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#### **Contributors**

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### SOUTHERN NIGERIA.



NO. 36 OF 1912.

Paper laid on the Table of the Legislative Council held on the 19th day of August, 1912.

SUBJECT:-

Annual Report on the Medical Department for the year 1911.

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# ANNUAL REPORT

ON THE

# MEDICAL DEPARTMENT

FOR THE YEAR

1911.



#### MEDICAL REPORT.

Principal Medical Office,

Lagos, Southern Nigeria,

18th May, 1912.

SIR,

I have the honour to submit for the information of His Excellency
the Governor and for transmission to the Right Honourable the
Secretary of State, the Medical Report on the Health and Sanitary
condition of Southern Nigeria for the year 1911, with the returns, &c.,
appended thereto.

I have the honour to be,

SIR,

Your obedient servant,

T. HOOD,

Acting Principal Medical Officer.

The Honourable

The Colonial Secretary.

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#### SOUTHERN NIGERIA.

# ANNUAL MEDICAL REPORT FOR THE YEAR ENDING 31st DECEMBER, 1911.

#### 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.
- 63 Medical Officers, one of whom is seconded as Medical Officer of Health to the Lagos Municipal Board and
  - 4 Native Medical Officers.

The following changes have taken place on the staff:-

- Dr. H. W. H. Strachan, c.m.g., Principal Medical Officer, retired on pension 9th September.
- Dr. W. H. Langley, c.m.g., Principal Medical Officer of the Gold Coast, appointed Principal Medical Officer of Southern Nigeria September 11th and assumed duty on September 13th.
- Dr. F. G. Hopkins, Deputy Principal Medical Officer, acted as Principal Medical Officer from April 20th (Dr. Strachan having proceeded on leave) to September 12th and left for Accra on September 21st on promotion to the post of Principal Medical Officer of the Gold Coast.
- Dr. T. Hood, Senior Medical Officer of the Gambia, promoted Deputy Principal Medical Officer of Southern Nigeria, vice Dr. Hopkins, and assumed duty December 8th.
- Dr. J. A. Clough was transferred to the Gold Coast on promotion as Senior Medical Officer on 29th November.
- Dr. J. W. Collett was transferred to Sierra Leone on promotion as Senior Medical Officer on 11th December.
- Dr. H. S. Coghill, Medical Officer, who was seconded 17th August, 1909 while holding the post of Demonstrator in the London School of Tropical Medicine, was appointed Assistant at the Medical Research Institute at Lagos 20th September.

#### RETIREMENTS.

Drs. E. J. Kelleher and R. L. Roe retired on pension through ill-health.

#### RESIGNATIONS ETC.

Drs. J. W. Archibald, C. S. Thompson, W. F. Roach, J. G. Copland and O. G. F. Luhn.

#### APPOINTMENTS.

Dr.	L. H. Booth		4th January.
,,	A. Hipwell		4th "
,,	E. L. Sieger	***	4th ,,
,,	A. Hutton		3rd May.
,,	W. M. Woods		21st June.
,,	R. H. Brierley		16th August
,,	E. C. Braithwait		6th September.
,,	H. R. M. Ferguson		27th ,,
,,	W. I. Martyn-Clark		1st November.
**	E. J. Wyler		1st "

During the year 16 Medical Officers were granted extensions of leave varying from 3 months to a week involving in the aggregate nearly two years loss of service in the Colony. I draw attention to this as the staff of Medical Officers is barely sufficient for all stations and in consequence of the extensions of leave the Medical Department has been greatly inconvenienced by the shortage of Medical Officers.

#### EUROPEAN NURSES.

With a staff of 17 the hospitals at Lagos, Calabar, Warri and Onitsha were provided with Nurses.

A similar provision for the Hospital at Ibadan is under consideration. Their duties are frequently very trying and arduous but I am glad to report that no serious illness occurred amongst the European Nurses during the year and that their services are greatly appreciated by the Medical Officers-in-charge and by patients of all classes.

#### NATIVE STAFF.

The staff of Dispensers and Nurses is difficult to maintain at the proper level mainly on account of the scarcity of eligible candidates to fill vacancies.

There are 95 Dispensers and Nurses on the Native Staff and at the end of the year there were twenty-three vacancies which will be filled in the course of time by the Dispensers and Nurses now in training.

The Clerical Staff of the Department has had to cope with a great amount of work during the year; correspondence, statistics and returns are all on the increase and, if medical records are to be kept as carefully as they should be, it will soon be necessary to consider the appointment of an European Statistician for the Medical Department.

FINANCIAL.
Statement of Revenue for the year 1911

	Head and Sub-heads.	Eastern.	Central.	Western.	Total.
	Head 4.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
5	Hospital Fees and receipts	490 8 11	52 4 17 8	636 10 8	1,651 17 3
51	Medical Staff on Railway Construc- tion—refund	-	in-	1,393 9 5	1,393 9 5
					£3,045 6 8

ESTIMATED REVENUE.

Statement of Expenditure for the year 1911.

	Estimate.	Actual Expenditure.
Medical Department including Personal emolument of Head-quarters Sanitary Branch	= 0 = 0 =	£ s. d. 53,523 18 11
Sanitary	5,003	5,378 12 8
	£64,510	£58,902 11 7

In addition to the above expenditure Native Court Funds have been utilized for the purposes of sanitation and vaccinations in the Central and Eastern Provinces. £1,324 2s. 8d. was spent on sanitary work and £577 9s. 11d. on vaccinations in the Central Province alone from this source. Details from the Eastern Province are not to hand.

#### II.—PUBLIC HEALTH.

Except at Lagos and Ebute Metta Vital Statistics are unreliable and it is only possible to state that the Public Health in the Colony and Protectorate has been fairly good during 1911.

In Lagos the incidence of infant mortality is high and deaths connected with pregnancy are of too frequent occurrence. The establishment of a Lying-in Hospital is now under consideration and one can only hope that sound principles of infant hygiene will, in the course of time, spread and that the training of midwives will become general.

For Vital Statistics at Lagos and Ebute Metta see page 9.

Tuberculosis is apparently of more frequent occurrence in Lagos than elsewhere in the Colony. Land is valuable in the Town and congested areas are the result; the new Building regulations, now in force, will prove useful in remedying this evil.

Malaria is widespread throughout the whole of Southern Nigeria and it is estimated that quite 90% of the cases are of the Aestivo-Autumnal variety.

Blackwater Fever.—25 Europeans and one Syrian suffered from blackwater fever in Southern Nigeria during 1911. There were 17 recoveries and 9 deaths. Eleven officials contracted the disease and 7 recovered. Five cases occurred amongst the subordinate European staff of the Railway.

Although *Trypanosomiasis* is probably endemic in the Niger Delta only five cases have come under observation during the year and two of these were certainly imported from Fernando Po. As soon as cases are discovered they are segregated in fly—proof rooms.

Yellow Fever has not been observed during the year. A suspicious case of fever in a native at Forcados suggested yellow fever in a mild form; the Patient recovered and no similar case occurred.

Beri-beri patients are seen from time to time in Lagos. The majority of these patients are Kroomen and not natives of the Colony Kroomen are for the most part engaged on ships or by the merchants as coopers and labourers and receive rations of rice. They are not accustomed to living on yams, the staple food of the natives of Southern Nigeria. The disease in their case probably results from the consumption of inferior imported rice.

Towards the end of the year an outbreak of *Epidemic Dropsy* occurred in the Abeokuta Prison 25 cases and 9 deaths. Whether this outbreak was a form of Beri-beri it is difficult to say but in none of the patients was there any marked irregularity of the heart, or loss of knee jerks or hyperaesthesia of the calf muscles. Oedema of the legs was a late sympton. The exciting causes of the disease were probably overcrowding and unsuitable dieting as immediate improvement took place on removing the patients to the sea shore and providing them with a generous meat and fish diet. Prisoners receive a rice ration three times a week but preparations of yam form the bulk of their diet.

Small-Pox fetish worship still obtains in parts of Southern Nigeria and in spite of the disease appearing in several small villages there was no great epidemic. The disease manifested itself mostly at Ibadan and in the neighbourhood of Northern Nigeria.

Chicken Pox has been epidemic at Warri, Onitsha, Calabar and Ikot-Ekpene.

The number of people infected by Ankylostomes is extremely high—probably about 75% but fortunately the infection does not appear to give rise to serious symptoms. Most of the serious cases have been observed among prisoners and it seems more than probable that prison life lowers the system and causes symptoms of the disease to become more pronounced.

Patients suffering from Guinea Worm are fairly common in Southern Nigeria. In the Western Province the disease is most prevalent.

Bilharzia Hæmatobia appears to be endemic in the Western Province and is a disease well known to the natives as Dog's Gonorrhoea.

Vaccinations.—The total number of persons vaccinated during the year was 166,394 being an increase of 30,747 over 1910.

There are 23 Native Vaccinators employed in the Central Province who are paid salaries varying from £9 to £36 per annum from Native Court Funds.

In the Western Province there are 32 Native Vaccinators who receive two shillings a day from Colonial Funds.

