEA	SES.				Lagos.	Lagos Prison.	Ibadan.	Badagry.		Yaba.	Jebba.	TOTAL	Lagos.	Lagos Prison.	Ihadan.	Badagry.	o.	Yaba.	Jebba.	TOTAL.
				-		Lag	Iag	Iba	Bac	Epe.	Yal	Jek	TO	Ing	Iag	Iha	Ba	Epe.	Ya	Jeb	TO
		Bro	ught fo	orward		10	1	2			47.	***	60	594	43	73	4	5	33	11	763
	DISEASES-continued. mases of the Eye-														E Is						
	Conjunctivitis Keratitis			***	***	1		1			***	***	1	12	1	7	1		***	***	21
	Ulceration of Corner	b 444	***								***			3	2						
	Iritis Optic Neuritis			***		111			***		444			1				***	***	***	
	Cataract Other Diseases				***	1					***.		1	6					***		
Dise	cases of the Ear-													5							
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	Pericarditis Endocarditis			***								***		***		1					
	Valvular Mitral															6				ï	6
	Aortie Trieuspid	***	213 212	***	***	2	***			***	***.	***	2			***			***		
	Pulmonary Arterial Scierosis										***.			2							
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Disc	Other Diseases cases of the Respirat	ary Sys	stem-				***	-		***	***	***		8		2		***	+11	***	1
	Laryngitis Bronchitis			317			ĩ	1		***			2	5 36	24				***	***	6
	Broncho-pneumonia												111	1		111	ï			1	
	Abscess of Lung Gangrene of Lung			***					***												
	Emphysema Pleurisy			***				***			***					ii	1	***		***	
	Asthma				***													1		***	1
	Empyema Other Diseases		***	***				***						***			1.00			***	
	sases of the Digestive Stomatitis		m—											1							1
	Caries of Teeth								141					8			100				
	Glossitis Sore Throat						***	***	1.1.1						***		***			***	
	Inflammation of Ton Gastritis	sils		***				***								38	***				4
	Ulceration of Stomac	h	***	***			***	+++	***					1	+ 1 +	***					
	Dilation of Stomach			***		1013	111	+++			***		***			***				***	
	Stricture of Stomach Dyspepsia						***	***						2	***		***			***	
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	Pancreatitis Hepatitis—Acute			***			***									1					***
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	Cirrhosis Jaundice		***	***			***	***				***	***	···- ₁						• • •	
	Peritonitis											***	1	1	***	1		***		1	
	Other Diseases			***	***	***	1	111	1.1.4 1.1.4								***			***	
Dise	ases of the Lymphat Splenitis	ic Syst	em-											3							
	Inflammation of Lyn Suppuration of Lym			***	***	2	***		***				2	46	2	3				1	5
	Lymphangitis					***			-111							***	111	1			
Disc	Elephantiasis mases of Urinary Syst	em-	***				***	***	***				***	2	***				***	***	
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	Chyluria									***		***					***				1
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				orward		20	5	4			47		76	995	108	148	13	14	33	16	1,32

TABLE VI .- RETURN OF DISEASES AND DEATHS (IN-PATIENTS

OR THE YEAR 1912 .- WESTERN PROVINCE-continued.

1 1 <th> cr Dadan.</th> <th>2 1</th> <th>i i i i i 9 Yaba.</th> <th>i i ca Jebba.</th> <th>E TOTAL.</th> <th>Lagoe.</th> <th>t Lagos Prison.</th> <th>Ipadan.</th> <th>Badagry.</th> <th>Epe.</th> <th>Yaba.</th> <th>19</th> <th>NL.</th> <th></th> <th>Lagos Prison.</th> <th></th> <th></th> <th>OF 1</th> <th></th> <th></th> <th></th>	cr Dadan.	2 1	i i i i i 9 Yaba.	i i ca Jebba.	E TOTAL.	Lagoe.	t Lagos Prison.	Ipadan.	Badagry.	Epe.	Yaba.	19	NL.		Lagos Prison.			OF 1			
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101 13 12 5	2 		2 6	4	143	1,015	113	152	13	14	80	16	1,403	32	4	5			65		106

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TABLE VI .- RETURN OF DISEASES AND DEATHS (IN-PATIENT

							REM.		G IN END			AL AT	r			YEAR	MISS			-	_
TH	SEASE	s				_				_			_		1	AD	1	IONS.	-		_
Di	SLASE	. ·				Lagos.	Lagos Prison.	Ibadan.	Badagry.	Epe.	Yaba.	Jebba.	TOTAL.	Lagos.	Lagos Prison.	Ibadan.	Badagry.	Epe.	Yaba.	Jobba.	TOTAL.
OCAL DISEASES—conti Diseases of the Gen	nued.	Brough		orward		20	5	4			47		76	995	108	148	13	14	33	16	1,33
Male Organs : Urethritis														3							
Gleet Stricture														···· 27	2			***	***	***	
Prostatitis																		***	***		
Soft Chancre Condyloma					***	***	***	***	***	***	***	***	***		1	***			***	***	
Inflammation of Hydrocele	the Sc	rotum			***	2					***		2				1	·	***	***	
Orchitis	***		***	***		1			***				1	10	444	7		î	***	***	
Epididymitis Abscess of Test	icle										***	***	***	4		***		***	***	***	
Other Diseases Female Organs :-					••••	•••		••••						15					•••		-
Ovaritis	***													2							
Ovarian Cyst Endometritis		***			***		***	***	***	***		***	***	$\frac{1}{4}$			***	***	***	***	
Displacement o Vaginitis	Uterus	· · · · ·						***			1		1	52				***	***		
Amenorrheea																					
Dysmenorrhœa Menorrhagia	***							***			***					1		***	111	***	
Abortion		•••		•••	***				***	***						***		***		***	
Delayed Labour																ï	1	***			
Postpartem Hae Retained Places	ita	çe 									***	***	***			2		***		***	
Premature Birt Puerperal Septi			***				***						***								
Mastitis								***		***						***		***		***	
Abscess of Brea Other Diseases	st	***	***		***									····2		1		***			-
Diseases of Organs	of Locon	notion :																			1
Osteitis Arthritis			***		***	***		***	***		***		***	14 30		iï	***				
Spondylitis Bursitis		***	***	***		***						***		3 4		2		· 1			
Other Diseases	***																	î			
Diseases of Connect Cellulitis	ive Tiss	ue												45	9	19		2			1
Abscess Elephantiasis	***	***	***			3		1	***				4	61		25		***		***	1
Other Diseases	***													3	ï						-
Diseases of Skin- Urticaria																					
Eczema														8			***				
Boil Carbuncle	***					***								4	4						
Herpes Psoriasis	- 117					***			***		***		***	1					***		
Oriential Sore			***																		
Tinea Scabies						***							***			1					
Acne Prickly Heat		***			***					***				***	***						
Ulcers														62		36		1			
Other Diseases Injuries—General						***								···_1	13		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	7		2	-
Local						6		2	1	1			10	167		75	11	12	***	7	91 33
Surgical Operations Tumours	***			***		***							***	353 29		2	3	ï		***	
Malformations Poisons														1		ï				***	
Parasites-Animal										***											
Protos Trema	toda (Fl	ukes)	***							***		***	***	***					***		
Cestoda	Solium													1							
Tænia	Saginat			***				***					***	*			***		***	***	
Nemato														1	1						
Tricoe	ephalus		r	~~	***					••				***					***		
	nculus		***		***	***	***	***		***	***	***		43		7	***			***	1
Filari Strong								~ï					2				1			***	1.
Ankyl	ostomia			***												20		ï		***	
Oxyur	18	•••	***	***	***	***	•••		***	***		***	***					***	***	***	
Insecta- Myias																					
	Disease	s							***	***		***		3							
To	TAL (exc	cluding	Ope	erations)		32	5	8	1	2	48		96	1,928	139	379	33	42	33	25	2,5
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FOR THE YEAR 1912. WESTERN PROVINCE.-continued.

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	Lagos.	Lagos Prison.	Ibadan.	Badagry.	Epe.	Yaha.	Jebba.	TOTAL.	Lagos.	Lagos Prison.	Ibadan.	Badagry.	Epe.	Yaba.	Jebha.	TOTAL.	Lagos.	Lagos Prison.	Ibadan.	Badagry.	Epe.	Yaba.	Jebba.	TOTAL
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TABLE

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				REM.	AININ	G IN		8PITA 911.	L AT	т тил	E ENI	D OF			_	_	Y	EAR	LY	TOT	FAL.			
													_			_		AD	MISS	IONS.				
DISEASES.							à.											2.						
			Warri.	Forcados.	Asaba.	Sapele.	Benin City.	Aboh.	Agbor.	Udi.	Okwoga.	Onitsha.	TOTAL.	Warri.	Forcados.	Asaba.	Sapele.	Benin City.	Aboh.	Agbor.	Udi.	Okwoga.	Ouitsha.	TOTAL
INFECTIVE DISEASES :			-											8										
Beri-Beri Cerebro-Spinal Fever Chicken-Pox			 26		***							 25	51	31			116	108		***		***		8 417
Cholera												***									•••	***		
Dengue Diphtheria			***		***	***				***												***		
Dysentry Endocarditis-Infectiv				1		***			***	***	1 4 4	***	1	38	18	8	48	12	8	4	6	1	60	203
Enterie				***		***					***		***				***				***	***		
Gonorrheea					***	***				***		1	1	11	3	ï	ï		2	4		***	23	45
Influenza Kala Azar				***	***	***		***	***	***	***			***			***	***		111	***	***	***	
Leprosy (a) Nodular (b) Anæsthetic						***																	12 37	12 40
Malaria (a) Tertian					***																			
(b) Quartan (c) Aestivo-au	***		***	***	1		***	***	***			ӕ	<u>98</u>	23	***	26	$\ddot{12}$	2 6	37	~~~2	2	118	2 324	
(d) Chronic M (e) Black-wate			***		***	***		***	***				···· 4	8	***	···· 1						2	10 24	
Measles						***				***				2							***			
Malta Fever Plague		***	***			***	•••			***	***										***		***	
Pneumonia Rabies			***	***			***		***	***	***			14	9	4	6	3	3	1		1	15	56
Relapsing Fever															::3									
Rheumatic Fever Septicemia						***					***			1	0 22	***	1	- 11		***	***	ï	***	45
Trypanosomiasis (Slee Small-Pox	ping Siel	kness)			***		1				***		1	***	12		1		·					113
Syphilis (a) Primary																								
(b) Secondary (c) Inherited							***			***	***	***	***		***		***			***	***	***	***	
Tetanus				***		***		***		***	***	1	1	7			1 2	1		1		***		2 18
Whooping Cough				***							+++	***						-						
Yaws Yellow Fever				***	***	***				***	***		***	1	***	***		***	1			***	6	
Other Diseases INTOXICATIONS :				***	***	***	***	***	***	111	***		***	1		***		100				***		1
Alcholism				***				+++							***							***		
Other Diseases					***									2				***					***	- 2
GENERAL DISEASES :														3			1	1		1			5	11
Anzemia-Pernicious Diabetes								1.1.1											***				-	
Exophthalmic Goitre.		***				***	2.83 3.84		***	***	111	4.4.4					111	***						
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Myelitis																+ * *	***			***		+12		
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Carried	d	26	1		2	1					27	57	249	95	18	213	137	25	56	9	5	440	1,247	

VI.-continued.

FOR THE YEAR 1912. CENTRAL PROVINCE.

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Warri.	Foreados.	Asaba.	Sapele.	Benin City.	Aboh.	Agbor.	Udi.	Okwoga.	Onitsha.	TOTAL	Warri.	Foreados.	Asaba.	Sapele.	Benin City.	Aboh.	Agbor.	Udi.	Okwoga.	Onitsha.	TOTAL.	Warri.	Forcados.	Asaba.	Sapele.	Benin City.	Aboh.	Udi.	Okwoga.	Onitsha.	TOTAL.
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DISEASES.	Warri.	Foreados.	Asaba.	Sapele.	Benin City.	Aboh.	Agbor.	Udi.	Okwoga.	Onitsha.	TOTAL.	Warri.	Foreados.	Asaba.	Sapele.	Berin City.	Aboh.	Agbor.	Udi.	Okwoga.	Onitaha.	TOTAL
Brought forward	26	1		2	1					27	57	249	95	18	213	137	25	£6	9	5	440	1,247
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TABLE VI .- RETURN OF DISEASES AND DEATHS (IN-PATIENTS)

	101
AL	PROVINCE—continued.

OR THE YEAR 1912. CENTRAL

YEARLY TOTAL.

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TABLE VI .- RETURN OF DISEASES AND DEATHS (IN-PATIEN

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	DISEASES.	Warri.	Foreados.	Asaba.	Sapele.	Benin City.	Aboh.	Aghor.	Udi.	Okwoga.	Onitsha.	TOTAL.	Warri.	Foreados.	Asaba.	Sapele.	Benin City.	Aboh.	Agbor.	Udi.	Okwoga.	Onitaha.
Discuss of the Generative System : The second secon	Brought forward	26	3		2	1		1			27	60	453	140	32	306	198	37	134	37	12	712
Urethristic	Diseases of the Generative System :-																					
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Other Diseases	A house of Marchards												2			10000		0.000	10000			3
Outring In In <t< td=""><td>Other Diseases</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>3</td><td></td><td></td><td>1.000</td><td></td><td>10000</td><td></td><td>1000</td><td>10000</td><td></td></t<>	Other Diseases												3			1.000		10000		1000	10000	
Belonsetriis	Ovaritis			***				***			***											146
Displacements of Uterus Image: Construction Image: Construction </td <td>17. J</td> <td></td> <td>1.000</td> <td></td> <td>10000</td> <td>10000</td> <td>1000</td> <td>0.000</td> <td></td>	17. J															1.000		10000	10000	1000	0.000	
Answorthes Image: Splace of Leburg Image: Splace of Leburg <td>Displacement of Uterus</td> <td></td> <td>1.000</td> <td></td> <td>1.000</td> <td></td> <td></td> <td>100000</td> <td></td>	Displacement of Uterus															1.000		1.000			100000	
Descentions Image: second	A second s												10.00							10000	10000	
Aborthon	Dysmenorrhæa						10.000	10000								10000		100000	10000	1000	0.000	
Abortion Image: Construct of the c	Terranewalkers								***			4.04	1.000						1.000	10000		
Delayed Labour		10000					1000												10000		10.000	
Betained Placents	The stress of some TT some some has not		-				1000											100000	1.000	0.000	100000	2
Premature Birth							10000											10000		1000	10.000	***
Masting	Premature Birth						100000	10000								1000			1000	1000	0.000	
Absess of Breast		10 C C C C											10000			10000	1000	1000	10000	1000	10000	
Disease of the Organs of Locomotion Arthritis Image: Market Mark	Abscess of Breast						10000					1.000				10000		10000	10.000	1000	100000	
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Other Diseases		1000 C				1			***		***		12		3			6	1	1000		51
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THE YEAR	1912.	CENTRAL	PROVINCEcontinued.

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Forcados.	Asaba.	Sapele.	Benin City.	Aboh.	Agbor.	Udi.	Okwoga.	Onitsha.	TOTAL.	Warri.	Forcados.	Asaba.	Sapele.	Benin City.	Aboh.	Agbor.	Udi.	Okwoga.	Onitsha.	TOTAL.	Warri.	Forcados.	Asaba.	Sapele.	Benin City.	Aboh.	Agbor.	Udi.	Onitsha.	TOTAL.
17	2	33	5	5	4	7	6	23	123	479	143	32	308	199	37	135	37	12	739	2,121	18	3	1	5	1	2		1	59	90
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RETURN OF DISEASES AND DEATHS (IN-PATIEN

	Remaining in Hospital at end of 1911.									P						Y	EAR	LY	TOT	CAL	-							
							1	911	-												AD	MISS	sions					
DISEASES.	1111111	Afskpo.	Bende.	Bonny.	Brass-Akassa.	Calabar.	Degema.	Ikom-Obubra.	Obudu.	Ogoja.	Okigwi.	Opobo.	Owerri.	TOTAL.	Abakaliki.	Afikpo.	Bende.	Bonny.	Brass-Akassa.	Calabar.	Degema.	Ikom-Obabra.	Ikot Ekpene.	Obudu.	Ogoja.	Okigwi.	Opobo.	Owerri.
INFROTIVE DISEASES :	1			ľ		n		1																		1		
Cerebro-Spinal Fever																1	***	***	6	1	2	***			***	-		-
Chicken-Pox Cholera	-					11			9.					20	2	7	2	12	***	414	1	17	33		***			
- Dengue																									111			
Diphtheria Dysentery								***								16		2	1	69	7	2	45		***	···- 6	3	
Endocarditis-Infective																			***	***	***		***	***	***			
Enteric Erysipelas			1	1.	1														***		***		***	***	***			
Gonorrhoa										** **	1			1	6	1	2	0	1	22 22	***			***	6	4	6	
Kala Azar														-										10.0	***			
(b) Anæsthetic	•			1		1				1					-						1		1					
Malaria (a) Tertian										** **									2		111			***	***			
(č) Quartan (c) Aestivo-autumnal					i .	4					1.		3	- 5		3	27	25		241	20	6	17	1	348	7	13	13
(d) Chronic Malaria	-				-														1	1	***			m			***	
Menales		* * * *		-														- 1.1.1		4	***							
Malta Fever Plague		***		-		1				1-													***		***			
Pneumonia	•					. 1								1	1			104		50	3	1. 3		100.00	5	10000	3	
Relapsing Fever																					***							****
Rheumatic Fever Septicæmia	-		-		:			1									17			19 4	3		***		10000000		***	
Trypanosomiasis				-																			3		***			
Small-Pox Syphilis (a) Primary	-						1.	1			21			4.01				1			3		1				1	
(b) Secondary																2				34	***						4	
(c) Inherited (d) Tertiary							12	1											ï		***							
Tetanus Tuberculosis								ł						+++				1	2	 13			3			-		
Whooping Cough														***									1	144	1	444	4.83	
Yaws							1	1T		-		1				1		***		***	***						***	***
Other Diseases		1.1.1.						ļ							14.0		***									13		
Alcoholism								ļ.,												4	***		-					
Morphinism Other Diseases	1						1	î.					i:	***						***								
GENERAL DISEASES :																	1			12			100					
Anæmia Pernicious							Į.,											1		1			3					
Exophthalmic Goitre							S										1.00				***							
Gout							100	Ş.,															***		1.1.1.1.1.1.1			1.01
Leucocythæmis Hodgkin's Disease																	111			1		***			100000000			
Myxodema												4	- 2.0							+++					4.8.0	111		
Rickets				4	1.			1												2	***	***				***		111
Chronic Rheumatism																1	16	10	3	78	···· 6			1	***			
Other Diseases		iii .															15		***	26				- 111	10000	***		
Diseases of the Nervous System :																												
Neuritis															10000					3			1					
Meningitis Myelitis				1	1			1										1		5				***				
Hydrocephalus	-																			***						***		
Abscess of Brain																								***	1000	-444		
Congestion of Brain Other Diseases	÷.																			1							***	
Sub-section 2:				1			Ľ																					
Apoplexy Paralysis														***				i				***		1	***		1	
Chorea Epilepsy														***					***				· · · ·		***			**
Neuralgia									1.4.4		1. 11		14.1	***	3		S	1		6		1	6			-		
Hysteria Other Discases															1		109			1	1	***			- 1			
Mental Diseases					I																							
Idiocy																							1					
Mania Melancholia				-		. 3	1	e las			4. 6	4 1.44		14						5					***	***		
Dementia						. 2	2							040			2		**	04.04	***				-		***	10
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Carried forward				-	1	. 31	1	9	9		3	1	3	57	24	30	18	03	25	1,042	49	30	121	1	375	53	32	-

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NUMBER OF THE OWNER

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OR THE YEAR 1912. EASTERN PROVINCE.

YEARLY TOTAL.	The second second second second	REMAINING IN HOSPITAL AT THE END
DEATHS.	TOTAL CASES TREATED.	of 1912.
Alikpo. Bende. Bende. Brass-Akassa. Calabar. Degena. Rom Obubra. Ikor Ekpene. Obudu. Obudu. Obidu. Obido. Overri.	Abakaliki, Afikpo. Bende, Benny, Brass-Akassa, Calahar, Calahar, Degema, Ikon-Obuhra, Ikot Ekpene, Obudu, Obudu, Opobo, Opobo, Owerri, TOTAL,	Abakaliki. Afikpo. Boundo. Boundo. Boundo. Brass-Akasea. Calahar. Degena. Ikon Obuha. Obudu. Obudu. Obudu. Obudo. Opolo. Owerri. TOTAI.
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100	

TABLE VI .- RETURN OF DISEASES AND DEATHS (IN-PATIENTS)

	I	EM.	AIN	ING	IN	но	SPI	TAI		T ENI	0 01	,						Y	EAF	LY	TO	CAL					
						191	11.												AD	MISS	SIONS	L.					
DISEASES.	Abakaliki.	Afikpo.	Bende.	Brass-Akasso.	Calabar.	Ikom Obubra.	Ikot Ekpene.	Obudu.	Ogoja.	Okigwi. Opobo.	Owerrh.	TOTAL	Abakaliki.	Afikpo.	Bende.	Bonny.	Brass-Akassa.	Calabar.	Degema.	Ikom-Obubra.	Ikot Ekpene.	Obudu.	Ogoja.	Okigwi.	Opebo.	Owerri.	TOTAL.
Brought forward				1	37	2	. 9		3	1 1	3	57	24	35	78	53	25	1,042	49	30	121	7	375	53	32	52	1,856
Diseases of the Eye : Conjuctivitis Keratitis	1											1		1	5	-4	***	13 4			2		3	4	1	21	3(1(
Ulceration of Cornea Iritis Optic Neuritis																1	•••	2 1 2				***			12		A 84 P
Cataract											1	1		***	2			2 2 2 1						1	2	15 2	2:
Diseases of the Ear : Inflammation																	1	5								-10	2
Other Diseases Diseases of the Nose Diseases of the Circulatory System :													***	***			++++	1		14.1	1		***		•••		N N N
Pericarditis																		1		1							* 5
Valvular Mitral Aortic Tricuspid												2		4	1	1		25 1		1		1	6		6 	13	K 1
Pulmonary Arterial Selerosis									***								***				1	***					1
Aneurism Diseases of the Respiratory System :			100												1											***	1
Laryngitis Bronchitis Broncho-Pneumonia			1			2.						21	11 1		14	1400		48	7		12	21	04.04	3	1	4	97 13
Abscess of Lung Gangrene of Lung															***			1						***			1
Emphysema Pleurisy Empyema		1							***			ï		ï	····2	1000	***	5	3		····4	ï	***	1	***	•••	Ĩ17 1
Other Diseases																ï		4									6
Diseases of the Digestive System :													1												1		2
Caries of Teeth Glossitis Sore Throat																***	***	3				***		***			3
Inflammation of Tonsils Gastritis					1		1	-				·	12			4		4 12				***				1	e 40
Ulceration of Stomach Humatemesis Dilatation of Stomach									***				***					1		***		***		1			2
Stricture of Stomach Dyspepsia		-											***			2		 10	***		***				***		1.000
Enteritis Appendicitis														***	1	***	1 85			2				2			10
Colitis	-								***				***	***		2		31		***	•••				***		1
Sprue Hernia Diarrheea		in.			1							:0101	: : : : : : :	:04 00	 57	 5 12	14	39 129			 30			 17		17 36	8 34:
Constipation	4.40	(111)											3		3	 6		30 37	1					1	1	1	84
Hæmorrhoids Pancreatitis Hepatitis—Acute		in a	· · · i ·		in			4.8.8					***			1		6 9		***	••••	••••	***				il i
Abscess									1.11									6					***	1		i	
Jaundice Peritonitis															···· ₁			1		***				***	1	***	
Ascites					1.00						8346							21 24 -						***			111
Diseases of the Lymphatic System :													: 2					7			3						10
Splenitis Inflammation of the Lymphatic Gland Suppuration of the Lymphatic Gland Lymphangitis	1 100							1000	4.4.4			4			4			59 29	3		1	1	····1			3 6	84.
Elephantiasis																	:2	5	1				2	***			10
Diseases of the Urinary System :																		4								2	:
Bright's Disease Prelitis Calculus																1											
Rensl Colie Cystisis												1								***		***					
Vesical Calculus Suppression			** **																	***							
Hæmatoria Chyluria			-					1.00]				1									***		
Carried forward	1		3 :	2	45	4	9		3	2 2	4 3	75	50	54	178	115	45	1,554	113	42	175	15	405	105	64	182 1	1,97

YEARLY TOTAL	Total Cases theated.	Remaining in Hospital at end of 1912.
DEATHS.		
Abakaliki. Afikpo. Bende. Bende. Bende. Braae. Akasan. Calabar. Degema. Degema. Ikot Ekpene. Obudu. Obudu. Opobo. Opobo. Opobo. Opobo.	Abskaliki. Afikpo. Bende. Bouny. Brasst-Akassa. Calabar. Calabar. Degema. Ikom-Obubra. Ikot Ekpone. Obudu. Obudu. Obudu. Opobo. Opobo. Opobo. TOTAI.	Abakaliki. Afikpo. Bende. Bende. Bomy. Bras. Akassa. Calabar. Degena. Degena. Degena. Obudu. Obudu. Ogoja. Oyebo. Overri.
113 5 2 1 78 2 122 2 4 1 5 6 143	24 36 77 53 25 1,060 51 30 130 7 378 54 29 59 2,013	2 7 6 241 3 1 2 3 2 66
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216 18 4 3 123 8 5 28 3 4 2 7 19 242		2 2 8 7 1 255 2 6 2 7 4 2 9104
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FOR THE YEAR 1912. EASTERN PROVINCE-continued.