Vaccinations in the Eastern Province are carried out for the most part by Medical Officers and two Native Officials.

The following table shows the distribution of vaccinations performed. It is not possible to give the actual number of successful cases on account of the difficulties encountered by the Vaccinators in their work. Only successful cases are recorded.

	19 Tot	10. tal.	1911. Total	
	Vaccinated.	Successful.	Vaccinated.	Successful.
Western Province	75,691	43,981	83,162	52,777
Central Province	12,902	6,935	35,123	22,431
Eastern Province	47,054	37,663	48,109	38,449
	135,647	88,579	166,394	113,657

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

Total number of Officials resident				1,372
Average number resident	***		1 * *	595
Total number on Sick List				461
Total number of days on Sick List				4,525
Average daily number on Sick List				12.4
Percentage of Sick to average num	ber re	esident		77.4
Average number of days on Sick Li	st for	r each p	atient	9.8
Average Sick time to each resident				7.6
Total number invalided				41
Percentage of Invalidings to total r	eside	nts		2.9
Total Deaths				9
Percentage of Deaths to total reside	ents			.6
" " " average nu	mbei	reside	nt	1.5
Number of cases of Sickness cor	tract	ted awa	ay from	n
residence			Not	Known

#### Invaliding of European Officials 1911.

#### CAUSES.

#### Western Province.

Anæmia and Debility following Blackwater Fever.

2. Epilepsy.

Anæmia and General Weakness after an attack of continued

4. Debility and Anæmia the result of Chronic Dysentery.

- Malarial Debility following on concussion, the result of a fall from a horse.
- 6. Extreme Anæmia and Furunculus.
- 7. Blackwater Fever (the result of)
- 8. Gastritis.
- Phthisis.
- 10. Anæmia, Insomia and generally run-down condition due to inflammation of suboccipital glands resulting in an abscess.
- Enlarged inguinal and retroperitoneal glands and Anæmia.
- 12. Intra-Thoracic Swelling causing persistent pain in the thorax.
- Cerebral instability at intervals-probably the effect of exposure to sun.
- 14. Anæmia.
- Central Scotoma and Incipient Neuritis of both legs.
- 16. Gastritis and Anorexia.
- 17. Muscular Rheumatism following on an attack of intermittent
- 18. Anæmia following on a prolonged attack of Fever.
- 19. Effect of recent sun Traumatism.
- 20. Anæmia after an attack of Rheumatism.
- 21. Anæmia following an attack of Blackwater Fever.

#### RAILWAY EXTENSION OFFICERS AND OFFICERS OF THE OPEN LINES SERVING UNDER AGREEMENT.

- 1. Nervous Break-down.
- 2. Anæmia and Debility.
- 3. Oedema of Legs, Shortness of Breath and Weak Heart.
- 4. Heat Exhaustion.
- Anæmia and General Debility.
   Results of Blackwater Fever.
   Results of Blackwater Fever.

#### CENTRAL PROVINCE.

- 1. Duodenal Ulcer.
- 2. Facial Paralysis with constant neuralgic pains.
- 3. Anæmia, Debility and Chronic Rhinitis.

#### EASTERN PROVINCE.

- 1. Boils and General Debility after Dysentery.
- General Breakdown due to Chronic Dyspepsia, Chronic Dysentery and Enlarged Liver.
- 3. Sub-acute Rheumatism, Anæmia, General Debility and Heart Murmur.
- 4. Delusion Insanity.
- 5. Nervous Breakdown.
- 6. Effects of Exposure to heat.
- 7. Results of Blackwater Fever.
- 8. Results of Blackwater Fever.
- 9. Mental Breakdown and Filariasis.
- 10. Suspected Liver Abscess

Estimated Population 1011

#### Deaths of European Officials, 1911.

#### CAUSES.

Western Province and Lagos Government Railway Extension.

Blackwater Fev	er				4
Meningitis (Mal	aria)			 	1
Heart Disease				 	1
Accident				 	1
CENTRAL	Prov	VINCE.			
Nephritis				 	1
Murdered				 	1
Eastern	Prov	INCE.			Nil.
		7	Cotal	 	9

7 057 000

#### GENERAL POPULATION.

Vital Statistics.—Registration not being compulsory, reliable facts cannot be quoted.

Estimatea 1 op	men.	1911		1,0	31,900.
		Natives.	Europeans.	Asiatics	Others.
Western Province		2,151,483	790	63	440
Central "		2,407,664	430	3	21
Eastern ,,		3,296,602	428	33	26
224		-		_	
Total		7,855,749	1,648	99	487

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.

# LAGOS.

								Deaths.					Total Still-	
Year.	Total Births.	Birth rate per 1,000.	Total Deaths.	Death rate per 1,000.	Under 1 year.	Rate per 1,000.	Between 1 and 2 years.	Between 2 and 3 years.	Between 3 and 4 years.	Between 4 and 5 years.	notes bears. 1,000.	1,000.	burths not included in Return.	Estimated Population.
6061	2,312	43.3	1,975	37.	729	13.6	135	90	52	49	1,055	19.4	155	53,299
0161	2,389	44.2	1,937	35.8	77.4	14.3	78.	19	10	11	1,011	18.7	123	53,986
1161	2,430	39.8	1,873	30.7	692	11.3	74	54	38	31	889	14.5	132	61,000

# EBUTE METTA.

7,417	8,104	12,000
21	17	23
14.6	14.3	9.6
109	116	116
01	কা	7
1	7	ଚୀ
11	1	4
12	20	12
11.1	10.2	7.5
88	83	91
38.2	10.1	26.4
284	325	317
35.5	32,3	24.
26.1	262	288
6061	0161	1161

#### LAGOS, 1911.

No. of deaths of Children under 5 years of age	889
Percentage of deaths of Children under 5 years to total	
number of deaths	47.4
Death rate of Children under 1 year per 1,000 births	284.7
EBUTE METTA, 1911.	
No. of deaths of Children under 5 years of age	116
Percentage of deaths of Children under 5 years to total	
number of deaths	36.5
Death rate of Children under 1 year per 1,000 births	316

# III.—SANITATION BY DR. A. PICKELS, SENIOR SANITARY OFFICER.

The year 1911 has, I am glad to say, been one of distinct progress in Sanitary Work in all parts of the Colony and Protectorate. At outside Stations, matters are being considered from the standpoint of Sanitation which were never so considered before. Executive Officers are taking much greater interest in the Sanitary Condition of their Stations and the Towns in their Districts and Medical Officers are receiving much more assistance in all matters pertaining to it.

In the chief centres and large Towns these changes are of course more in evidence, the rate of progress is increasing and the difference in the present condition of these places to what it was a few years ago is very marked indeed.

#### Administration.

- 2. At the beginning of the year I was on leave and during that time Dr. Laurie, Sanitary Officer, performed the duties of the Office. While away, I was favoured in being allowed to visit one of the main haunts of Yellow Fever in Brazil, where it was my good fortune to see a number of cases of that disease, and then to proceed to Panama and Cuba where I saw the means which had been adopted in combating it and clearing it out of places in which the population had previously been decimated by the affection. The information gained during that time has been, and will be, most useful in my work here.
- 3. I returned from leave on June 30th. Dr. Laurie, who was considerably overdue and had been good enough to wait for my return, left for England on July 7th and did not return before the end of the year.

During my absence Dr. Mackinnon acted as Junior Sanitary Officer from February and continued to do so after Dr. Laurie went away; when he in turn went on leave, Dr. Beatty continued the work till the end of the year.

4. During the year all the places in the Western Province together with the Stations and Quarters etc. on the Railway Line up to Jebba have been visited by the Sanitary Officers on one or more occasions; advice was tendered on sanitary matters and arrangements, and Reports sent in.

In the Central Province several visits have been paid to the Towns on and near the Coast but unfortunately it has not been possible to get up the river to Onitsha and other places.

In the Eastern Province, Bonny and Opobo were visited, with a view to making a more extended tour to Calabar and up the Cross River, but unfortunately the journey had to be curtailed and I was not able to leave Lagos again to continue it until the end of the year.

During the latter half of 1911 there was a large amount of work in and around Lagos which had to receive attention and which prevented me travelling about as much as I should have wished. As it is considered desirable that one of the Sanitary Officers should remain either at Lagos or within very easy reach, it is not always possible to get away to the more distant parts of the Protectorate.

#### ESTIMATES.

5. The Estimates for Sanitary Work for 1912 were prepared in the Medical Office on the old lines and sent in before I arrived but later the Principal Medical Officer put forward the request that money be voted for three European Sanitary Inspectors, two of whom would always be in the Colony. It was proposed that their duties should be mainly in Lagos but that they would be available for work in other places, if required, and if they could be spared. This request met with the approval of His Excellency, the money was arranged for and the men should arrive during 1912.

On my return from leave I found that £1,000 bad been voted in the Estimates for Sanitary Work outside Lagos and of this various sums were spent on the large towns, Bonny, Warri, Forcados, Opobo, Badagry, Ibadan etc., and some very necessary work done. Indents also were sent to England for appliances for general sanitary purposes.