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							1	911.												AD	MIS	SION	8.					
DISEASES.		Abakaliki.	Afikpe.	Bende.	Brave-Akassa.	Calabar.	Deguma.	Ikom-Ocubra.	Obudu.	Ogoja.	Okigwi.	Opobo. Owerzi.	TOTAL.	Abalaliki.	Afikpo.	Bende.	Bonny.	Brass-Akassa,	Calabar.	Degema.	Ikom-Obubm.	Ikot Ekpene.	Obadu.	Ogoja.	Okigwi.	Opebo.	Owerri.	TOTAL.
Brought forward LOCAL DISEASES-continued.		1		3	2	45	4.		o	3	2	2 4	75	50	54	178	115	45	1,554	113	42	175	15	405	105	64	182	2,07
Diseases of the Generative Sys Male Organs :	stem :																											
Urethritis Gleet										ÌĽ.					***	***						***		100000	***	1	***	1
Stricture															0.0211	***	5		9	1				1		1	2	12
Prostatitis Soft Chancre															ĩ	1			6		3	1			***	1		1
Condyloma Inflammation of Scrotum					** ***								10000		5	1.000	1	1000									-	
Hydrocele					** ***		1			1			1		***	***	1	2	7		1	1				3	9	2
Orchitis Epididymitis				100	** ***										100		10000	10.00	4					3		3		1
Abscess of Testicle										·			144								***			1.000		***	***	
Other Diseases Female Organs :														••••	••••	1		1	9					1	***	14	***	2
Ovaritis																		10000	2							1		:
Ovarian Cyst Endometritis																		10.00	9						***		***	
Displacement of Uterus																		12001	2					10000			***	
Amenorrhopa		1																1			***			100000	***	1		
Dysmenorrhea																			3					10000	- 1.1			
Menorrhagia Leucorrhœa																			***	***	***	***		10000		***		
Abortion				in .			1				in.					1	1								***			
Delayed Labour Postpartem H#morrhage		1																1	1		***	1			***	***	***	1
Retained Placenta											in the					100000		10000				1					* *	-
Premature Birth Puerpueral Septicemia																***		10000	2			***	1			***	***	1 2
Mastitis										Į								10001	ĩ			1			***	***		1
Abscess of Breast Other Discases	••• •••														1000	0.0000		10.00	···					00000	***			1
Diseases of the Organs of Locor	motion :-	1				1			1		1							***				***					***	
Osteitis Arthritis		-														***			20		01.04	13	10000				1	11
Spondylitis																C		1000					1		***			
Bursitia Other Diseases				1			1.0						1 0			2		10001	3	3		***			***	***		
Diseases of the Connective T	issue :	1	1										1.4					10.2			1997					***		
Cellulitis Abscess	••• •••					2					1		34		52	2 14	14	32	78 132		23 33	11	1			6 9	4	
Elephantiasis														5 61	ī		1		2					1.000		21	10	
Diseases of the Skin :															1.1	1	1	100		20	110	Sec.	100	100		200		
Eczema				100	201 100	0.04	1		in para	10.00	1001	#1,000		2			1	2				1				1	2	1
Boils Carbunele															10000			10000	11		***			10000	2			2
Herpes										Į								1000	3					1800803	***	***	***	
Psoriasis Oriental Sore												-						12001							***		***	
Tinen																		10000	~~2			1		100000				
Scabies Acne																	***	100.00	6	1 2	1000	12.22					***	1
Prickly Heat																			111	1					***			
Other Diseases					. 1								11		0.001		1000	4	89 2			10 5	1000		9		1	18
Injuries-General												1				8			6			1						1
Local Surgical Operations												1		5 C C 1	10.50				119		1000		0.001		1.1.1.1.1.1			
Tumours															ĩ			1	15		6					2	1	194
Malformations Poisons																			···.1	***	***	***		000001	***			
Parasites-Animal															100000	***							***	10000	***		***	
Protozoa Trematoda (Flu)											h			1000	1000	***		1000		***			***	10074361				
Cestoda-	ses)		1		1		11			1	1					***					***			***			***	
Tænia Solium Tænia Saginata	••• •••																	1000		***		-1	10001	***				
Nematoda-	*** ***					1			10							***		***			***	***	-					
Ascaris Tricocephalus Di	spar																	1000	2	1000	10000	***		***				
Trichina																				***	***							104
Dracunculus Filariasis																	·		53	10000				15	2	1	8	1
Strongylus																					***							
Ankylostomiasis Oxyuris		100				1						2	3					-	166			***		***		1	6	17
Insecta-		-						** **				"Ì"								***			***	***		112	-	
Myiasis Other Diseases																			··· ₁	***	0.000			100000				
		-	-			-			-	-							***			***		***	***	***				
TOTAL		20	1	4	3 2	61	7.	- 1	9 1	3	7	5 9	115	89	81	256	177	78	2,279	162	99	258	22	548	165	126	264	4,60
		-	-	1	-	_	-	-	-	-	-	-								-	-		-					

TABLE VI.-RETURN OF DISEASES AND DEATHS (IN-PATIENTS)

YEARLY TOTAL,							REMAINING IN HOSPITAL AT END OF
DEATHS.			TOTAL CASE	ES TREATED			1912.
Pompy. Bonny. Ernas-Akarsa. Calabar. Degema. Ikon-Obinbra. Ikon-Obinbra. Ikot Ekpeno. Ogoja. Ogoja. Ogoja. Opeloo. Overri. TOTAI.	Abakaliki. Afikpo. Bende.	Bonny. Brass-Akassa.	Calabar. Degema. Ikom-Obulua.	Ikot Ekpene. Obudu.	Ogoja. Okigwi. Opobo.	Qwerri. TOTAL.	Alakaliki. Alakao. Bende. Bende. Brass-Akasea. Calabar. Degema. Degema. Degema. Okudua. Okudu. Okudu. Okudu. Okudu. Okudu. Okudu. Okudu. Okudu. Okudu.
8 4 3123 8 528 3 4 2 71924	51 55 13	77 116 45	1,580 117	42184 15	408 107 62	190 3,152	2 8 7 1 255 2 6 2 7 4 2 9104
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		1 2 4 2 20 15 5 1 1	4 11 3 			20 20 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 4 10 11	
		8 20 14 15 23) (24) (2) .2 1	(147) (23) (3 15 1 	15 38 4	28 35 23	19 (55) 349 (55) 349 1 29 1 1 1 1	
		1 1	2 5 3 167				
19 5 6 154 10 6 32 3 4 3 9 23 23		260 180 80	2,340 169	99 267 23	551 170 133	273 4,71	2 11 12 2 6 80 5 14 2 10 7 2 15 168

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THE YEAR 1912. EASTERN PROVINCE-continued.

TABLE VII. OUT-PATIENTS. SHEWING DETAILS OF CASES TREATED IN EACH MEDICAL DISTRICT, 1912. WESTERN PROVINCE.

		W.	EST	eRI	N P	RO	VII	NCI	5.		_	_			_	and the second
DISEASES.	Lagos.	Ereko.	Massey St.	Prison.	Ebute Metta.	Aro.	Itadan I.	Ibadan II.	Oshogło.	Ondo.	Epe.	Badagry.	Jebba.	Zunguru Extension.	Offn.	TOTAL.
INFECTIVE DISEASES :													1.1			0
Beri-Beri Cerebro-Spinal Fever		1		***		3	1			***				***	***	9
Chicken Pox		4			1	40	1	1						1		49
Cholera Dengue														***	***	
Diphtheria						24						1				
Endocarditis-Infective		50	50	22	2		29	25	12	***		12	1000	3	6	320
Enterie											***					***
Erysipelas Gonorrhœa	100		31	31	26	16	38	29	22			17	21		18	492
Influenza	100			01		10								4	10	5
Kala Azar Leprosy-(a) Nodular				***		***										***
(b) Anœsthetic		***				2		ĩ			101					
Malaria-(a) Tertian						***								1		1
(b) Quartan (c) Aestivo-			***	***	***	***										-01
autumnal	764	876	241	47	201	161	236	86	31		42	78	85	22	46	2,916
(d) Chronic Malsria		1			17.5%		7	6				45				58
(c) Black-water					ï				1							2
Measles Malta Fever			3			***						1				4
Plague	1 444						***		***					***	***	
Pneumonia	2 COLOR 1	1	***		***	1	5	4		***	2		1	1	3	30
Rabies Relay sing Fever									***							
Rheumatic Fever									***	***					1	1
Septicæmia Trypanosomiasis (Sleeping	***	1	***	***	***	***	***	1		***				***	***	2
Sickness)									***						***	
Small-Pox Syphilis-(a) Primary		2	1		 1	 19	1	12	5	***	1	***	1	69	4	92 28
(b) Secondary							1	î			1			***		3
(c) Inherited Tetanus	····_6	2						~ï	***	· 1	***	***	***			
Tuberculosis	. 6	2	1		1		27	3	ï		100	***	***			21
Whooping Cough Yaws						12	1	1			ĩ	5	2			14 25
Yaws						12								4	111	
Other Diseases INTOXICATIONS :	4	***		***			2	1	***						***	7
Alcoholism						2	1									3
Morphinism Other Diseases			***	***		***										
GENERAL DISEASES :	***	***	***			***	***	***	394			***	***	***		***
Anæmia	21	39	40		44	38	14	30	2	***		10	2	1		241
Anzemia—Pernicious Diabetes				***	***		***									
Exophthalmie Goitre																
Leucocythæmia				***	1										***	1
Hodgkin's Discase					•••											
Myxœdema Purpura		43.5	***	***	***			***								
Rickets					***			ï					***			1
Chronic Rheumatism	- starteda	273	499	- 47	166	181	***	***	 10		78	70	13	19	56	1,694
Other Diseases	1000				13	***	25			***	2	6	4			5)
LOCAL DISEASES :- Diseases of the Nervous System	:												-			
Sub-section 1 :			1		-	1.2	1				1 10					
Neuritis Meningitis	3	1	2		58	8	1				4	6			***	F3 2
Myelitis		1			***	***		1	***							2
Hydrocephalus				***	-in-					***		1	***	***	***	1
Abscess of Brain												***				
Congestion of Brain	3					***	 1	 1	***	***		***	1 15	1	***	5 28
Sub-section 2 :	10	***			1	44.4	1	1					10			
Apoplexy	4 3					1					***					5 10
Paralysis Chorea		2	***	***	***		4			1		***	***	ï		1
Epilepsy	9	4	1		1	7	7	4	6		1	2	***	5		47
Neuralgia Hysteria	60	262	58	6	72	16	131	103	3	3	1	9	9	15	10	758
Other Diseases					4							2				6
Montal Diseases : Sub-section 3 :		2														
Idiocy	1.00						-									
Mania	1	***	***				1	***		***	2			1	"i	51
Dementia	1						1							***		2
Delusional Insanity								1	2						***	3
Other Diseases									***	***		***	***			
Carried forward	1,415	1,621	927	156	593	531	521	314	95	9	146	265	157	152	145	7,047
		1											-			

TABLE VII.-continued.

OUT-PATIENTS.

SHEWING DETAILS OF CASES TREATED IN EACH MEDICAL DISTRICT, 1912-continued.

WESTERN PROVINCE-continued Metta. ž, Zunguru Extensi H Badagry. DISEASES. Oshogbo. TOTAL. Prison. Ibadan Massey Lagos. Ereko. Jebba. Ebute Itadan Ondo. Offa. Aro. Epe. Brought forward ... 1,415 1,621 146 265 157 152 145 7.047 LOCAL DISEASES—continued. Diseases of the Eye :— Conjunctivitis ... Keratitis ... 1,177 i 5 2 Ulceration of Cornea ï Iritis. Optic Neuritis ï ... -ï 11 2 00 04 ĩ \overline{i} ï Tricuspid Pulmonary Arterial Sclerosis ... Aneurism ... Other Diseases Diseases of Respiratory System-Laryngitis Bronchitis Bronchitis ... Gangrene of Lung ... Gangrene of Lung ... $\begin{array}{c}
 11 \\
 575 \\
 3
 \end{array}$ 91 3,644 Emphysema Pleurisy Pleurisy ... Empyema ... Asthma ... Other Diseases Diseases of Digestive System-Stomatitis ... Caries of Teeth Glossitis ... 65 $\frac{24}{53}$ 15 46 12 45 27 5 52 $\frac{60}{162}$ Sore Throat Inflammation of Tonsils... Gastritis Ulceration of Stomach -0 $\frac{70}{350}$ 7 42 ï Hæmatemesis ... Dilatation of Stomach Stricture of Stomach 19 $\frac{29}{10}$ Dyspepsia Euteritia Appendicitis Colitis ï ï Ulceration of Intestines Sprue 2) 210 57 49 96 154 102 1,287 ŝ .0 151 $\frac{78}{72}$ 112 42 62 Diarrhora Constipation Colic 143 1,883 81 11 12 6 21 Hæmorrhoids Pancreatitis ï Hepatitis-Acute ... ï Absoess ... Cirrhosis ... ï ï ï Jaundice Jaundice ... Peritonitis ... ï Ascites Other Diseases Diseases of Lymphatic System-Splenitis Inflammation of Lymphatic Gland Suppuration of Lymphatic $\overline{5}$ 1 9 Gland ... Lymphangitis Elephantiasis Other Diseases Diseases of the Urinary System: Acute Nephritis Bright's Disease ï Pyelitis ... Calculus Calculus ... Renal Colic ï Cystitis Vesicular Calculus Suppression ä Hæmaturia... Chyluria ... ï ï ï ï ï Other Diseases 3,280 4,283 3,430 439 2,073 1,172 1,652 ,458 235 452 644 454 323 553 20,379 Carried forward

112 TABLE VII.-continued.

OUT-PATIENTS. SHEWING DETAILS OF CASES TREATED IN EACH MEDICAL DISTRICT, 1912—continued. WESTERN PROVINCE—continued.

		WES	FERN	PRO	OVIN	CE-	conti	nued.	_					_		
DISEASES.	Lagos.	Ereko.	Massey St.	Prison.	Ebute Metta.	Aro.	Ibadan I.	Ibadan II.	Oshogbo.	Ondo.	Epe.	Badagry.	Jebha.	Zungeru Extension.	Offa.	TOTAL
Brought forward . LOCAL DISEASES-continued, Diseases of the Generative System	100000	4,283	3,430	439	2,073	1,172	1,652	1,458	236	85	492	614	454	323	553	20,379
Male Organs :	1 1000															15
Urethritis Gleet		2			3		1	1		· 1		***	***			15 3
Stricture Prostatitis	100000	1			,1	***	2	***	1	2		2	***		***	22
Soft Chancre	0				3	1		***				ï	5		1	13
Condyloms Inflammation of Scrotum	10							***		***				***	·	
Hydrocele		1			1	2	3	3		1				1		12
Orchitis Epididymitis		9	67	4	98	13	4	2	1	~ï		4	6	4	1	76 21
Abscess of Testicle				4			1			***						5
Other Diseases Female Organs :	. 21	5	***	***			***				1					27
Ovaritis Ovarian Cyst		2						ïi			***					21
Endometritus	. 3					5	1	î				***			***	13
Displacement of Uterus Vaginitis		2	2			 1	1	ĩ	***							3 11
Amenorrhom	,				1	2	113						***			6
Dysmenorrhœa Menorrhæja		***				21	3	1		1	1					11 7
Leucorrhea												1				• 1
Delayed Labour	1.					1							ï		***	2
Postpartem Hæmorrhage Retained Placenta						·			1	••••		1			***	2 2
Premature Birth	12 STOCT														***	
Puerperal Septicemia Mastitis					1	1		ï				ï	1			
Abseess of Breast	5.0 1 100					2	5									7
Other Diseases Diseases of the Organs of Locomotion :—												1				1
Osteitis Arthritis	110	5		1	2	18	4 187	149	30	25		54		ĩ		26 508
Spondylitis		2			23		10	··;; 6								
Other Diseases	3.4	26			20	ii	2	2		1	1	1	2	1		61
Diseases of the Connective Tissue :												-				
Cellulitis			- 44		55	7	41	7	185	2	7	7	14		19	545
Abscess Elephantiasis			58	30	96	39	48	57	26	1	10	11	28			840 1
Other Diseases								ï								î
Diseases of the Skin :	. 1	10	3			1	7	10				3				35
Eczema	. 129	100	130	7 23	49	6	29	28	13	1	8	17	4	1	10	532
Boil Carbuncle	10 m 10 mm 2	41	80	20	35	3	17	8	1	1	1	3	5	3		352
Herpes	. 3	1 4	2		3	1 2	4	3	1	1			1			26
Oriental Sore																
Saphian	. 26	16	22 37	14	24	69 10	14	4 2			19	11 9	21	1000	1	212 97
Acne	2	1				1	***					1		a state		5
Triacan	. 348		335		440	2 69	342	989		19	170	110	81	90	192	6 3,477
Other Diseases	60				7	356	5	1			28	10	5			88 393
Local	. 542	592	405	122	834	7	339	241	106	9	177	104	229		111	4,041
(Passanna)					2	(8)				"ï	ï	(2)		1.1		10 48
Malformations	. 4				5											9
Poisons		1	***			1							1	8		6
Protonos	3															3
Cestoda-							3	***								
Burnty Contrate	8	1100	100000		10	23	25	72				1	1	1 March		72 10
Nematoda-															***	
Ascaris Tricocephalus Dis	161	146	1000	14		70	513	1,045	36	28	30	90		1.000	42	2,227
Trichina															111	
Tilesiada	. 41		16	6	23	45	26	96	12		10 10	62		3	10	331
Strongeling																
Oxyuris						3	1	9								15
Insecta-						1						2				5
Chigres	. 2			ii												13
Others				1	1.000									***		1
TOTAL				004	0		-		05.4		051	1 002				
TOTAL .	5,236	57						4,145			1	1,062			941	Sector Sector
		The cas		he La	gos He	ospital	l and i	is also	includ		W	ESTI		PR 1 38,		NCE,

in cases on Table VI. under "Lagos."

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TABLE VII.—continued.

OUT-PATIENTS.

SHEWING	DETAILS	OF					DISTRICT,	1912—continued.
			CH	ENTRAL	PROV	VINCE.		

		C	ENT.	RAL	Ph	011	NCE					
DISEASES.		Warri.	Foreados.	Asaba.	Sapele.	Benin City.	Aboh.	Agbor.	Udl.	Okwoga.	Onitsha.	TOTAL.
Termony Dien tens		20										
INFECTIVE DISEASES :												
Cerebro-Spinal Fever				***								***
Chicken-Pox			3	1	in				1		1	6
Cholera		***	111	***				***				
Dengue Diphtheria			***	***	***	***		***		***		
Dysentery		58	24		13	25	~7	12		3	71	222
EndocarditisInfective				***					***	***	111	
Enterie		***	***			***	***				***	
Erysipelas Gonorrhom		161	215	18	35	37	31	1 69	16	18	56	656
Influenza	***				111							
Kala Azar				***		***				10.0		***
Leprosy-(a) Nodular					1	-011						1
(b) Anæstheti Malaria-(a) Tertian	C	7		1	***	***	14	***	1	$\frac{1}{9}$	***	10 23
(b) Quartan					***				***		44.4	
(c) Aestivo-												
autum (J) Chronia	nal	518	273	74	155	73	27	137	100	44	248	1,649
(d) Chronic Mala	ria	***	140		***	1	15	***	***	44.4		156
(e) Black-wate					2	1						3
Measles												
Malta Fever						***		***				
Plague Pneumonia	***	4		~~2	1			***	+++			33
Rabies	***		10			***	***	***	***			
Relapsing Fever		***										
Rheumatic Fever		***	3				***				***	3 1
Septicamia Trypanosomiasis (Sleepi	nor	*1+	4.4.4		***	*** -	10.0		1			
Sickness)						***						
Small-Pox	***		2 2		***					***		2
		6	2	***	4		***		1		9	22
(b) Secondary (c) Inherited	***	35		1	1	***	1			1		39 4
Tetanus		1						***	***			
Tuberculosis		10	1		5				2	1	14	33
		1			1						10	2
Yaws	***	3		4	5	2	14	2	1	***	12	43
Yellow Fever Other Diseases		***	9		133		***	***				102
INTOXICATIONS :	***	***		***	***			***				
Alcoholism					1	***						1
Morphinism	***	***			***	***			***	***	***	***
Other Diseases GENERAL DISEASES :		***		***	111			+++	***			***
Anamia		20	5		14	8	1	5			16	69
Anæmia-Pernicious									***		***	***
Diabetes	***	***						***	***	1	***	1
Exophthalmic Goitre Gout	***						***	***				
Leucocythemia		111										
Hodgkin's Disease	111											
Myxoedema			***	***		***		***	***		***	***
Purpura Rickets								***	***	***		***
Seurvy					110				2			***
Chronic Rheumatism	***	34			263			79		56		374
Other Diseases	***		***		1	***	***	54	***	***		55
LOCAL DISEASES : Diseases of the Nervous Syste	- me											
Sub-section 1:-								-		in the second		10
Neuritis		4	2		***		2	2			2	12 2
Meningitis Myelitis		1		***			1		***		***	
Hydrocephalus						***						
Encephalitis												***
Abseess of Brain			***		***	***		***	***		2	2
Congestion of Brain Other Diseases	***	3				***						4
Sub-section 2 :	***	0										
Apoplexy						***		2		2		2
Paralysis		2	2		***						6	12
Chorea Epilepsy		7	***	1			1	1		1		20
Neuralgia		118	68	65	40	12	20	45	6	8	53	435
Hysteria		1				***			1	***	***	2
Other Diseases		9					•••			1	***	10
Mental Diseases :												
Idioey		***							***			
Mania					1				***	***	+++	1
Melancholia				***						***	***	1
Dementia Delusional Insanity		1	1	***							***	î
Other Diseases		3	***	***	***							3
										140		1.010
Carried forward		1,007	769	175	486	249	134	409	136	146	507	4,018
[070000]											1	4.7

[279333]

TABLE VII.-continued.

OUT-PATIENTS. SHEWING DETAILS OF CASES TREATED IN EACH MEDICAL DISTRICT, 1912-continued. CENTRAL PROVINCE-continued.

		SMIRAL	1 100	INCE-	contra						
					5						
DISEASES.	1.1	los	.	10	5	12.38	13.00		Ϋ́.	i i	4
	E	ĕ	- pa	ele	nia	oh.	Por		N O	tsl	VI
	Warri.	Forcados.	Asaba.	Sapele.	Benin City.	Aboh.	Agbor.	Udi.	Okwogn.	Onitsha.	TOTAL.
an contraction of the second second				- 1							
Den state and	2 007		1.00	100	0.00	104		100	140	207	
Brought forward	1,007	769	175	486	249	134	-409	136	146	507	4,018
LOCAL DISEASES-continued.		-					1.00			1000	
Diseases of the Eye :	00				00	-		10			
Conjunctivitis	88	174	21	34	33	7	63	12 1	16	68	516
Ulceration of Cornea	38	6	1	***	14			4	4	2	11 69
Iritis	1				1					11	13
Optie Neuritis	2	***		***				11.1			2
Cataract Other Diseases	9 34	$\frac{1}{6}$	1	1	1	1 5	***	3			12
Diseases of the Ear :	01		-		***				***		50
Inflammation	76	60	21	55	11	9	19	4	4	- 88	341
Other Diseases	42		2	1.1.1		1	2		***	***	47
Diseases of the Nose : Nasal Catarrh	10	33		1		1	2		4	5	56
Diseases of the Circulatory		00				-			-		
System-							1.2.1				
Pericarditis Endocarditis							2		***		
Valvular-Mitrel	31	~ 5	~ 2	10			9	2	1		2 60
Aortic	14				1					1	16
Trieuspid		***							***		
Pulmonary Arterial Sclerosis			1	+++			***		***		
Aneurism											
Other Diseases	4	3				1		1			9
Diseases of Respiratory System Laryngitis	5	10		2			1	5	6	2	
Bronchitis	331	898	187	238		49	83	30	-56	426	31 2,391
Broncho-Pneumonia	8			1	2		2				13
Abscess of Lung	***			***	***						
Gangrene of Lung Emphysema			***	***	***				***	1	1
Pleurisy	5	1	2	3	~~3	1	8	4	3	7	37
Empyema				***	***		***				
Asthma Other Diseases		1	***		***	1	•••		***		
Diseases of Digestive System-		1			***	-					44
Stomatitis	19	36	13	17	4	2	2		6	-44	143
Caries of Teeth	56	56	4	18	1	9	14	6	11	45	220
Glossitis Sore Throat	6 15	14 1	4.4.4		1	1	2	~~2	~~2	1	24
Sore Throat Inflammation of Tonsils	9	27			8	î		2		16	22
Gastritis	69	7	2	29		1	15	8	15	90	236
Ulceration of Stomach Hæmatemesis			***		***		***				***
Dilatation of Stomach					+11					***	***
Stricture of Stomach											
Dyspepsia		74		27	5	9	35		3	81	324
Enteritis Appendicitis	2	4	***	***	***	1		2			7
Colitis		2	***		***	1		1			7
Ulceration of Intestines				***	***						
Hernia		8	1		1				1	3	*** #*
Diarrhora	258	256	56	231	65	37	46	73	41	131	61 1,194
Constipation	141	1,156	.94	143	66	45	56	186	60	328	2,275
Colic	100	31	6	2 5	10	4	10 1	1	14	201	347
Pancreatitis		11							1	3	50
Hepatitis-Acute	2	S			2	1					16
Abscess Cirrhosis		12	***						***		18
Jaundice	3	4			***			***			3 10
Peritonitis								P- 1			
Ascites				1		144	***				1
Other Diseases Diseases of Lymphatic System-	9	***		1				***	3	3	16
Splenitis	3	13	7	54	+++				1	78	156
Inflammation of Lymphatic		100		1		100		100		100	
Gland Suppuration of Lymphatic	85	107	19	9	17	11	11	19	.9		287
Gland		8			3	1			1	1440	18
Lymphangitis	10	1	2	12			12		ī	19	57
Elephantiasis Other Diseases		2 1			+++		1		***		3
Diseases of the Urinary System								***			17
Acute Nephritis	4	***								1	5
Bright's Disease		***			+++		15			1	17
Pyelitis Calculus								***			***
Renal Colic									***		***
Cystitis	. 19	6		4	***					1	30
Vesical Calculus Suppression							***	4.8.8	•••		
Hæmaturia	4	***									4
Chyluria									+++		
Other Diseases											
Carried forward	2,717	3,711	617	1,400	597	339	829	502	409	2,164	14,379
	1					1000					

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TABLE VII.—continued.

OUT-PATIENTS.

SHEWING	DETAILS	OF	CASES TREATED	IN EACH	MEDICAL	DISTRICT,	1912-continued.
			CENTRAL PR	OVINCE-00	ntinued.		

City. Forcados. ogn. TOTAL. DISEASES. Warri. Onitsha Benin Sapele. Agbor. Asaba. Aboh. Udi. Olo 2,717 3,711 1,400 2,164 14.379 Brought forward LOCAL DISEASES - continued. Diseases of the Generative System :--Male Organs :--Urethritis Gleet1 Stricture Prostatitis ~ 2 Soft Chancre1 Condyloma Inflammation of Scrotum1 Hydrocele Orchitis1 ï Endometritis Displacement of Uterus ... $\hat{9}$ Vaginitis Amenorrh@a 3 9 ⁻⁻⁻1 Dysmenorrhœa Menorrhæjia 22 33 "1 "1 ^{...}11 Retained Placenta Premature Birth ... ----1 Puerperal Septicamia Mastitis 2 22 ----1 Mastrits Abscess of Breast ... Other Diseases ... Diseases of the Organs of Locomotion :--Osteitis ... 3 8 ⁻⁻⁻1 1,211 Arthritis Spondylitis... Bursitis Other Diseases "1 $\frac{23}{174}$ Diseases of the Connective Tissue :---Cellulitis ... 1,7801.638 Abscess ... Elephantiasis Other Discases Diseases of Skin :--Urticaria ... 20 2 1.135 13 47 276 21 75 10 9 Eczema Boil ... 19 Carbuncle ... Herpes 1 Psoriasis Oriental Sore 1.236 74 Tinea Scabies 1,447 Acne Prickly Heat ... 2 53 2 1,760 Ulcers Other Diseases Injuries-General Local ... iii 4,840 2,055 Surgical Operations Tumours Malformations ---2 Poisons ... Parasites-Animal Protozoa Trematoda (Flukes) Cestoda-Tienia Solium ,, Saginata Nematoda— Ascaris Tricocephalus Dispar 13 2 -5 Trichina ... Dracunculus Filariasis Strongylus ... Ankylostomiasis Oxyuris ... π Insecta-My iasis i Chigres Pediculi \overline{b} Other Diseases 28,912 823 5,2:0 TOTAL 5,489 8,268 1,575 | 2,384 1,432 1,641 1.244

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CENTRAL PROVINCE, TOTAL 25,375.