As however I was able to get away so little during the early part of my tour the whole sum was not expended but this, when there is so much work to do, will not be the case again.

Attached is a statement showing where and for what purposes the money was spent.

In addition a sum of £960 was issued under Special Warrant for Anti-Mosquito work in Lagos only, and this was disbursed by the Medical Officer of Health on the lines on which the work was started in 1910.

A Special Warrant for £60 was issued to cover necessary expenses at the Quarantine Station and was all expended.

A sum of £590 was also issued under a Special Warrant for the carrying out of a small scheme of Sanitation at Ibadan, in the proximity of the Station, but unfortunately the work could not be put in hand before the end of the year so that none of the money was spent. An application was therefore sent in before the end of December asking that the money might be re-voted as early as possible in 1912.

#### ORDINANCES, ETC.

- 6. The following Ordinances, Orders and Rules have been passed and have come into force during the year viz:—
  - 1. The White Phosphorus Matches Prohibition Ordinance.
  - The Destruction of Mosquitoes (Amendment) Ordinance.
     (This gives a more full definition of the word "Premises").
  - 3. The Building Lines Ordinance.

#### Orders in Council.

- Under the Births, Deaths and Burials Ordinance. (Form of Death Certificate).
- Under the Births and Deaths Registration (Protectorate) Ordinance.
   (Form of Death Certificate).

- 3. Under the Towns (Regulation) Ordinance.

  (Application of the Ordinance to certain specified)
- places).
  4. Under the Prisons Ordinance.

(Part of the Leper Asylum, Yaba, declared to be a Prison).

- Under the Infectious Diseases Ordinance. (Trypanosomiasis declared an Infectious Disease).
- Under the Ordeal, witchcraft and Juju Ordinance.
   (Invocation of Chuku or the Long Juju and of Obonorio or Obonorie forbidden).
- Under the Prisons Ordinance.
   (Old Isolation Hospital at Opobo declared a Prison).
- 8. Under the Ordeal, Witchcraft and Juju Ordinance.

  (Invocation of Iffallum prohibited)

  (Invocation of the three above-mentioned Jujus involves the sacrifice of human life).
- Under the Towns (Regulation) Ordinance.
   (Application of the Ordinance to Benin City and Siluko.
- Under the Towns (Regulation) Ordinance.
   (Application of the Ordinance to Degema and Abonema).
- Under the Destruction of Mosquitoes Ordinance.
   (Application of the Ordinance to Koko Town).

#### Rules in Council.

1. Under the Quarantine Ordinance.

(Any duly Licensed Pilot is included under the term "Visiting Officer").

2. Under the Towns (Regulation) Ordinance.

(Definition of "Streets" and "Carts" and Rule as to the condition of the latter).

#### REPORTS, ETC.

7. During the year a large number of Reports, &c., have been made on various matters bearing on Sanitation, Towns, Buildings, Sites, Prisons, Mosquito proofing, etc, which have been forwarded with recommendations in the usual way.

#### PREVENTIVE MEASURES.

#### Insect-borne Diseases.

8. Anti-mosquito work.—This most important work, which was initiated at the instance of Sir Rubert Boyce, has been carried on throughout the year with considerable energy.

In Lagos especially, many people have been engaged in this crusade and a good deal of money spent. As everyone admits, wherever the work has been prosecuted with vigour, there has been a marked decrease in the number of these insect pests and therefore a diminution in the liability to contract Mosquito-borne Diseases.

The Returns attached are not complete for the whole year as in some places no work was recorded during the first Quarter and in others a Medical Officer was not always in residence and there was no Sanitary Inspector to carry on.

It will be noticed that the number of Receptacles with Larvæ in houses where Larvæ were found is now, in the majority of instances, barely above one, showing that much greater care is being exercised than formerly.

House guttering is a common and very troublesome breeding place as shown by the number of Larvæ which reach Mosquito-proof tanks. Although at first it may be put up well and apparently satisfactorily, the supports are usually so far apart that sagging soon occurs and quite double the number are required.

Tanks are unfortunately essential in most places so that guttering is a necessity but special precautions should be taken in the fixing. Puncturing, although a help, does not give complete protection, probably, partially at any rate, on account of the way it is carried out.

At Burutu the Niger Company is using adjustable supports so that any part can be easily and quickly raised or lowered as becomes necessary.

Altogether over 600,000 inspections of houses have been made and in 68,450 instances Larvæ were found, which gives a Mosquito Index of III.

In Lagos the Acting Sanitary Officer made a number of independent observations on the frequency with which Larvæ were found and obtained results similar to those reported by the Inspectors. Although here, the Mosquito Index is very considerably less than it used to be, it does not come down in the way it should, considering the amount of work done and money spent. This I largely attribute to the carelessness of the people in the matter and this again results, in my opinion, from the method of administration of the Ordinance for the Destruction of Mosquitoes, for the following reasons viz:—

a. The delay which exists between the occurrence of the offence and the hearing of the case; an interval of two months frequently intervening. On account of this delay it is found impossible to serve about a quarter of the Summonses obtained.

In all 1,150 offences were taken up under this Ordinance and Fines to the amount of £207 1s. 10d. were imposed.

789 Fines were imposed (each being 5/, except in 25 cases).

301 Summonses could not be served.

- 41 Persons were cautioned.
- 6 Prosecutions were withdrawn.
- 3 Cases were dismissed.
- 10 Defendants did not appear.

At the end of December, there were 123 Cases waiting to be heard, the earliest offence dating from November 21st, and the first batch of these was not heard till January 26th. At the present time there are between 300 and 400 Cases waiting.

b. The inadequacy of the Fine imposed.

When at first cases were taken under this Ordinance a fine of 5/ was imposed and now, after 18 months, it is still the same, and even yet it is the custom of the Magistrate not to punish unless two previous occasions of offence can be proved.

On a second prosecution (that is at least the fourth offence) the fine imposed is 7/6.

Until some method having more of a deterrent effect is adopted (the excitement and eclat attached to a case at Court being often appreciated at a cost of only 5/) I doubt if the Mosquito Index will reach a much lower figure.

At Badagry special steps are being taken. An Anti-mosquito gang has been started and the Index for the fourth Quarter of the year shows a much greater improvement than would have resulted simply from the change of the season.

At Aro for some reason or other the Index is maintained at a very high figure and calls for enquiry.

Ibadan.—Here the records are not of much value as yet; none of the Colonial Sanitary Ordinances apply and, although there is no means of training Inspectors, objections are raised to men being sent from elsewhere.

At Warri good work is done as the low Index shows.

Forcados is a place which requires much attention otherwise there would be a rapid return to old conditions.

The Indices at Sapele and Benin City unfortunately show a tendency to rise, especially at the latter place.

In the Eastern Province work is carried on with good results in all the large Coast Towns, Calabar, Bonny, Opobo, Degema, &c, and improvement is universally recognized, but in the up-country Stations the opportunities for observation and work are often small and irregular and the records generally incomplete.

#### OILING.

9. Oiling of pools, drains, wells, tanks, canoes, etc, has been carried on throughout the year but nowhere to any extent except in Lagos, which is also the only place where mechanical sprays have been obtained.

#### BARRELS.

10. The Mosquito-proofing of Barrels is still carried on. This form of water container is much more commonly used in Lagos and Forcados than in any other towns; at the former place 365 were rendered mosquito proof, most of which were also fitted with taps.

#### RECLAMATION, ETC.

11. Reclamation and Filling-in is being carried on wherever necessary and possible, either by the Pump Dredger, Manual Labour or by means of the burnt material from the Refuse Destructors, and a large amount of very necessary work has been done.

In Lagos the Dredger has done a considerable amount of reclamation and raising in the Kimberly Swamp but unfortunately the piping was taken up before the work was complete. At the time it was stated the remainder would be finished by means of hand labour but up to the present this has not been done.

At the back of the Town filling in has been continously proceeding with the residue from the Destructors, in fact over 20 acres have been reclaimed and converted into good ground by this means. Parts also have been raised by sand dumped by manual labour so that altogether a great change for the better has been brought about.

At Forcados a small Pump Dredger has been working for some time and has made considerable improvement but the land has not been raised high enough, to allow for sinking, before buildings have been erected. This small Dredger has also done work at *Bonny* and reclaimed ground from the swamp behind the Marine Beach. On it Quarters have been erected and Workshops are being put up.

At Opobo public and private enterprise are working with great advantage but here it all has to be done by manual labour.

#### Mosquito-proofing.

12. Mosquito-proofing. This most important method of protection against and prevention of Insect-borne disease does not make very rapid progress in public favour and especially is this noticeable in the Eastern Province. In Calabar there are only two mosquito-proof rooms used as such—these being in the houses of Medical Officers—and a mosquito-proof house is not to be found.

In the Western and Central Provinces more advantage is taken of this means of protection and progress is gradually being made, although not in all cases without objection being raised.

It is not always easy to induce the occupants of the houses, where mosquito-proof rooms are provided, to use them as such or to take an adequate interest in the condition of the gauze itself so as to obtain the greatest benefit and the smallest amount of disadvantage.

His Excellency Sir Walter Egerton encouraged the adoption of mosquito-proofing and directed that the last few houses he decided to build should be made mosquito-proof throughout, and issued instructions with that object in view.

I have been very glad indeed to note that in the Rivers some of the Merchant Firms have imported a number of portable Mosquito-proof Rooms for their Agents and the Assistants employed in the Factories. These are put up in the bedrooms and are used as sleeping apartments. From the enquiries I have been able to make no objections are raised to them, in fact they are very greatly appreciated and are considered a vast improvement on the old Mosquito Net. This, it should be noted, is by the youngest members of the community and by those who usually have had the reputation of being the most reckless in regard to the protection of their health. To my mind it rather indicates that the objections usually raised are more imaginary than real.

The fact that neither Sanitary Officer has Mosquito-proof Quarters, nor even a Mosquito-proof Room, rather places them at a disadvantage in recommending this method of protection.

#### QUININE.

13. Quinine Prophylaxis. Quinine is still taken in large quantities as a prophylactic and the tendency seems to be in favour of a regular daily dose rather than a large dose once or twice a week. From records kept, I understand that \(^3\)4 of the amount of Quinine issued for prophylactic purposes is taken by Natives and that with them the practice is steadily growing in favour.

The increase in the amount issued during 1911 is very marked as following figures show:—

			1910.	1911.	Increase.
Western	Province	e	1,206,000	1,530,100	324,100
Central	,,		140,532	229,963	89,431
Eastern	,,	***	400,671	586,384	185,713
Tota	al Grains		1,747,203	2,346,447	599,244

#### PLAGUE.

14. Anti-plague measures have been continued but not quite so vigorously as might have been done with advantage.

During the year 12,365 Rodents have been destroyed in Lagos which shows an average of 34 a day, but, considering the number which are killed and thrown into the Streets, this is insufficient.

The Medical Officer of Health is obtaining a further supply of traps and more energetic action is to be taken.

#### Malaria and Blackwater.

15. I attach Tables showing the number of cases of Malaria and Blackwater Fevers during the last three years in each of the three Provinces and in the chief town of each one.

In looking over the Returns from Lagos, Warri and Calabar it will be noticed that in those from the two latter places a marked decrease is noticeable in the number of cases of Malaria affecting Europeans and that in Calabar the same is observed among the Natives.

As regards Blackwater there has been no case arising in an European in Calabar itself during the last three years, although an Asiatic living in the Native Town has succumbed to an attack of that disease and two other cases occurred in places not very far away. The ample area of the Reservation, the large amount of clearing and the Anti-Mosquito work all appear to be conducing to these results.

In spite of the fact that the total number of cases of Malaria has increased in Lagos and Warri it must not, I think, be concluded that the number of fresh infections has gone up.

It is practically impossible to obtain the total number of cases of Fever which occurs in Europeans as there is only a record kept in regard to Government Officers, and, among these also, slight attacks, probably only relapses, occur which are never seen on the records nor possibly even by a Medical Officer.

Amongst the Mercantile community no records whatever are kept.

In Blackwater Fever all cases come under medical observation and definite records of their numbers are obtainable.

#### TRYPANOSOMES.

16. Trypanosomiasis. Although the Tsetse Fly is so numerous and widely distributed in the Eastern and Central Provinces, cases of human Trypanosomiasis coming under observation are very few in number, there being only five in all recorded during the year.

One European Officer who had been travelling in a Tsetse country and who left the Colony at the end of 1910 has been reported to be suffering from the affection.

Regular examinations of the blood of Officers stationed or travelling in Tsetse Districts might with advantage be made every three or six menths.

#### FILARIAE.

17. Filariasis.—Only 22 cases of this disease have come under observation in the whole Colony during the year.

Apparently the liability to infection is not very great but if it were possible for observations to be made—which would take much time—in different centres as to the prevalence of the affection we should be able to obtain a much better idea as to what the danger really is.

Several Europeans in the Colony are known to harbour the Filaria Loa with, apparently, very little inconvenience to themselves.

#### EPIDEMIC DISEASE.

18. Epidemic Disease.—Under the Paris Convention there have been several outbreaks of Infectious Disease reported during the year in Ports on the Coast and elsewhere with which Lagos is in more or less direct steamer communication.

Cholera existed at Madeira when the year came in and Yellow Fever has several times been declared at different places on the Coast viz:—

Dakar. Once. (November).

The Gambia. Three times. (May, July & November).

Sierra Leone. Once. (July).

Accra. Twice. (May & November).

Although at all times careful inspection is made of all Coast passengers arriving, yet, on each of the above occasions, special measures were immediately taken to prevent the introduction of the disease into the Colony or Protectorate, fortunately with success, and no case has come under the observation of any of the Medical Officers which has aroused their suspicions of either of the above affections, and been reported to the Sanitary Office. On one occasion when Yellow Fever had been declared it was considered advisable to isolate the Native Passengers from one of the steamers at the Quarantine Station, but after detaining them the necessary period it was found that all were free from the disease.

#### PLAGUE.

19. There has been no resuscitation of the Plague Epidemic on the Gold Coast and no cases have occurred here to suggest the presence of the disease.

#### ENTERIC FEVER.

20. Enteric Fever and Cholera.—No Patient has been reported suffering from Enteric Fever and as far as we are aware Cholera has been no nearer than Madeira.

#### GENERAL DISEASES.

21. From the ordinary General Infectious Diseases which take on an epidemic character, the Colony and Protectorate has been very free and no report of any outbreak has been received in this Office.

#### Varicella.

22. Varicella.—A large number of cases of Varicella have occurred in Warri, Onitsha, Calabar and Ikot Ekpene, all of a very mild nature.

When I visited Warri an Epidemic of the disease had broken out in the Prison and in an Institution of this character, allowing under two square feet ventilation area, 15 square feet of floor area in the Cells and 14½ square yards of general Prison area per prisoner, it is not surprising a large number were affected. At Ikot Ekpene practically all the cases recorded occurred at the Prison; at Onitsha two-thirds and the same Institution at Calabar was responsible for one-third of the number which came under observation in that town.

#### SMALL POX.

23. Small Pox occurs sporadically in most of the places here and occasionally, in Towns in out-lying Districts, takes on and epidemic character, partly, in some cases it is to be feared, by artificial means on the part of the Small Pox Juju Priests. The Prohibition of the Worship of the Small Pox Juju in 1907 has been of considerable effect in the main towns, many Priests have been compelled to remove, the places of worship have been closed and in some instances the Priests themselves have been heavily fined.

#### VACCINATION.

24. Vaccination is a matter which is directed by the Principal Medical Officer and on which I have no information but, as far as my observation during inspections goes, the number of children efficiently protected is not as large as I had expected to find. Ibadan is, I believe, almost the only place where there are Vaccinators and where reliable inspection is carried out as there although the men receive a monthly salary yet in addition there is a bonus on each successful case produced for inspection, the size of which varies with the efficiency of the operation.

#### DYSENTERY.

25. Dysentery.—The amount of Dysentery existing still continues large and presumably the numbers will remain high in Lagos until we obtain the pipe-borne water supply, although it may be remarked that the number of cases, in proportion to size, is not much greater in Lagos than in Calabar with its much better service.

#### TUBERCLE.

26. Tubercular Disease.—More cases of Tubercular Disease have come under notice in Lagos (Municipal area) than elsewhere. The Returns show that 92 cases were treated in that town, of which 18 occurred in the Prison.

#### VENEREAL DISEASE.

27.—Venereal Diseases.—These account for a large proportion of affections of an Infectious nature.

#### HELMINTHIC DISEASES-TAENIAE.

28: Taeniae. The cases of Tape Worm which have been observed are few in number, certainly the majority which I have seen have been in Syrians and Germans and not in the mainly vegetable-eating Native. The most common variety observed is the Taenia Solium.

#### TRICHINA.

 Trichinosis. No case of this disease has ever been known in the Colony.

#### ASCARIS LUMBRICOIDES.

30. Ascarides. Ascaris Lumbricoides is extremely common, especially in the large towns, and this is not a matter for much surprise.

The figures in the Table only indicate the numbers treated and therefore only represent a very small proportion of the persons harbouring the parasite.

#### BILHARZIOSIS.

31. The cases of Schistosomum Haematobium, are, I think, more numerous than would be supposed from the figures in the Returns, although it cannot be said to be a common affection; many who suffer occasionally from blood in the urine do not trouble about it after a time. Fortunately it does not take on a severe character as in some other parts of the world.

#### Anchylostomiasis.

32. Anchylostomum Duodenale.—This can be very frequently met with, if sought, even in persons who would from appearances never be suspected of harbouring it. Only when the worm, from its numbers, leads to severe ill-health do Patients seek treatment.

At Sapele some observations were made on a number of cases which occurred in the Prison and the Medical Officer sent in a Report to the Principal Medical Officer on the subject.

#### GUINEA WORM.

33. Dracunculus Medinensis.—This is apparently most common in the Western Province, Lagos being said to account for 164 cases. This, I consider, gives rather a mistaken idea of its prevalence in that town. A very large proportion of these Patients become infected while in the Hinterland and then come down or return to Lagos. It is satisfactory however to observe that the number of sufferers is apparently diminishing.