TABLE VII.-continued.

OUT-PATIENTS. SHEWING DETAILS OF CASES TREATED IN EACH MEDICAL DISTRICT, 1912--continued.

Berl Berl In	SHEWING DETAILS 0	11	-	E.	AST	ERN	V P	ROV		NCE		1013						
Berl Berl Berl Berl	DISEASES.	Abakaliki.	Afikpo.	Bende.	Bonny.	Brase-Akassa.	Calabar.	Degema.	Eket.	Ikom-Obubra.	Ikot Ekpene.	Itu.	Obudu.	Ogoja.	Okigwi.	Opobo.	Owerri.	TOTAL.
Berl Berl Berl Berl		-							1			ĪÌ						
Cerbon-Spiral Ferr In I	INFECTIVE DISEASES :																	
Chales n <td></td> <td>100</td> <td>10000</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1.000</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		100	10000								1.000							
Degree	Chicken-Pox			1	***			***	1.00		1	1.000			***	1	4	124
Babelericiis-Inferite In In </td <td>Dengue</td> <td></td> <td>144</td> <td></td> <td></td> <td>***</td> <td></td> <td></td> <td>- 1</td>	Dengue											144			***			- 1
Biologicalis-Interior In In </td <td>Dysentery</td> <td></td> <td>1 1 10</td> <td>~~2</td> <td>~1</td> <td></td> <td>13</td> <td>Ĩ1</td> <td></td> <td>1</td> <td></td> <td>3</td> <td>2</td> <td></td> <td></td> <td>31</td> <td></td> <td> 86</td>	Dysentery		1 1 10	~~2	~1		13	Ĩ1		1		3	2			31		86
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	77																	
Influenza .	Erysipelas	11	21				144				10000						110	444
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Influenza			1000														25
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Leprosy-(a) Nodular					2			10001		+++					3		5
(*) Quartan	NY 3 4 6 1 100 44															184		16
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	(b) Quartan											1000						
	Autumna	3	1 56	162	77	67	647	152	79	114	89	67	79	1	60	229	252	2,162
(c) Black-water	Malaria				1.12		2										6	9
Mails Fore m	24								100	1				1				42
Pre-immonia 1 1 1 4 4 2 1 1 Rabasing Fore	Malta Fever										100000							
Relaping Fever	Pneumonia				2			····1			1	4	1			~ 2		18
Rheeimakie Ferer	TO 1 / TT																	2
Trypacoonniais (Sleping Sinkli-Yox,,,,,,,, .	Rheumatic Fever			3				1		***				***	***			27
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Trypanosomiasis (Sleeping				10				1931	***							***	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$												1.000						149
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Syphilis-(a) Primary			···· 2		1	4	2			111	1			4	1		21 97
Wilcoping Congli. Image: Signal and S	(c) Inherited					39				1	100		1					49
Wilcoping Congli. Image: Signal and S	Tuberculosis				1		3				3	1					3	3 27
Velicy Fever	Whooping Cough		- 0		~~2	14						***				~~8	2	11 86
ISTOLEANTS :- Alcoholism.	Yeliow Fever							***		***								
Morphinism	INTOXICANTS : -		1 0							•••	1 821				15			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
Other Diseases	Mambinian								1.00			Encourse and	1000	1.1.1.1.1.1.1				5
Assemia	Other Diseases					-				***								
Diabetes	Anzemia								1.000							1.000		57
Gout <td>Diabetes</td> <td></td> <td>1</td>	Diabetes																	1
Leucocythamia 1 <	C											1000						1
Myxodema m <td< td=""><td>Leucocythæmia</td><td></td><td>l</td><td></td><td></td><td>1</td><td>4.6.8</td><td></td><td></td><td></td><td>***</td><td></td><td>***</td><td></td><td></td><td></td><td>***</td><td>2</td></td<>	Leucocythæmia		l			1	4.6.8				***		***				***	2
Rickets	Myxoodema								10001									
Sourry <	Rickets																	
Other Diseases	Seurvy	12	1 37	110	114				98			73				170		
Diseases of the Nervous System : Subsection 1 : 1 2 1 2 4 5 10 3 1 1 1 38 Meningitis	Other Diseases								7			1.2.28	0.000					51
Neuritis 1 2 1 2 4 5 10 3 1 <t< td=""><td>Diseases of the Nervous System</td><td>=</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Diseases of the Nervous System	=																
Meningitis	Neuritis	1	1 2	1	2	4		5	10	3		1		1				30
Hydrocephalus	Meningitis								1 I			1.00	***				***	
Abseess of Brain	Hydrocephalus	-								***	114			***	***		***	
Other Diseases	Abscess of Brain										***							
Sub-section 2 : Apoplexy .	Other Diseases						10000					DOUGH I						
Paralysis	Sub-section 2 :						1.10111					100		10220			1.11	
Neuralija	Paralysis						1		1		***		***	***	***	2	***	4
Neuralija	Epilepsy			2		3	2			1						3	1	20
Other Diseases 1 1 1 5 <	Hysteria		1 1 2 2 2				1		10000			100				40	10000	567
Sub-section 3 : Idiocy Idiocy <thidiocy< th=""> <</thidiocy<>	Other Distases		1.00												100 C 10			
Manía </td <td>Sub-section 3 :</td> <td></td>	Sub-section 3 :																	
Dementia	Mania			***								10000		100000		1000000000	0.000	3
Delusional Insanity	Melancholia						100000				1	1000				***	1000 C	3 5
	Delusional Insanity								***			***	***				***	
Carried forward [20] [01 002 204 102 1,040 302 491 304 410 19/[144 82 323 600 506 6,478	0.114	-						-					-					
	Carried forward	12	line	902	201	193	1,010	002	101	904	410	1.511	11	0.2	040	000	000	0,918

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TABLE VII.—continued.

OUT-PATIENTS.

SHEWING DETAILS OF CASES TREATED IN EACH MEDICAL DISTRICT, 1912-continued.

TABLE VII.-continued.

OUT-PATIENTS. Shewing Details of Cases treated in each Medical District, 1912--continued. Eastern Province--continued. é i

DISEASES.	Abakaliki.	Afikpo.	Bende.	Bonny.	Brass-Akass	Calabar.	Degema.	Eket.	Ikom Obubra	Rot Ekpene	Ita.	Ogoja.	Okigwi.	Opobo.	Owerri.	TOTAL
Brought forward	349	317	709	859	470	4,514	808	697	702	947	472 49	7 463	706	1,562	1,581	15,646
LOCAL DISEASES-continued. Diseases of the Generative System :													1			
Male Organs :						5			2		1 .				2	10
Gleet Stricture				6 2	$\frac{1}{2}$	2 1	34	3	···-2	***		. 1	1	5	2 1	19 18
Prostatitis Soft Chancre						12	~5	~2		1	1.			····9	2	61
Condyloma Inflammation of Scrotum						3		***	***	***	10000100			5		36
Hydrocele Orchitis	·	2		4	4 8	2 19	53			5		$\frac{1}{5}$ $\frac{2}{3}$		5		25 76
Epididymitis				2 1	2	1	2		1	2			1	4		15 1
Other Diseases Female Organs :	7		1	***		3		ĩ		1				15	2	31
Ovaritis			***	1		***	1		***		DOM: NOT		***	1	42	7
Endometritis				1								** ***				2 3 3
Vaginitis							1				100000000			1		3
Amenorrhea Dysmenorrhea				4	 11	36		1	1	1						7 29
Menorrhagia Leucorrhæa					2	1	1	2	***		and the second second			1 1		29 7 3
Abortion Delayed Labour			1						***	***						1
Postpartem Hæmorrhage Retained Placenta						***		***								***
Premature Birth Puerperal Septiesmia			***			***	1		***							1
Mastitis	1							2	1	3	1.		1	2		8
Other Diseases Diseases of the Organs of									3						1	â
Locomotion : Oscitis	6			1		17	1		2	9				1	2	40
Arthritis Spondylitis	5			41	7	7	30	2	34	17	5.	. 104	9	45		319
Eursitis Other Discases	1	2		1		12 3	2	1.1.1			2 .			63		31 53
Diseases of the Connective . Tissue :																
Cellulitis Abscess	38	12 29	9 40	3 35	13 28	296 161	5 24	3	358 11	14 69		4 6 9 68		65 29	20 21	871 648
Elephantiasis Other Diseases	3		1 2	2	1 4	5		1			100 million (100	1			2	15 11
Diseases of the Skin :			1	2		1	2	9	1	***		1	3		8	28
Eczema		39 8	5 12	137	44	201 143	11 12	19	20 26	45 13		9 100	152	168 25	60 3	1,089
Carbunele						4					1000					4
Psoriasis			1			5 1	1		***	2 4	 S3480 	** ***	1			12 6
Oriental Sore Tines	11	111	7	1	31	150	4		17	17	12 .		25	41	10	328
Acne	11		65	5		17	52	18	9	23			17	11	69 1	300 4
Prickly Heat Ulcets	90	57	2 135	150	281	1,152	169	101	••••	270	54 0	1		6 137	13 226	23 3,218
Other Diseases Injuries-General			9 6	1	2	54 84	11	1	2	5	4	6	138	15	2 1	249 94
Local Surgical Operations	202	87	151 8	271	231	1,008	76	29 7	$\frac{194}{226}$	345	8211	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	456	224 3	273	3,952 256
Tumours		7	2	6	1	10	12	7	1	~7		. 1	21	10		66 2
Poisons					1			***	2	1		ïn	2			17
Protozoa					***				***						***	
Cestoda-	***				***	2			***							
Tenia Solium Tenia Saginata Nematoda— :				***	***	19										19
Ascaris Tricocephalus Dispa	1		1	5	3	52	1			21	10000	9 1	7	14	10	106 1
Trichina	31				12	47			 13			3 7			2 10	2 164
Filariasis			***	6	1	6	2		2	***	1	2		5	27	52
Ankylostomiasis			***			29			***					9		49
Oxyuris Insecta—				***	***					1	1.			***	27	30
Myiasis Chigres			***			1			1							3
Pediculi Other Diseases			 18	···-4	1	4			1	··· ₁			1	··· ₁	···1	34
TOTAL	806	602	1,198	1,550	1,178	8,056	1,259	921	1,440	1,804	742 78	4 1.222	1.734	2,452	2,420	28,163
					Ren I	EAST	FERN	PR	OVIN	CE, I	OTAL	24,311.				

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TABLE VIII.

ANNUAL RETURNS OF ANTI-MOSQUITO WORK.

			Houses Inspected.	Number of Houses with Larvæ.	Number of Receptacles with Larvæ.	Mosquito Index 1912.	Rainfall.	Mosquito Index 1911.
Lagos and El	bute Met	tta	491,104	26,780	32,805	5.04	40.50	13.1
Aro			6,535	- 243	360	3.07	31.72	48.0
Epe			9,354	1,240	2,139	13.25	64.69	
Badagry			24,762	812	1,143	3.72	34.79	11.0
Ibadan I.			8,324	146	235	1.75	27.86	-
Ibadan II.			34,912	4,307	10,367	12.33	27.86	-
Oshogbo			4,614	452	601	9.79	39.65	-
Warri			51,171	178	189	0.34	110.37	0.7
Forcados			13,059	128	163	0.98	170-26	2.4
Sapele			9,947	139	277	1.39	96.70	1.4
Benin City			7,132	1,101	2,700	15.43	78.26	10.7
Agbor			2,985	130	212	4.35		36.2
Onitsha			7,171	21	21	0.29	61.45	14.0
Aboh			1,153	72	89	6.24	103.37	34.1
Asaba			6,759	789	1,053	11.67	67.35	
Awka			1,706	53	80	3.01		
Koko			2,406	38	75	1.57	-	
Okwoga			5,572	1	1	0.01	54.09	
Udi			745	27	34	3.62	58.72	-
Calabar			15,490	205	226	1.32	95.10	3.8
Opobo			14,853	233	292	1.56	140.81	2.6
Bonny			7,731	529	539	6.84	178.41	7.8
Degema			17,838	540	801	3.02	71.35	5.8
Brass			8,909	132	148	1.48	140.08	6.4
Owerri			7,450	314	691	4.02	84.46	4.4
Okigwi			7,876	27	33	0.34		1.2
Itu			3,237	308	406	9.51	-	24.1
Abakaliki			5,038	49	49	0.97	-	0.4
Ikom-Obubra	a		2,833	62	76	2.18	82.44	16.1
Bende			1,532	244	386	15.08	92-39	-
Afikpo			4,231	318	379	7.51	49-39	-
Eket			780	417	733	53.04		-
Ikot Ekpene			3,185	89	104	2.79	94.79	-
Obudu			1,603	121	144	7.05		
Ogoga			2,063	-		-	-	-

PROVINCIAL ANNUAL RETURNS OF ANTI-MOSQUITO WORK.