Government employés suffering from this affection should not be sent to Stations where the disease is hardly known, otherwise a fresh centre will possibly be created.

#### General Measures—Sewage.

34. Sewage Disposal.—This matter does not in all instances receive that amount of attention which is desirable.

In all Towns and places in the Colony and Protectorate, where anything is done at all, the disposal of night soil is carried out by hand labour, assisted in one instance (Lagos) by a tramway. On the Coast or on the banks of large rivers dumping into the water is the simplest and most common method employed; danger however arises if the water is used for drinking purposes in the neighbourhood, and also on account of the possibility of Parasites entering through the skin. In most cases it is dumped from piers, wharves or from a water latrine which may be only over shallow water or even at certain states of the tide over dry ground or else it is taken out in canoes to the middle of the stream and dropped there. In some places the land method is employed, sometimes both it and water disposal, and in one or two instances burning has been tried on a small scale.

The means most commonly adopted on land and which, when properly looked after, has given the best results is the shallow trench system. I have also seen the deep trench method used but it has not been so satisfactory. The using of deep holes into which night soil is thrown works out very badly as although nominally a layer of earth is said to be used daily to cover everything up yet in practice this cannot be relied on without continual supervision and I have not yet come across an instance where it has been carried out in a manner worthy of imitation. In Lagos, the area of compulsory, removal of nightsoil has not been extended; not all the pans however

are removed to the Dejection Jetty by the tram but only those which are full, as at the Depot the contents of several may be emptied into one. This method leads to a nuisance both in the emptying and the cleansing of the pans.

I understand that a regular sewage system is to be introduced as soon as the water supply is an accomplished fact.

#### REFUSE.

35. Refuse.—A number of dustbins has been erected in various towns during the year which have been of great value and have led to an improved condition of the Streets and Compounds, but more are still required.

There are several methods in use for the diposal of refuse viz:-

- (a) By digging large holes, throwing the material in and setting it on fire, if it will burn; the major portion cannot however be destroyed by this means, especially in the wet weather.
- (b) The most usual method of getting rid of it in towns on the Coast or on the banks of rivers is to put it in canoes and dump it in the water some little distance a way. This is certainly a very convenient way but is not to be always recommended, and a certain amount of refuse is certain to wash up on the banks.
- (c) By burning. This is mainly exemplified in Lagos where there are a number of cheap and simple Destructors which have been built in various low lying situations about the town. The tins are roughly picked out of the refuse, thrown direct into the swamp and then covered up with the residue left from the Destructors. By this means large swampy areas have been filled in and reclaimed and parts of the town, which a few years ago were swamp and morass, are now quite respectable ground.

#### WATER SUPPLY.

36. Water Supply.—The arrangements mentioned in my previous Report are still in vogue.

At Lagos great progress is being made by the Water Engineer with the Iju Water Scheme and the Town is now within measurable distance of having a pipe-borne supply. At present all tanks and wells, which constitute the sole supply, are inspected at least once a week and when necessary cleaned out. During the year 44 Public Wells were deepened and cleared and six were fitted with pumps. The private wells are a source of danger as it is not so easy to get them properly attended to as those which are under the care of the Municipal Authorities; none of them are mosquito-proof and they doubtless serve as breeding places for numerous Mosquitoes although it is not always easy to find the Larvae.

#### FILTERS.

37. Filters.—All Officials and the majority of Europeans are supplied with Filters, the Pasteur-Chamberland being the most common and the most satisfactory. It is, unfortunately, not everyone who uses them properly or takes that amount of care of their condition which is essential to their being a protection instead of a source of danger; still, much more attention is given to them than used to be the case.

While travelling I found the Doulton Travelling Filter a very compact and useful article.

#### DRAINAGE.

38. Drainage.—In no part of the Colony have I come across any system of subsoil drainage but there is a scheme on foot at present for utilizing this method on the Lagos Race Course.

In all places the surface system is adopted. In Lagos, however, where, in parts, the drains have to be at some little depth in order to obtain the necessary fall, they are covered over where any danger is likely to arise and openings (protected) are made about every 50 or 60 yards. In these covered parts the drains are made of such a size as easily to allow of a man passing along for cleaning purposes and on several occasions I have been through them and always found them sweet and clear. The method of construction appears very satisfactory and the earthenware invert is a great advantage as it is so much more easily kept clean than a cement one.

The dual system of responsibility for the drainage of Lagos still exists within the Municipal Area, that of the main portion of the town being under the Municipal Engineer and the remainder, mostly around the Government Quarters, under the Public Works Department.

As money is available, the scheme of drainage drawn up by the Municipal Engineer is being worked out but at the present rate of progress it will be many years before it is complete.

Where the new drains have been put in, the old smells, which used to be so much in evidence, have largely been done away with. In places like Forcados, Bonny, Aboh etc, the question of satisfactory drainage is a difficult one and to a large extent resolves itself into first raising the ground level.

At Calabar the majority of drains in the town are simply cuttings at the sides of the streets and where there is so much fall the washing away is very considerable.

#### CLEARING.

39. Clearance of Bush and Undergrowth.—This, during the last year, has occupied a good deal of attention and in nearly every Station the cleared area has been increased and the whole maintained in a more or less proper condition, according to the amount of money or labour available. The importance of this is gradually coming to be recognized so that much more is now being done than was the case formerly.

The expense of maintaining extensive cleared areas round the Stations in a satisfactory condition is considerable but there is no doubt that it leads to a distinct improvement in the health of the Officers.

40. Infectious Diseases Hospitals.—In Lagos, as the present buildings have to come down and the Hospital has to be removed, a site has been selected on Ikoyi Plains about a mile beyond the Cemetery. Plans have been drawn up and approved and the buildings are already in course of construction. It being so far away, special means of transport will have to be provided.

This new Hospital, in which His Excellency Sir Walter Egerton and the Honourable Colonial Secretary have taken so much interest, will be a very great advance on the old one which, although it has been most useful and served its purpose, is now quite unsatisfactory, both from its character and surroundings.

At Ibadan a site has been decided on but nothing has yet been done as regards construction, either in the form of temporary or permanent erections.

In Calabar, the Infectious Diseases Hospital is away from the town but the absence of a water supply is a very great drawback. In the dry season Prisoners have to carry water there several days a week and all ablutions, washing of clothing etc., have to depend on the amount taken.

Warri possesses a Hospital at the back of the town for Infectious cases, which has buildings made both of brick and of mud, the latter cannot however be disinfected effectively unless they are burnt out and then re-roofed.

At Yaba the Leper Asylum buildings will soon require attention and the question of removal to another site further away is under consideration.

#### QUARANTINE.

41. Quarantine Stations exist at present at Lagos and Forcados; that at the former place is on the Sea Beach in a very exposed position and consists of a number of galvanized iron erections,—for the accommodation of Natives,—inside which are mosquito cages. One mosquito-proof building is set apart for a Hospital. No special arrangements are made for Europeans. At Forcados, the Station is some distance away up a Creek and has accommodation for Natives and Europeans, but the site is not good.

At Bonny an old Factory has been purchased, in an isolated position on the river bank, a short distance above the Station. This will require considerable expenditure to adapt it to the purpose for which it was bought.

At Calabar a site has been selected lower down the river than the town and on the opposite bank. It is simply Mangrove swamp and, unless the Dredger can be utilized to reclaim, the expense necessary for raising a sufficient area to a suitable height, by manual labour, will be very great.

#### SITES AND PLANS.

42. Sites and Plans.—A number of Plans of Buildings have been submitted which have been examined and, on which, suggestions have been made.

At a Meeting held at the Secretariat on November 9th, under the Presidency of the Honourable Colonial Secretary at which the Honourable Principal Medical Officer, the Director of Public Works, the Honourable Provincial Commissioner of the Western Province, the Government Architect and myself were present, certain minimum requirements were agreed on in regard to houses.

The main ones were as follows viz:-

- (a) The verandahs should be ten feet wide in front and eight feet wide at the sides and back.
- (b) The minimum floor area of a room (living) should be 224 square feet.
- (c) Each living room should have at least four double doors and not windows.
- (d) Houses should be raised six feet above the ground. (In reference to this point His Excellency Sir Walter Egerton, when he saw the six foot measurement, immediately ordered it to be increased to ten feet.) The question of building on solid platforms was considered but, although not absolutely condemned, the members were of opinion that a free current of air underneath was strongly advisable.

In reference to sites in Lagos it has been laid down that the Sanitary Officers have no responsibility as His Excellency the Governor selects and decides, but in other places it is usual to refer to the Medical Officer.

At Ebute Metta, the Head Quarters of the Railway, I have been forced to the conclusion that some such arrangement exists as in Lagos.

- 43. Sanitary Inspectors.—During the year an enquiry was held to consider, among other things, the training of men as Sanitary Inspectors but nothing has, as yet, been decided on. Many Inspectors are required at Stations and men have to be engaged who have had no experience nor satisfactory training. It cannot be expected that these men will either know their work or have much influence with the people generally.
- 44. Prisons.—Prisons are Institutions on the sanitation of which there is a good deal of diverse lay opinion, especially in regard to cubic space and ventilation area to be allowed per prisoner.

In very rare instances is the ventilation area provided up to the standard and I have seen it as low as a few square inches per prisoner. Endeavours are however being made to improve the present conditions where they are not satisfactory. Types of Cells (Solitary and Association) have been designed which will provide the requisite cubic capacity and ventilation area and in all future buildings I trust these will be adopted.

The following Table gives a few particulars in reference to some of the chief Prisons, taken from observations and Returns.

	Total Prison area per Prisoner.	Cubic space in Cells per Prisoner.	Ventilation area in Cells per Prisoner.
Male Cells. a	50 sq. yds.	425 c. ft.	4½ sq. ft.
b		475 c. ft.	6 sq. ft.
Female Cells. a	-	383 c. ft.	4½ sq. ft.
b	_	425 c. ft.	41 sq. ft.
Debtors Cells	_	567 c. ft.	17 sq. ft.
Condemned Cells	_	680 c. ft.	16 sq. ft.
Europeans Cells	_	648 c. ft.	17 sq. ft.
Abeokuta (Igbein	36 sq. yds.	324 c. ft.	1 sq. ft. in
Hill).	1 .		main building
1111).			4 sq. ft. in the
			others.
Ibadan	32 sq. yds.	294 c. ft.	1½ sq. ft.
Wanni	17 sq. yds.	163 c. ft.	15 sq. ft.
Classic	15 sq. yds.	198 c, ft.	3 sq. ft.
D. J. CUL	54 sq. yds.	460 c. ft.	6 sq. ft.
Calaban	28 sq. yds.	304 c. ft.	41 sq. ft.
ACCOUNT AND ADDRESS OF THE PARTY OF THE PART	22 sq. yds.	438 c. ft.	2½ sq. ft.
Opobo		266 c. ft.	
Degema	46 sq. yds.	864 c. ft.	3½ sq. ft.
Bonny	36 sq. yds.	318 c. ft.	11 sq. ft. 4 sq. ft.
Brass	The second second		A CONTRACTOR OF THE CONTRACTOR
Bende	33 sq. yds.	360 c. ft.	5 sq. ft.
Awka	32 sq. yds.	358 c. ft.	4 sq. ft.
Ifon	99 sq. yds.	700 c. ft.	2 sq. ft.
Kwale	29 sq. yds.	350 c. ft	6 sq. ft.
Ubiaja	39 sq. yds.	349 c. ft.	7½ sq. ft.

45. Slaughter Houses have been provided in Lagos, Epe, Warri, Onitsha and Calabar.

In Lagos there are three but the main one is on Iddo Island away from the town and all the meat has to be carried by head labour to the markets, which are between one and two miles away, and this method of transport cannot be considered at all satisfactory. The chief Slaughter House was originally intended to be of a larger size but on erection the plan was cut down.

Lagos is the only place in the Colony or Protectorate where any considerable number of animals are slaughtered for food, there being an average of 24 cattle killed daily in addition to Sheep, Pigs and Goats.

At Calabar the Slaughter House is on the river bank in the centre of the town and at Warri it is at the top of the town at the side of the stream.

46. Cemeteries do not receive that amount of attention which should be the case.

In some instances, on account of the character of the records kept, the identity of the graves of some of the Europeans has been lost and in the Native Cemetries very few indeed can be identified.

Burial in houses, although forbidden in the capital towns of the Provinces, is common and in fact the usual thing in many places, but until Cemeteries are provided very little can be done to put a stop to this method of interment.

At Ibadan a Cemetery has been made, mainly for the use of the Hospital, but I do not know of one for the town, except in connection with Churches.

47. Lagos is the only place where I have seen extensive arrangements for public washing. This provision is specially necessary in a town of this description and care should be taken to make them large and convenient, as the more they are patronized the less washing will be done in the small private compounds.

During the year the main Laundry in the town has been enlarged by the addition of another shed.

48. Hygiene is taught in the Schools and the Sanitary Officers in their journeys round the country endeavour to instil ideas of and arouse interest in the practical part of the subject. At some of the Stations the Medical Officers often visit Schools and talk to the Pupils for a few minutes on sanitary matters.

Formerly the subject of Hygiene and Sanitation was a special one in the Schools but now it has been made compulsory. Progress is being made and Mr. Hyde Johnson, the Director of Education, informs me the pupils are beginning to take their ideas home and are causing their friends "unnecessary trouble" by their "new notions."

The Teachers themselves are taking a greater interest in the subject and of those who sat at a recent examination 75% were successful.

#### BUILDING RULES.

49. Building Rules for Lagos were drawn up under the Towns (Regulation) Ordinance, in 1910, and came into force in May. In other places the "Local Authority" acts only under the powers already conferred under the Towns Ordinance. At the Stations where there are Government Reservations the Boards are making Rules under the Reservations Ordinance but these only affect the Reservation land.

#### SEGREGATIONAL.

50. Segregation is a matter which will continue to be of great importance to the health of Europeans for many years to come yet. The best example here of this system is to be seen at Calabar. Distinct advance has been made in Lagos of late years on the outskirts of the European Quarters, but there is a spot in the centre which yet remains to be dealt with.

#### LAGOS.

51. Lagos as a town is very different from a sanitary point of view to what it was not so very long ago. The making of streets is being pushed along and is rapidly opening up the back parts of the town to general traffic. During the year over five miles of roads have been made. The overcrowded parts of the town require to have wide thoroughfares cut through them and a definite plan of proposed streets should be made and gradually worked out. The construction of drains is progressing and is leading to a very great change for the better, the streets are better kept and the compounds generally receive much more attention than was previously the case, the regular weekly inspection having led to a great change and provided a very necessary stimulus.

In reference to the Prosecutions under the Destruction of Mosquitoes Ordinance it would be a great improvement if a Special Court could be held once a week for the hearing of the cases and if it could be arranged that the Medical Officer of Health be empowered to call on offenders against this Ordinance to attend the weekly Court next following the offence it would be a great advantage and the effect produced by having no delay would, I believe, be much more effective than the present method.

#### BONNY.

52. At Bonny I am glad to be able to record a very distinct improvement in the condition of the town which redounds greatly to the credit of the Medical Officer and the District Commissioner who have been able to get considerable improvements carried out; dustbins have been put up; clearing and reclamation have been carried on: old houses have been pulled down; boundaries have been set back to remove encroachments on public highways; streets have been cut; drains have been made and the Market Place, which was very small indeed and shut in, has been opened up to some extent.

#### Орово.

53. Opobo. Here considerable advance has been made, clearing has been increased and the whole area maintained in a cleaner condition than formerly, the river bank has been got into a better state, reclamation has been continued and several Mercantile Firms have greatly improved their Compounds by filling in considerable areas and thereby also contributed to the general well-being.

#### FORCADOS.

54. At Forcados much work has been continuously carried on, and it has to be continuous to be of any service whatever. The Native parts are however in a very bad state. Many of the places lived in would be immediately condemned if there were anywhere else for the people to go. A small Mosquito-proof Hospital with two rooms is being erected for Natives for the isolation of any cases which may give rise to the suspicion of Yellow Fever.

#### 55. RECOMMENDATIONS.

- A. The recommendations made in the Report for 1910 in reference to Reclamation, Water Supplies, Mosquito-proofing, Drains, Clearing, Streets, etc., still hold good, although much has been done, but with increasing knowledge these matters acquire increased importance. I should like to emphasize the advantage which would accrue if an addition could be made to the number of Dredgers capable of doing reclamation work, which is badly needed in so many places.
- B. I wish to suggest the appointment of one, if not two, more Sanitary Officers so that the work may be carried out more efficiently and in support of my suggestion I would mention the following facts viz.:—
  - (i). A permanent man to act as a relief is very much more satisfactory and carries much more influence with the Medical Officers, Officials generally and other persons than one temporarily seconded from other duties.
  - (ii). Even yet it has not been found possible to visit all the Stations in the Colony.
- (iii). It is considered necessary that one Sanitary Officer should be always in or near Lagos, where also there is much more work to be attended to than was anticipated in the first instance.
- C. At Calabar no one of the Officers of the Medical Department has sufficient time, apart from his other duties, to see to the carrying out efficiently of the sanitary work of the town. I would suggest that either a Medical Officer of Health be appointed, who would also be able to supervise sanitary work in places in the neighbourhood, or that an additional Medical Officer be stationed there.
- D. At Forcados a portion of ground should be set aside for a Native town and the swamp should be properly reclaimed so as amply to allow for sinking. It should then be laid out and plots let off. There are very few Natives in the town who are not there for work and who could all pay a small rent; the majority would, I am sure, be glad to do so in order to be always sure of a piece of dry ground.
- E. In Lagos arrangements should be made for the transport of meat from the Slaughter House to the Markets. This could easily be done by means of the tramway, if special cars were obtained, as the line passes all the Markets and would only have to be extended half a mile to reach the main Slaughter House. Satisfactory and roomy Meat Markets are badly needed. The Reclamation of the area for the proposed Public Market should be undertaken as soon as possible as this question is an urgent one.