		Houses Inspected.	Number of Houses with Larvae.	Number of Receptacles with Larvæ.	Mosquito Index 1912.	Mosquito Index 1911.
WESTERN PROVINCE		 579,605	33,980	47,650	5.86	13-3
WESTERN PROVINCE Lagos)	(exclud	 88,501	7,200	14,845	8.13	32.3
CENTRAL PROVINCE		 109,806	2,677	4,894	2.43	2.8
EASTERN PROVINCE		 104,649	3,588	4,977	3.42	5.3
GRAND 7	TOTAL	 794,060	40,245	57,251	5.06	11.1

			Houses Inspected.	Number of Houses with Larvæ.	Number of Receptacles with Larvæ,	Mosquito Index 1912.	Rainfall.	Mosquito Index 1911.
	ESTERN GOS AND							
			A Construction of the	11.500	14 590	0.07	0.51	
1st 2nd	Quarter		 $119,790 \\ 121,191$	$11,720 \\ 5,970$	$14,539 \\ 7,493$	9·07 4·09	2.71 22.86	
3rd			 123,142	5,520	6,750	4.04	9.82	
1th			 126,981	3,570	4,023	2.08	5.11	1
		TOTAL	 491,104	26,780	32,805	5.04	40.50	13.1
	А	RO.		19				utpell
lst	Quarter		 				0.95	
2nd	. ,,		 				17.93	
Brd			 3,025	188	297	6.21	9.19	See States
th	**		 3,510	55	63	1.56	3-65	See Spill
		TOTAL	 6,535	243	360	3.07	31.72	48.0
		PE.						
	Quarter	•••	 1.001				1.77	
2nd Brd	1.8		 1,681	373 490	809 762	22.18	25.66 23.37	
th	99 93		 3,775 3,898	377	568	12.98 9.67	13.89	
		TOTAL	 9,354	1,240	2,139	13.25	64-69	
	Pur	AGRY.						
ot			10.270	000	201	8.01	0.07	
and	Quarter		 10,372 7,310	209 248	304 385	2·01 3·39	0.65 19.68	
rd	23 33		 3,259	164	219	5.03	11.12	
th	"		 3,821	191	235	4.99	3.34	
		TOTAL	 24,762	812	1,143	3.27	34.79	11.0
	IBAD	AN I.						
	Quarter		 514	18	18	3.50	1.63	
nd			 1,760	54	94	3.06	16.84	
rd			 2,941	41	71	1.39	6.81	
un	**		 3,109	33	52	1.06	2.58	
		TOTAL	 8,324	146	235	1.75	27.86	
1.4	IBADA	AN II.						
	Quarter		 1,071	251	1,430	23.43	1.63	
nd	"		 6,717 10,131	437 946	1,771 1,922	6·50 9·33	16·84 6·81	
th	33 33		 16,993	2,673	5,244	15.73	2.58	
		TOTAL	 34,912	4,307	10,367	12.33	27.86	
	Osno	OGBO.						
st	Quarter		 				2.10	
nd	33		 334	29	38	8.06	14.89	
rd			 2,014	187	234	9.02	12.63	
th	"		 2,266	236	329	10.04	10.03	
		TOTAL	 4,614	452	601	9.79	39.65	

TABLE VIII.—ANNUAL MOSQUITO RETURNS.—continued. Results of Work during the Four Quarters of the Year 1912.

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		Houses Inspected.	Number of Houses with Larvæ.	Number of Receptacles with Larvæ.	Mosquito Index 1912.	Rainfall.	Mosquito Index 1911.
DENTRAL	PROVINCE.						
W.	ARRI.					1	
st Quarter		11,968	26	36	.21	7.27	601.62
and "		12,645	61	62	.48	31.06	
Brd "		13,002	59	59	•45	51.84	1.4
th "		13,556	32	32	.23	20.20	
	TOTAL	51,171	178	189	•34	110.37	0.07
For	CADOS.						
lst Quarter		1,653	22	22	1.33	12.80	in second by
and "		2,514	56	67	2.22	51.47	
Brd "		4,293	24	43	-55	61.07	
ith "		4,599	26	31	.56	44.92	
	TOTAL	13,059	128	163	·98	170.26	2.04
SA	PELE.					0	
st Quarter		2,964	22	36	.74	3.25	
and "		2,838	46	64	1.62	41.23	
ord "		2,339	34	102	1.45	38.24	
ith "		1,806	37	75	2.04	13.98	
	TOTAL	9,947	139	· 277	1.39	96.70	1.04
BENI	м Сіту.						
st Quarter		324	126	308	38.08	6.71	
Ind "		1,001	426	1,019	42.55	31.53	
ird "	· · · · · · ·	3,012	322	752	10.69	29.22	
lth "		2,795	227	621	8.12	10.80	
	TOTAL	7,132	1,101	2,700	15.43	78-26	10-07
Ag	BOR.						
st Quarter		1,394	87	140	6.24		
and "		731	19	34	2.59		
ird "		494	16	30	3.23	34.51	
th "		366	8	8	2.18	11.30	
	TOTAL	2,985	130	212	4.35		36 02
Oni	тяна.	-					
st Quarter		2,013	4	4	.19	3.62	
and "		1,919	10	10	.52	18.56	
Brd "		1,993	7	7	•35	31·57 7·70	
ith "		1,246					
	TOTAL	7,171	21	21	•29	61.45	14-00
A	вон.						
lst Quarter		191	8	9	4.18	2.54	
and "		532	27	29	5.07	28.67	
Brd "		180	23	33	12.07	52.79	
lth "		250	14	18	5.06	19.37	
	TOTAL	1,153	72	89	6.24	103.37	34-01

TABLE VIII.—ANNUAL MOSQUITO RETURNS—continued. Results of Work during the Four Quarters of the Year 1912.

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	in the last	Houses Inspected.	Number of Houses with Larvæ,	Number of Receptacles with Larvæ.	Mosquito Index 1912.	Rainfall.	Mosquito Index 1911.
Central	PROVINCE-						
	inued.	-				DREEDOUN	A CHANKS
As	SABA.						11
lst Quarter						4.46	
2nd "		394	93	131	23.06	20.29	
3rd "		1,304	315	450	24.15	35.41	
4th "		5,061	381	472	7.05	70.19	
	TOTAL	6,759	789	1,053	11.67	67.35	
A	VKA.						
lst Quarter 2nd							
2 mil		1,085	22	34	2.02		1. 1
th "		621	31	46	4.99		
	TOTAL	1,706	53	80	3.01		
K	око.						
lst Quarter							
2nd ,,		545	19	42	3.48		
Brd "		869	10	15	1.15		
ith "		992	9	18	0.90		
	TOTAL	2,406	38	75	1.57		
0.5	WOGA.						
	woga.						
lst Quarter		1,739				4.89	
2nd "		1,610				20.66	1
3rd " ith "		1,224 999		 1	0.10	23.73	
tin "		999	1	1	0.10	4.81	10. 14
	TOTAL	5,573	1	1	0.01	54.09	
τ	DI.						
lst Quarter		183	1	1	0.54	3.00	
C		196	14	19	7.14	17.14	HIND A
3rd "		195	7	7	3.05	26-03	
ith "		171	5	7	2 92	12.55	
	_						
	TOTAL	745	27	34	3 62	58.72	
	PROVINCE.						
CAI	ABAR.	6.0					
lst Quarter		2,454	33 _	34	1.03	3.23	
2nd "		2,206	24	25	1.08	31.05	
3rd "		3,538	83	100	2 03	41.75	
ith "		7,292	65	67	0.89	19 07	
	TOTAL	15,490	205	226	1.32	95-10	3.08
0	POBO.						
lst Quarter		0 550	20	0.2	0.70	1	Particular State
too wuarter		3,559	26	26	0.73	16.74	11
1 1		4,539	63 69	101	1.38	42.83	
2nd ,,		4,517		75	1.52	66.41	
2nd " 3rd "		2.238	75	90	2610.25	4.83	
2nd " Brd "		2,238	75	90	3.03	14.83	

TABLE VIII.—ANNUAL MOSQUITO RETURNS—continued. Results of Work During the Four Quarters of the Year 1912.

		LAPER	Houses Inspected.	Number of Houses with Larvæ.	Number of Receptacles with Larvæ.	Mosquito Index. 1912.	Rainfall.	Mosquito Index 1911.
EA	cont	PROVINCE- inued. NNY.						
1st C	Quarter		2,787	130	131	4 06	11.85	Separation 1
2nd	"		2,345	123	124	5.02	68.50	
3rd 4th	"		1,766 833	155 121	157 127	8.07 14.05	71·24 26·82	1. 19
1011	"			121	121	1100		
		TOTAL	7,731	529	539	6.84	178.41	7.08
	DEG	EMA.						
	Quarter		2,505	140	196	5.05	3.73	
2nd 3rd	"		4,729 5,184	107 220	169 328	2·26 4·24	23·43 31·82	service de la
4th	33 33		5,420	73	108	1.34	12 37	
		TOTAL	17,838	540	801	3.03	71.35	5.08
	Br	ASS.						
1st (Quarter		3,779	44	45	1.19	7.91	
2nd	11		2,457	37	38	1.05	54.98	
3rd	33		1,118	21	24	1.08	60.76	
4th	>>		1,555	30	41	1.09	17.15	
		TOTAL	8,909	132	148	1.48	140.08	6 04
	-							
		ERRI.		120			-10.000	
	Quarter		1,244	10	24	0.08	7.93	
2nd 3rd	**		$1,924 \\ 2,166$	79 158	148 364	4·01 7·29	30·76 34·53	
4th	99 99		2,116	67	155	3.01	11.24	
		m			201	1.00		1.01
		TOTAL	7,450	314	691	4.02	84.46	4.04
	Ок	IGWI.						
1st (Quarter		1,904	2	2	0.105		
2nd			1,924	14	16	0.72		
3rd	"		2,056	6	9	0.29		
4th	"		1,992	5	6	0.25	***	
		TOTAL	7,876	27	33	0.34		1.02
	T	ru.						
lat O	uarter							in provident
2nd	33		382	55		14.03		
3rd	**		1,363	163	217	11.95		
4th	"		1,492	90	107	6.03		
		TOTAL	3,237	308	406	9.51		24.01
		CALIKI.						
	Quarter		1,272	13	13 20	1.02		
2nd 3rd	"		1,320 1,217	20 9	20 9	1.05 0.07		
4th	33 39		1,229	7	7	0.56		
		TOTAL	5,038	49	49	0.97		0.04

TABLE VIII.—ANNUAL MOSQUITO RETURNS—continued. Results of Work during the Four Quarters of the Year 1912.

4		Houses Inspected.	Number of Houses with Larvæ.	Number of Receptacles with Larvæ.	Mosquito Index 1912.	Rainfall,	Mosquito Index 1911.
	PROVINCE-	-				-	
	OBUBRA.						
		0.01	×	5	0.58	4.27	
1st Quarter 2nd "		861 557	5 14	27	2.05	26.38	
3rd "		543	31	32	5.70	42.02	
lth "		872	12	12	1.37	9-77	
	TOTAL	2,833	62	76	2.18	82.44	16.01
Be	NDE,						
lst Quarter		271	40	60	14.07	4.22	10.00
and "		322	50	94	15.05	32.85	
Brd "		589 350	130 24	201 31	22.07 6.08	45·80 9·52	
ith ,,					0.00		
	TOTAL	1,532	244	386	15.08	92.39	
	IKPO,						
lst Quarter		1,022	2	2	0.19	2.89	-
2nd ,, Brd ,,		$1,158 \\ 440$	91 37	113 45	7-08 8-04	16·32 25·17	
th "		1,611	188	219	11.06	5.01	
	TOTAL	4,231	318	379	7.51	49.39	
E	KET.						10.3
lst Quarter							
and "							1.
Brd "	•						A 100
lth "		780	417	733	53-04		1000
	TOTAL	780	417	733	53-04		
Ікот-І	Ekpene.						esting 3
st Quarter		267	2	2	0.74	6.13	
2nd ,, 3rd ,,		586 965	32 37	41 38	5.46 3.83	23.04 53.32	
th "		1,367	18	23	1.31	12.30	
	TOTAL	3,185	89	104	2.79	94.79	
0.	UDU.						- To
		186	21	33	11.02		-
lst Quarter 2nd ,,		268	23	32	8.05		
Brd "		338	61	61	18.04		
ith "		811	16	18	1.97		×
	Total	1,603	121	144	7.05		
Og	oj a .				100		
st Quarter		455					
and "		529					
Brd "	••• •••	585					
ith "	••• •••	494					
	TOTAL	2,063	100000000000000000000000000000000000000				

TABLE VIII.—ANNUAL MOSQUITO RETURNS—continued. Results of Work during the Four Quarters of the Year 1912.

TABLE IX.

TABLES OF CASES OF MALARIAL FEVER.

EUROPEANS.

and the states of the		Cas	8128,	and the second	DEATHS.					
	1909.	1910.	1911.	1912.	1909.	1910.	1911.	1912.		
Western Province	370	347	387	310	3	3	1			
Central Province	149	174	198	238	2	1 .		3		
Eastern Province	244	296	211	252		3		1		
	763	817	696	800	5	7	1	4		

NATIVES.

	CASES.				Deaths.			
	1909.	1910.	1911.	1912.	1909.	1910.	1911.	1912,
Western Province Central Province Eastern Province	2,393 1,028 1,983	2,876 1,285 1,971	3,042 1,572 1,834	2,950 1,901 2,672	8 7 4	 4 6	10	10 5 9
Lastern 1 rornee	5,404	6,132	6,448	7,523	19	10	17	24

TOTAL CASES OF MALARIAL TREATED.

(European and Native.)

	Cases.			DEATHS.				
	1909.	1910.	1911.	1912.	1909.	1910.	1911.	1912.
Western Province Central Province Eastern Province	2,763 1,177 2,227	3,223 1,459 2,267	3,329 1,770 2,045	$3,260 \\ 2,139 \\ 2,924$	11 9 4	3 5 9	11 	10 8 10
	6,167	6,949	7.144	8,323	24	17	18	28

			CAS	ES.		DEATHS.				
		1909.	1910.	1911.	1912.	1909.	1910.	1911.	1912.	
Lagos	 	175	199	172	187		3	1		
Lagos Warri	 	40	73	51	108				1	
Calabar	 	94	124	76	82		1		1	

NATIVES.