- F. The Education of men for the posts of Sanitary Inspectors badly requires settling; many places require Inspectors and there is no one to send, the result being that men are engaged who have little, if any, education and no training in sanitary work.
- G. I would suggest that all Prison Association Cells be inspected and certified for a certain number of Prisoners and that the Officer in charge be held responsible for that number not being exceeded without a Special Report being sent in stating the fact and explaining the reason for its necessity.

#### IV.-METEOROLOGY.

The climate of Southern Nigeria is humid and enervating. The rainfall varies considerably at the different stations as shown on Table V. of the Returns.

#### V.—HOSPITALS AND DISPENSARIES.

During the year 88,539 sick persons received treatment in the whole Colony compared with 85,237 in 1910.

Western Province 38,853 Central Province 25,375

Eastern Province 24,311

88,539

Table VII of the Returns has been prepared as in previous years and embraces all cases under treatment.

#### HOSPITAL AND DISPENSARIES.

The European Ward of the Lagos Hospital has been extended by the addition of three new wards with the necessary lavatory accommodation.

At Warri, a modern Native Hospital containing 24 beds has been built allowing of Surgical Work being efficiently performed.

The Asylum buildings at Yaba have been renovated and put in thorough order for the accommodation of male and female patients.

There has been a new Mortuary erected at Onitsha.

## WESTERN PROVINCE BY DR. E. H. READ, SENIOR MEDICAL OFFICER.

Public Health.

#### I. General Diseases.

The health of the inhabitants of the Western Province during the year 1911 has been very good. There have been only a few cases of general diseases. A vast number of patients were treated for abscesses, injuries of various kinds, ulcers and intestinal disorders.

#### II. Communicable Diseases.

- (a) Insect-borne diseases:—Malaria Fever is very common constituting 8.5% of the total cases treated. Only two cases of trypanosomiasis were reported. There were no cases of Yellow Fever in spite of the fact that stegomyia fasciata is the most common mosquito.
- (b) Infectious diseases:—Small pox occurred in a few sporadic cases but there was no epidemic. A few cases of whooping cough were reported, mostly from Lagos.
- (c) Helminthic:—A large number of patients were treated for round worms. Guinea worm is fairly common but filarial diseases are rare. Only 52 cases of ankylostomiasis were definitely diagnosed. A careful examination of the faces of Natives shows that a large proportion of them have a few ankylostome eggs but the infection is seldom so great as to cause symptoms of the disease. The mere presence of a few ankylostomes in the intestine does not imply an attack of ankylostomiasis.

#### European Officials.

There were no special diseases prevalent during the year but practically all Europeans suffer from various minor ailments from time to time during their tour, particularly skin diseases of various kinds. Gastric and intestinal symptoms of a vague nature, to which no definite name can be given but which cause a good deal of trouble, are also fairly common. Rheumatic pains occur during the rainy season. All these conditions exercise a debilitating influence on the patients and often pave the way for more serious diseases. Fortunately officials seldom wait very long before getting advice.

A considerable number of officials are stationed in Lagos and, whilst there is an excellent Club and plenty of amusements for First Class Officers, Second Class Officers have no way of spending the evenings except in their own quarters and in visiting each other. This frequently leads to over indulgence in alcohol. There should be an Institute with plenty of newspapers and magazines and a billiard table. This would be an excellent remedy. There is a large number of junior assistants in the various firms and these might be benefitted by becoming members of such an Institute.

#### HOSPITALS AND DISPENSARIES, WESTERN PROVINCE.

The number of patients treated during the year 1911 is shown in Tables VI and VII and the figures there speak for themselves. The majority of cases are of minor ailments like worms, skin diseases, ulcers and local injuries. Patients have no hesitation in asking for advice and they are all willing to take medicines but the fear of being operated upon is still well marked although it is being gradually dispelled and the number of operations done is increasing every year.

- 2. An extension to Lagos Hospital was begun during the year and ought to be ready soon for occupation. Further improvements, such as the mosquito-proofing of the whole hospital both European and Native Wards, are urgently required.
- 3. The out-patient accommodation in Lagos Hospital is quite inadequate for the number of patients treated. The consulting room is of the most primitive kind and the writing room is much too small. The dressing room is also used as a consulting room for patients from the Southern Nigeria Regiment and in addition vaccinations are done therein. The congestion is intense when out-patients and soldiers, dressings and vaccinations, are all being done at the same time, as is the case every afternoon.
- 4. Improvements to the European Sisters' quarters were also begun and are slowly approaching completion. At present one of the sister is living in half of the female native ward but when the alterations are finished the whole ward will be available for female patients.

Scientific.

The Medical Research Institute at Yaba is supplied with specimens of various kinds from time to time by the Medical Officers who also send the Director accounts of the cases.

- 2. It is very difficult to find time to investigate the many interesting cases which are seen here where there is so much work to be done. Much might be done in this way by a Clinical Pathologist attached to Lagos Hospital. At present the Resident Medical Officer has no time for anything but the most urgent microscopic examinations. There is a large variety of skin diseases most of which are at present grouped under "Parasitic Eczema." These would repay a careful investigation.
- 3. The discovery of an imported case of "Oriental Sore" is of some interest. The patient has never been on the sick list with it. Precautions are being taken to prevent the spread of the disease by keeping it always covered up. There is still much doubt as to which insect carries this disease so it is difficult to say whether it could be spread in this country.
- 4. Many Medical Officers have attended special courses in Entomology and these have been supplied with outfits. Much valuable material has been sent to the various schools.
- 5. A certain number of parasitic worms is collected from various domesticated and wild animals. Frequently there is a close connection between the diseases of man and those of animals and important results might follow their more complete investigation.

#### WESTERN PROVINCE.

Table showing the Sick, Invaliding, and Death Rates of European Officials.

Total number of Officials resident in	neludi	ng Rai	lway	1911
Extension				908
Average number resident				373
Total number on Sick List				157
Total number of days on Sick List				1413
Average daily number on Sick List				3.8

Percentage of Sick to average number resident Average number of days on Sick List for each	42.1
Patient	9
Average Sick time to each resident	4.7
Total number Invalided	28
Percentage of Invalidings to total residents	3.08
Total Deaths	7
Percentage of Deaths to total residents	.77
" " " average number resident	1.8
Number of cases of Sickness contracted away from	
residence	Not known.

CASES OF MALIGNANT DISEASE OCCURRING IN LAGOS HOSPITAL 1911.

- 1. Female, aet: 28. Carcinoma Breast, admitted 24th February 1911, discharged 28th February, 1911. Died two days later. Case was too far advanced for operation.
- 2. Male, aet: 26. Round Celled Sarcoma Ulna, admitted 15th February, 1911. Discharged 11th March, 1911. Operation tumour removed—went out well.
- 3. Female, act: 37. Pelvic Tumour probably malignant ovarian. Ascites Tapped, blood-stained fluid, admitted 28th February, 1911. Discharged 21st March, 1911. Improved.
- 4. Male, act: 9. Spindle-celled Sarcoma superior maxilla, admitted 9th June, 1911. Discharged 30th June, 1911. Partial removal. Medical Research Institute examined tumour miscroscopically.
- 5. Male, aet: 45. Sarcoma Tibia, admitted 10th July, 1911. Discharged 21st August, 1911 Operation. Removal of Tumour with rapid recurrence.
- 6. Female, aet: 13. Sarcoma, slow—growing right superior maxilla, admitted 20th October, 1911. Discharged 24th November, 1911. No operation.
- 3 Males and 3 Females. One carcinoma, one doubtful and four sarcomata.

#### CENTRAL PROVINCE BY DR. A. W. S. SMYTHE, ACTING PROVINCIAL MEDICAL OFFICER.

Public Health.

- (a) General Remarks.
- 1. General diseases are much the same as in Europe—Rheumatism, Diarrhoea, Bronchial and Lung diseases being very common; no cases of Enteric have been reported during the year.
  - 2. Communicable—Mosquito or insect borne.

Malaria Fever of a mild type is prevalent over all the Province and does not seem to be influenced by the seasons. Filariasis is also found but is comparatively scarce, only nineteen cases being reported. Yellow Fever has not been reported and apparently does not exist either in an endemic or epidemic form. No cases of Relapsing Fever or Plague have been reported. There were two cases of Sleeping Sickness one of which was imported.

Infectious or Epidemic.

There were two epidemics of Chicken Pox during the year, one in the Onitsha Prison and one in the Warri Prison but in both instances the disease was of a very mild type. In both prisons the disease was at its worst during the last three months of the year. There was a similar outbreak in Warri Prison in 1909 at the same time of the year.

Helminthic.

Cases of infection with Nematode worms are common. Ankylostomiasis is very prevalent but is usually of a chronic character and does not give rise to many symptoms.

#### (b) European Officials.

Health, as in other years, neither better nor worse. Malaria of a mild type, stomach troubles and Bronchitis are among the commonest diseases. One official died and one was murdered, and three were invalided.

#### (c) Native Officials.

Nothing special to report: they have enjoyed good health as a rule.