		Cases.				DEATHS.			
	-	1909.	1910.	1911.	1912.	1909.	1910.	1911.	1912.
Lagos	 	1,728	2,150	2,410	2,187	5		9	9
Warri Calabar	 	226	325	424	508 812	1			$\frac{2}{4}$

TOTAL CASES OF MALARIAL FEVER.

(Euro	pean	and	Nat	ive.)	1
-------	------	-----	-----	-------	---

			Сл	szs.		DRATHS.			
		1909.	1910.	1911.	1912.	1909.	1910.	1911.	1912.
Lagos Warri Calabar	 	1,903 266 668	2,349 398 1,028	2,582 475 925	2,374 616 894	5 1 	··· 3 ··· 2	10 1	9 3 6

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EUROPEANS.

1912.

TABLES OF BLACK-WATER FEVER CASES.

	Cases.				· DEATRS,			
	1909.	1910.	1911.	1912.	1909.	1910.	1911.	1912.
Western Province	14*	17	17	7‡	4	3	6	2‡
Central Province	13 .	11	2	10‡	4	3		2
Eastern Province	4	6	7†	6	2	1	2	Nil
	31	34	26	23	10	7	8	4

* Includes 1 Hindu and 1 Syrian.

† " 1 Syrian.

‡ " 1 West Indian.

			CA	SES.		DEATHS.			
		1909.	1910.	1911.	1912.	1909.	1910.	1911.	1912.
Lagos	 	7	11	8	6†		1	5	2†
Warri	 	2	2		3	1			1
Calabar	 			1*	1			1	

* A Syrian.

+ Includes a West Indian.

N.B.—One of the 10 cases shown in the Central Province Return (a non-official European at Warri) died on January 1st, 1913.

POPULATION ACCORDING TO THE CENSUS RETURNS (1911).

	Residents.	Europeans. Local Steamers.	Ocean Steamers.	Asiatics.	West Africa and other coloured races.
Western Province	790	77	72	63	2,151,923
Central Province	395	35	476	3	2,407,685
Eastern Province	426	2	158	33	3,296,628
Lagos	472	77	72	43	73,115
Warri	74	1	49		2,451
Calabar	148	2		27	14,086
	2305	-		0.00	the strength

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TABLE OF CASES OF FILARIASIS, 1912.

WESTERN PROVINCE.

EUROPEANS.

Nil.

NATIVES.

		Official.			NON-OFFICIAL.			
		Recovery.	Died.	Total.	Recovery	Died.	Total,	
Male Female	 	 1		1	6 1		$ \begin{array}{c} 6\\ 1 \end{array} $	
		 1		1	7		7	

CENTRAL PROVINCE.

EUROPEANS.

Nil.

NATIVES.

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		OFFICIAL.		Non-Oppicial.			
		Recovery.	Died.	Total.	Recovery.	Died.	Total.	
Male Female	 				19 3	1	20 3	
					22	1	23	

EASTERN PROVINCE.

EUROPEANS.

	-	Official.			NON-OFFICIAL.			
	Recovery.	Died.	Total.	Recovery.	Died.	Total.		
Male Female			2	1 1	 	1 1		
	2		2	2		2		

NATIVES.

no.			OPPICIAL.		NON-OFFICIAL.				
		Recovery.	Died.	Total.	Recovery.	Died.	Total.		
Male	 	 2		2	55		55		
Female	 	 			4		4		
		2		2	59		59		

TABLE X.

TABLE OF CASES OF INFECTIOUS DISEASES, 1912.

WESTERN PROVINCE.

	_			_	_			*****					_	-	-	-				-	_	_	_
	Beri-beri.	Chicken-Pox.	Dysentery.	Enteric Fever.	Erysipelas.	Gonorrhoa.	Influenza.	Løprosy.	Malaria.	Blackwater Fever.	Measles.	Pneumonia.	Rheumatic Fever.	Septicemia.	Trypanosomiasis.	Small-Pox.	Syphilis, Primary.	Syphilis, Secondary. Suchilie Tertiane	Syphilis, Inherited.	Tetanus.	Tuberculosis.	Whooping Cough.	Yaws.
Lagos Ibadan Badagry Epe Aro Oshogbo Ondo	14 1 3 	88 4 40 	$266 \\ 56 \\ 12 \\ 4 \\ 24 \\ 12 \\ \dots$	2 		351 71 17 8 16 22 3	1 1 	35 1 2 	2,376 371 124 44 161 31 	5 1 1 	3 	39 14 1 	32 1 	-		9 14 1 5 	7 1 19 			2 30 . 4 . 1 . 1 . 1	36 12 1 		8 1 12
TOTAL	18	132	374	2		488	2	38	3,107	7	4	56	33	15		29	27	4		2 37	49	14	22
Total 1911	51	33	367			513		24	3,128	14	4	59			2	23	3	28.		2 28	104	28	5
						C	ENT	RAL	PR	ovi	NCE												
Warri Forcados Asaba Sapele Benin City Aboh Agbor Udi Okwoga Onitsha	8	57 16 3 116 108 108 173	$96 \\ 43 \\ 16 \\ 61 \\ 37 \\ 15 \\ 16 \\ 7 \\ 4 \\ 131$	····	3 1 	$172 \\ 218 \\ 19 \\ 36 \\ 37 \\ 33 \\ 73 \\ 16 \\ 18 \\ 80$		7 1 1 49	$\begin{array}{c} 616\\ 444\\ 74\\ 182\\ 86\\ 64\\ 174\\ 102\\ 55\\ 366\end{array}$	 3 1 		$ \begin{array}{c} 18 \\ 27 \\ 6 \\ 7 \\ 3 \\ 1 \\ 23 \\ 1 \\ 23 \\ \end{array} $	1 6 	1 2 1 1 	···· ··· ··· ···	···· ··· ···		35			1 7 1 2 1	··· 1 ···	4 15 15 18
TOTAL	8	474	426		4	702		. 63	2,163	10	2	89	7	6	2	15	22	39 .		4 3	51	2	51
Total 1911		487	344			562		10	1,770	2	6	104			2	13	32	16		8 2	31	69	49
							EA	STE	rn P	RO	VIN	CE.											
Abakaliki Afikpo Bende Bonny Brass-Akassa Calabar Degema Eket Ikom-Obubra Ikot Ekpene Itu Obudu Ogoja Okigwi Opobo Owerri TOTAL TOTAL 1911	··· 1 ··· 6 1 2 ··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··	2 7 3 2 1 474 45 20 43 19 1 4 622 635	3 55 3 2 6 34 237			23 222 31 32 14 125 48 21 119 57 24 7 59 49 86 38 755 570	 4 27	::2 :4 1 9 :1 3 :: :3 :23 7	67 80 350 67 242 296	1 1 6	1 1	$ \begin{array}{c} 1\\1\\\\4\\5\\1\\4\\\\2\\11\\4\\5\\5\\16\\5\\5\\118\\76\end{array}$	19 4 23 3 53	 1 1 23	···· ··· ··· ··· ··· ··· ··· ··· ··· ·	1 1 	2 6 2 1 1 1 10 7 1 43	37	1 5	1 1 3 4 2 2 2	5 1 6 1 1 4 1 4 5 5 5 5		14 2 11 7 8
1912GRAND TOTAL	36	1,228	1,037	2	4	1,947	29		8,194			263			154	52	921	150	15	9 44	155	27	163
1911GRAND			.,														1	1		1		1	_

N.B.-These returns for 1911 do not include the four stations of Northern Nigeria included in the Annual Medical Report for that year.

TABLE XI.

HELMINTHIC DISEASE-1912.

WESTERN PROVINCE.

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Trematoda.	Cestoda.	Nematoda Ascarides.	Trichocephalus Dispar.	Dracunculus.	Filminsis.	Strongylus.	Ankylostomiasis.	Oxyuris.	Insecta Chigres.	Myinsis.	Pediculi.
Lagos			 	60	369		174	1		2 30		16	2	1
Ibadan			 3	16	1,558		129	1 1 3 2	1	30	1			
Badagry	y		 	1	90		6	3					2	
Epe			 		30		2	2	1	1				
Aro			 	5	70		45			3			1	
Oshogb	0		 		36		12							
Ondo			 		28									
	TOTAL		 3	82	2,181		368	7	2	36	1	16	5	1
	TOTAL	1911	 	69	2,734		296	2		52	1	29		

CENTRAL PROVINCE.

										-	1	1	
Warri			 		5			8	 2				
Foreados			 	2	14	2	12	3	 25				
Asaba			 		24			2	 3				
Sapele			 		44		1	1	 55			1	
Benin City			 		12		4		 3	1			
Aboh			 		3	3	1	9	 2				
Abgor			 	3	36		12		 	2			
Udi			 				25		 44			1	
Okwoga			 	1	17		5		 2	1			
Onitsha			 		2 28		4		 8				
Tor	AL		 	6	383	5	64	23	 144	4		2	
Тот	AL	1911	 	22	418		46	13	 323		14		

EASTERN PROVINCE.

Abakalik	i		 		1		36							
Afikpo			2555	1.2.2.2			20		100.00		1		1	
Bende			 		1		1	1.33.75			1.000		19972	100
			 		5			7	***				••••	
Bonny		•••	 		3		12	i						
Brass Ak	assa		 							100				
Calabar			 	23	54		52	9		196			1	
Degema			 		1			2						
Eket			 							4				
Ikom Ob	ubra		 				13	2					1	
Ikot Ekr	ene		 	5	2	1	3	1			1			
Itu			 				1	1			1			
Obudu			 		10		13	2						
Ogoja			 		1		22							
Okigwi			 		7		5							
Opobo			 		14		5	5		10				
Owerri			 	1	10		10	35		15	28			
T	OTAL		 	29	109	1	193	65		225	31		3	
т	OTAL	1911	 	17	197		142	3		29	2	20	1	
T	OTAL		 3	117	2,673	6	625	95	2	405	36	16	10	1
Т	OTAL	1911	 	108	3,349		484	18		404	3	63	1	

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TABLE XII.

PRISONS-1912.

	Priso	n.		Average Prison Area per Prisoner.	Average Cubic Space in cells per Prisoner.	Average Ventilation Are in cells per Prisoner.
WESTER	N P	ROVIN	ICE:	sq. yds.	cub. ft.	sq. feet.
Lagos				46.5	533:7	7.1
Badagry				27.4	537.5	7.5
Epe				No wall round Prison.	382.4	5.8
Ikorodu				46.8	342.7	5.7
Oshogbo				118.2	455-6	3.5
Igbein (Al				44.3	400.0	4.2
Ibadan				25.1	280.8	3.6
						and the second second
CENTRA	L PI	ROVIN	CE:	cub, ft.		
Warri				21.2	217.4	4.1
Onitsha				42.3	433.8	6.8
Benin				41.4	267.6	2.8
Sapele				51.2	411.0	7.9
Foreados				122.5	507.7	3.2
Aboh				27.7	310.2	2.2
Asaba				29.4	547.4	1.8
Idah				35.8	252.9	1.0
Awka				16.7	172.6	0.36
Udi				20-6	205-0	0.6
Okwoga				32.0	121.2	0.57
fon				102.0	691.8	2.4
Ubiaja				42.6	401.5	9.2
	••••			23.7	380.4	0.3
Agbor				100000000000000000000000000000000000000		1000
Kwale				28.0	473.0	6.7
Ogwashi		•••		133-4	655-5	5-0
EASTERI	N PF	OVIN	CE :	sq. yds.		
Calabar				17.9	284.7	3.9
Afikpo				19.3	215.0	3.9
Degema				63.6	378.1	4.4
Opobo			100	18.5	573.8	5.5
Abak				40.0	415.7	12.6
Itu				23.6	247 7	8.8
Obubra				32.7	104.7	10.5
Ikom				37.5	256.5	
Obudu				144.0	880-0	
Ogoja				62-5	299.4	5.3
Abakaliki				84.0	565.4	4.1
Bende				13.3	202.8	
Aro-Chuku		••••		39-6	190.0	2.4
Ikot Ekpe	ne			32.0	164.8	1.9
Uyo				31.7	280.1	1.2
Eket				19.4	300.9	0.6
Bonny				22.6	636.5	3.7
Ahoada				25.0	420.1	7.4
Aba				39.1	301.5	1.3
Brass				.66-0	477-0	5.4
				38.5	338·8	6.3
Okigwi				00.0	990.0	0.0

TABLE XIII.

1,410

SPLEEN RETURNS, 1912.

DISTRICT.		100000000000000000000000000000000000000									
		0-2 years.	2-5 years.	5-10 years.	10-15 years.	15-20 years.	20-30 years.	30-40 years.	Over 40 yrs.	FOTALS.	Per- centages
VESTERN PROVINCE.										2023	K CAIPE
LEO	Number examined	17	12							29	
	%Normal %Slightly enlarged	41 %	41 % 59 %							12 17	41.5 58.5
	"Enlarged beyor d	10	00 /0								
	Costal Margin										
BADAGRY	Number examined	13	25	31		11	22	34		136	
	%Normal %Slightly enlarged	23 % 15 %	$20 \ \% \ 8 \ \%$	32 % 36 %		45 %	68 %	62 % 15 %		59 22	43 16·5
	%Enlarged beyond Costal Margin					55 %	in the second	23 %		55	40.5
		62 %	72 %		1000		20 /0	20 /0			40.0
SPE	Number examined %Normal	29	50 62 %	33	10 40 %	1 100 %				123 81	65-8
	%Slightly enlarged	72 % 24 %	36 %	73 % 27 %	60 %					40	$ \begin{array}{r} 65.8 \\ 32.6 \end{array} $
1.1	"Enlarged beyond Costal Margin	4 %	-2%							2	1.6
						10				501	
BADAN	Number examined %Normal %Slightly enlarged	64 64 %	$\frac{130}{52\%}$	161 61 %	$\frac{115}{72\%}$	$\frac{46}{93.5\%}$	8 100 %			524 341	65
	%Slightly enlarged %Enlarged beyond	/0	$52 \ \% 19 \ \%$	${61 \ \%}{24 \ \%}$	$\frac{72}{15}\%$,	81	65 16
	Costal Margin	36 %	29 %	15 %	13 %	6.5%				102	19
PROVINCE.	and the fact of		10	1.00			-				
Авон	Number examined	43	94	110	84	13	53			397	
	%Normal %Slightly enlarged	70 % 18·5 %	60 %	60%	65.5 %	38 % 46·5 %	62 % 26 %			246 85	62 22
	%Enlarged beyond					le construction de la constructi					1. All
	Costal Margin	11.5 %	9 %	25.5 %	20 %	15.5 %	12 %			66	16
AGBOR	Number examined	25	46	66	19		106	13	10	285 199	
	%Normal %Slightly enlarged	$\frac{88}{12}\%$	70 % 19 %	$\begin{array}{c} 73 \ \% \\ 24 \ \% \end{array}$	47 % 32 %		61 % 35 %	100 %	100 %	71	70 25
	%Enlarged beyond Costal Margin						1			15	
			11 %		1		- 4 %		***		5
BENIN CITY	Number examined %Normal	27	358	366	180	42 55 %	26 31 %			999 568	57
	%Slightly enlarged	33 % 52 %	56 % 22 %	54 % 27 %	74 % 15 %	55 % 26 %	42%			242	57 24
	%Enlarged beyond Costal Margin	15 %				19%	27 %			189	19
Forcados	Number examined	70	25	24	52	135	504	88	14	912	
	%Normal	6%	12% 64%	21 % 66 %	17 %	29%	24%	27 %		213	23 64
	%Slightly enlarged %Enlarged beyond	46 %	64 %	00%	08 %	66 %	66 %	64 %	50 %	584	
	Costal Margin	48 %	24 %	13 %	15 %	5%	10 %	9%		115	13
Окуода	Number examined	11	11	30	11	1	40	1		105	
	%Normal %Slightly enlarged	27 %	64 %	83 %	45.5 %	100 %	77.5 % 22.5 %	100 %		37 51	35 49
	%Enlarged beyond					1	100 10				1 dela
	Costal Margin	73 %	36 %	17%					***	17	16
Охітяна	Number examined	44	39	28	18					129	
	%Normal %Slightly enlarged	75 %	79%	68 %	78 %				***	97	75
	"Enlarged beyond Costal Margin		21 %	i and	22 %					32	25

TABLE XIII.—continued.

SPLEEN RETURNS, 1912.-continued.

						Aors	OF THOSE	EXAMIN	ED.			
DISTR	ICT.		0-2 years.	2-5 years.	5-10 years.	10-15 years.	15-20 years.	20-30 years.	30-40 years.	Over 40 yrs.	TOTALS.	PER-
CENTR PROVI	INCE										1	
SAPELE		Number examined %Normal %Slightly enlarged %Enlarged beyond	$25 \\ 27 \\ 5 \\ \%$	$46 \\ 19.5 \% \\ 28.5 \%$	$^{111}_{32} \ \%_{33} \ \%$	$^{85}_{51\%}_{28\%}$	$35 \\ 66 \\ 11 \\ \%$	67 % 16·5 %	$12 \\ 75 \% \\ 8 \%$		$375 \\ 143 \\ 102$	
	6.01	Costal Margin	47.5 %	52 %	35 %	21~%	23 %	16.5 %	17 %		130	35 9
Uы '	•••	Number examined %Normal %Slightly enlarged %Enlarged beyond	2 	$24 \\ \\ 12 \%$	93 49 % 12 %	$^{11}_{64\%}$		 	 		130 53 16	
		Costal Margin	100 %	88 %	39 %	18 %					61	47
WARRI		Number examined	6	10	1			2			. 19	
		%Normal %Slightly enlarged %Enlarged beyond	33·3 %								2	10.5)
EASTE: PROVI		Costal Margin	66.6 %	100 %	100 %			100 %			17	89-5
ABAKALI	ікі	Number examined %Normal %Slightly enlarged %Felenced hereard	8 12·8 % 87·5 %	3 	$11 \\ 9 \% \\ 36 \%$	5 60 % 	8 37·5 % 37·5 %	29 58 % 35 %	36 88 % 9 %		100 57 27	57 27
		%Enlarged beyond Costal Margin		100 %	55%	40 %	25 %	7%	3%		16	16
AFIKPO		Number examined %Normal %Slightly enlarged	$71 \\ 52 \% \\ 38 \%$	141 57 % 33 %	$168 \\ 62 \ \% \\ 27 \ \%$	$121 \\ 71 \ \% \\ 21 \ \%$	97 84 % 12 %	181 73 % 20 %	159 85 % 10 %		938 654 210	 70 22
	14	%Enlarged beyond Costal Margin	10 %	10 %	11 %	8 %	4 %	7%	5%		74	8 9
Bende		Number examined %Normal %Slightly enlarged %Enlarged beyond	$^{131}_{51\cdot 2\%}_{42\cdot 2\%}$	690 91 % 8 %	2,709 90 % 8 %	2,001 91 % 7 %	1,111 94 % 5·5 %	1,871 96 % 3·7 %	3,975 96 % 3·7 %		12,488 11,655 701	
		Costal Margin	6.6 %	1%	2%	2%	•5 %	•3 %	•3 %		132	1
Bonny		Number examined %Normal %Slightly enlarged %Enlarged beyond	$45 \\ 51 \cdot 2 \ \% \\ 42 \cdot 2 \ \%$	$^{44}_{52\cdot5}\ \%_{43}$	$25 \\ 42 \\ 52 \%$	36 50 % 39 %	16 44 % 44 %	$^{12}_{25\%}_{58\cdot3\%}$	4 100 % 		182 90 79	49 44
	111	Costal Margin	6.6 %	4.5 %		11 %	12 %	16.6 %			13	7 %
Brass		Number examined %Normal %Slightly enlarged	$18 \\ 72 \% \\ 17 \%$	$17 \\ 47 \% \\ 12 \%$	11 73 % 9 %	10 50 % 	3 33·3 % 	32 78 %	29 69 % 3·5 %		120 80 7	67 9
		%Enlarged beyond Costal Margin	11%	41 %	18 %	50 %	66·6 %	22%	27.5 %		33	27 5
Degema		Number examined %Normal %Slightly enlarged	21 10 % 57 %	31 52 %	45 9% 5 7 •7%	41 10 % 68 %	$^{46}_{13\%}_{74\%}$	95 17 % 67 %	349 54 % 44·2 %		628 220 335	35 53
		%Enlarged beyond Costal Margin	33 %	48 %	33.3 %	22%	13 %	16 %	1.8 %		73	12 9
Іком-Он	BUBRA	Number examined %Normal %Slightly enlarged	1 100 %	$21 \\ 19 \% \\ 5 \%$	$50 \\ 44 \ \% \\ 12 \ \%$	46 54·3 % 4·3 %	38 60·5 %	101 50 % 5 %	110 40 % 2 %		367 169 17	46
		"Enlarged beyond Costal Margin		76 %	44 %	41.3 %	39.5 %	45 %	58 %		181	49 %

TABLE XIII.—continued.

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SPLEEN	RETURNS,	1912contin	nued.
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					Ages	ор тно	SE EXAM	NED.			
DISTRICT.		0-2 years,	2–5 years.	5-10 years.	10-15 years.	15–20 years.	20-30 years,	30-40 years,	Over 40 yrs.	TOTALS.	PER- CENTAGES,
EASTERN PROVINCE —continued.		1									
IKOT ERPENE	Number examined %Normal %Slightly enlarged %Enlarged beyond	$^{14}_{36}\ \%_{21}$	$18 \\ 22 \\ 45 \\ \%$	$^{45}_{24}\ _{40}^{\%}$	$66 \\ 26 \ \% \\ 47 \ \%$	$^{22}_{27}_{36\cdot 5}\%$	5 100 % 	${}^{454}_{32}\%_{43}\%$	 	624 193 265	$31 \ 42 \ \%$
	Costal Margin	43 %	33 %	36 %	27 %	36.5 %		25 %		166	27 %
ITU	Number examined %Normal %Slightly enlarged %Enlarged beyond	$2 \\ 100 \%$	$15 \\ \\ 53 \cdot 2 \%$	$163 \\ 43 \ \% \\ 19 \ \%$	$60 \\ 35 \ \% \\ 14.9 \ \%$	$64 \\ 35 \% \\ 42 \%$	$118 \\ 52 \% \\ 36 \%$	$95 \\ 52 \% \\ 41 \%$	4 75 % 	$521 \\ 226 \\ 159$	$\frac{13}{31}\%$
	Costal Margin		46.8 %	38 %	50.1%	33 %	12%	7%	25~%	136	26 %
Okigwi	Number examined %Normal %Slightly enlarged %Enlarged beyond	$18 \\ 89 \% \\ 5.5 \%$	$21 \\ 86 \% \\ 14 \%$	$16 \\ 98.7 \ \% \\ 6.3 \ \%$	$56 \\ 68 \ \% \\ 16 \ \%$	$56 \\ 64 \ \% \\ 29 \ \%$	111 88 % 8 %	$^{114}_{70\%}_{25\%}$	 	392 300 67	 77 % 17 %
	Costal Margin	5.5 %			16 %	7 %	4 %	5 %		25	6 %
Орово	Number examined %Normal %Slightly enlarged %Enlarged beyond	$\frac{2}{50\%}$	$^{12}_{83\cdot 3\%}$	$^{4}_{25} \ _{25}^{\prime\prime} \ _{\%}$	 	$^{8}_{75\%}_{12\cdot5\%}$	$15 \\ 80 \% \\ 20 \%$	77 79 % 21 %	 	$ \begin{array}{r} 118 \\ 90 \\ 22 \end{array} $	 76 % 19 %
	Costal Margin	50 %	16.7 %	50 %		12.5~%				6	5 %
Owerri	Number examined %Normal %Slightly enlarged %Enlarged beyond	$^{193}_{76\%}_{20\%}$	$272 \\ 73 \ \% \\ 24 \ \%$	$505 \\ 73 \ \% \\ 20.5 \ \%$	$206 \\ 77 \ \% \\ 18 \ \%$	$269 \\ 81 \ \% \\ 17 \ \%$	$^{ 412}_{ 83\%}_{ 15\%}$	418 74 % 20 %	 	$2,176 \\ 1,674 \\ 414$	 77 % 19 %
	Costal Margin	4 %	3 %	6.5 %	5%	2 %	2 %	6 %		88	4 %
Western Province.	Number examined %Normal %Slightly enlarged %Enlarged beyond	123 58·5 % 15·5 %	$217 \\ 50.2 \% \\ 24 \%$	$225 \\ 58.7 \% \\ 26.2 \%$	$^{125}_{69.6~\%}_{18.4~\%}$	58 84·5 %	30 70-6 % 6-6 %	$^{34}_{61\cdot 8\%}_{14\cdot 7\%}$		812 493 160	
	Costal Margin	26 %	25.8 %	15.1 %	12 %	15.5 %	16.6 %	23.5 %		159	19-6 %
Central Province.	Number examined %Normal %Slightly enlarged %Enlarged beyond			47·8 % 29 %	460 56·5 % 27·6 %						37.3 %
	Costal Margin	34.4 %	25.4 %	23.2 %	15-9 %	11.1 %	9.3 %	8.8 %		642	19.2 %
Eastern Province.	Number examined %Normal %Slightly enlarged %Enlarged beyond Costal Margin	70.4% 23.1\%	76 % 17·3 %	81.5% 12.1%		83.5% 12.4%	85.6% 10.5\%	84 % 11·7 %	75 %		$\frac{82.6}{12.35}\%$
	Costar Margin	00%	10	01/0	00%	1 1/0	00 /0	10%	20 /0	010	0 00 %
SOUTHERN NIGERIA.	%Normal %Slightly enlarged %Enlarged beyond	55.1% 26.9 %	64·3 % 21·4 %	74.3% 15.8%	3,333 78.6 % 14 %	78.6 % 16.1 %	75.7% 19·1 %	$83 \% \\ 12.5 \%$	71.4% 25 %	17,360 3,713	$\frac{76\cdot1\%}{16\cdot2\%}$
_	Costal Margin	18%	14-3 %	9.9 %	7-4 %	5.3 %	5.2 %	4.5 %	3.6 %	1,744	7.7 %

TABLE XIV.

GENERAL SANITARY VOTE. (£1,000.)

				£	s.	d.	
Indents				272	7	10	
Transfers to Central and Eas	stern P	rovinces	s for				
Sanitary works				306	10	0	
Paid over to Municipal Secr	etary,]	Lagos		104	0	3	
Sanitary Labourers, Badagry	. (Co	ntinued	with				
approval from 1911.)				77	14	3	
Purchase of Bulls, Ibadan				30	0	0	
Sanitary Labourers, Ibadan				14	6	9	
Sanitary Inspector, Badagry	(Jany	.—May	15)	12	16	0	
Sanitary Labourers, Epe				59	3	1	
Sanitary labour, Oshogbo				1	7	0	
Sanitary works, W. Province				37	15	3	
Uniforms				19	10	3	
Tools for Sanitary work				19	12	9	
Freight charges					8	6	
Balance				44	8	1	

TOTAL

£1,000 0 0



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