#### SANITATION.

Administrative.

Three Sanitary Inspectors, two headmen and forty five labourers are paid out of money provided in the estimates, but in addition to this a certain amount of prison labour is always available.

The Towns (Regulation) Ordinance applies to most towns in the Province,

Dustbins, latrine pans, etc. are emptied daily by gangs of prisoners or of sanitary labourers.

#### Preventive Measures.

#### (a) Mosquito and insect borne diseases.

Most of the Government and a few of the Commercial houses are mosquito proof or have a mosquito proof room. Mosquito nets are used by all Europeans and by many natives. Segregation of the Europeans from the Natives is aimed at, with the demolition of Government native quarters. It is becoming more effective every year.

Digging of drains or ditches, filling of holes and pools, kerosening of mosquito breeding places, is carried out where possible. The majority of European officials take quinine regularly for prophylaxis against malaria.

Quinine for prophylaxis is also issued free, the total amount dispensed for this purpose during the year was 229,963 grains cost £37 14s. 8d.

Tsetse flies are very numerous throughout the Province but only two cases of Sleeping Sickness were recorded during the year and one of these was imported from another Colony.

#### (b) Epidemic Diseases.

With epidemic diseases the usual precautions are taken, Isolation, Disinfection and the usual routine methods.

Small Pox.

There was a minor outbreak in a small village in the Forcados district at the beginning of the year but, owing to prompt measures taken, it was confined to this village and did not spread any further. Apart from this only thirteen cases were recorded in the whole Province.

Vaccination.

There were twenty two thousand four hundred and thirty one successful vaccinations performed and twelve thousand six hundred and ninety two unsuccessful were recorded. A large percentage of the latter was, no doubt, successful. A number did not return for inspection and so were included in the returns as unsuccessful.

Dysentery.

Dysentery is prevalent, but among Europeans not very common as they take precautions to have their drinking water boiled and filtered. The Natives take no precautions but drink any sort of water from muddy pools, from the river or from creeks. It is an every day occurrence to see Natives in canoes or boats dip a tin pan over the side and drink the water through which they are paddling and, as most of the sewage is thrown into the river, it is easy to realize why Dysentery and other intestinal diseases are so common amongst Natives.

Enteric.

No cases recorded.

Bilharzia.

Very rare—only two cases recorded.

Trichinosis.

No cases recorded. Meat exposed for sale is inspected at Warri and Onitsha only.

Guinea Worm.

Fairly common but in most cases it is imported from other Provinces or Colonies. It is not indigenous.

Ankylostomiasis.

Common, but it is as a rule of a mild type and does not give rise to much constitutional disturbance.

#### (III) General Measures.

Measures taken to spread knowledge of Hygiene and Sanitation.— Instruction in hygiene is given in the Government Schools and Medical Officers constantly explain sanitation and impress upon the natives the necessity to keep their towns and compounds in a sanitary state. The connexion between mosquitoes and water is also demonstrated to them.

#### RECOMMENDATIONS FOR FUTURE WORK.

Masonary drains are absolutely necessary and no town will be in a sanitary or tidy condition until a number are built. In the larger towns a proper Destructor of the Horsfall type is required. More Sanitary Inspectors and Sanitary labourers are also wanted.

#### HOSPITAL AND DISPENSARIES.

In all 25,375 cases were treated at the various hospitals and dispensaries in the Province. The commonest diseases were Bronchitis, Diarrhœa, Malaria, Rheumatism, Injuries and Ulcers. A new Native Hospital was opened in Warri and is much appreciated by the Natives as are the dispensaries and hospitals throughout the Province. The total number of patients who availed themselves of the treatment of the European Staff demonstrates this clearly.

#### CENTRAL PROVINCE.

Table showing the Sick, Invalidings, and Death Rates of European Officials.

Total number of Officials resident	 		237
Average number resident	 200	***	94.4
Total number on Sick List	 		141
Total number of days on Sick List	 		807
Average daily number on Sick List			2.2
Percentage of Sick to average num	sident		149.3
Average number of days on Sick L			5.7
Average Sick time to each resident			8.5
Total number invalided			3
Percentage of Invalidings to total r			1.2
Total Deaths			2
Percentage of Deaths to total resid			.8
" " " average numl	ident		2.1
Number of cases of Sickness cor		V	
from residence			t known.

# EASTERN PROVINCE BY DR. C. R. CHICHESTER, PROVINCIAL MEDICAL OFFICER.

#### Public Health.

#### (a) General Remarks.

The Tables of Diseases, with the number of cases treated, show the amount of work done in the various District during the year 1911.

#### The Chief causes of illness were:-

Varicella		 		635
Variola		 		23
Malaria	***	 	+++	2,012
Rheumatism		 		1,090
Alimentary Sy	vstem	 		3,449
Respiratory	.,	 		4 (47777
Dysentery		 		129
Nervous Syste		 		408
Parasites				419
Skin Diseases		 		4.854
Cellutar Tissu				1,223

On the whole as compared with 1910, there has been a decrease in both General and Communicable Diseases.

Malarial Fever has distinctly decreased since the previous year. This is undoubtedly due to the Anti-Mosquito measures employed and carried out in the various districts by the Medical Officers. The application of the Mosquito Ordinance and its strict enforcement in the larger towns of Calabar, Bonny, Opobo and Degema, has had a marked and decidedly good effect on the prevalence of Mosquitoes and Malarial Fever.

No cases of Yellow Fever, or even suspicious cases of Fever, were recorded.

There is also a marked decrease in the number of cases of Dysentery viz., 129 cases as compared with 312 cases in 1910. This is due to the strict precautions taken and the improved ventilation and sanitation of all the prisons in the Province.

It is very satisfactory to record that only 23 cases of Variola occurred during the year. This is due to the Vaccination work carried out with great success in all the districts.

The following table shows the comparison with the previous year.

	1911.	1910.
Total vaccinations	 48,109	47,054
Total successful	 38,449	37,663

Beri Beri.—Five cases of this disease are recorded in this Province for the year.

No deaths occurred among the European Officials.

The total number of cases treated in the various hospitals and dispensaries in the Province amounted to 24,311.

#### EASTERN PROVINCE.

Table showing the Sick, Invalidings and Death Rates of European Officials.

Total number of Official resident				227
Average number resident				127.6
Total number on Sick List				163
Total number of days on Sick List				2305
Average daily number on Sick List				6.3
Percentage of Sick to average number				127.7
Average number of days on Sicl	List	for	each	
Patient				14.1
Average Sick time to each resident				18
Total number invalided			***	10
Percentage of invalidings to total re	esident	ts		4.4
Total Deaths				0
Percentage of Deaths to total reside	nts			0
" " " average nu	mber :	reside	ent	0
Number of cases of Sickness contra	acted a	away	from	
residence				Not knows

# RETURNS.

# TABLE I. MEDICAL STAFF ON THE 31ST DECEMBER, 1911.

		DICA	. 01	AIT (	, III	E OI	SI DECEMBER, 1911.
		Rar	ık.				Name.
Principal M							W. H. Langley, c.m.g.
Deputy Prin				licer			T. Hood.
Senior Sanit Provincial I					***	***	J. A. Pickels. C. R. Chichester.
Provincial r	Medica	ii Ome	er	***	***		W. H. G. H. Best.
Senior Medi	ical Of	fficer"					E. H. Read.
	"	11	***				St. G. Gray.
**	**	55					W. F. Macfarlane.
Sanitary Of			***				R. Laurie.
Medical Off	icer	***	***	***	***	***	A. W. S. Smythe.
"	**		***		***	***	A. J. A. Browne. W. I. Taylor.
	**	***	***	***	***		F. J. A. Baldwin.
	11						T. B. Adam.
	"	***		***	***		J. B. Bate.
	,,			***			M. E. O'Dea.
	**	***					G. Hungerford.
22	99	***					D. A. Ashton.
"	**			***			R. W. Gray.
	"	***	***	***	***		T. F. G. Mayer. E. H. Tipper.
	"						J. Currie.
	99 99						J. D. Finlay.
	"						E. E. Maples.
	"	***	***	***			J. C. M. Bailey.
"	**	***		***			H. R. Ellis.
22	99				***		F. B. Thompson.
	22		***	***		***	J. S. Smith. D. Mackinnon.
	11			***			R. C. Hiscock.
	77 77						H. L. Burgess,
	**	***					J. J. Moore.
"	99						P. H. MacDonald,
**	17			***			J. Cross.
99	99	***		***			E. J. Tynan, M. O. H., Lagos.
"	19	***	***	***	***		H. M. Newport. A. H. Wilson.
"	**						T. M. R. Leonard.
"	17						P. F. Foran.
22	19	***	111		444		T. R. Beale-Browne.
"	11						G. Beatty
33	11				***	***	T. L. Craig.
22	17				***	***	J. H. McKay. H. R. Morehead.
17	55		***		***	***	A. E. Neale.
"	"						G. Wilson.
"	"						S. L. G. D. MacLaine.
- 22	"						T. H. Suffern.
-11	17			***		***	A. W. H. Grant.
-,,	77			***	***	•••	E. M. Franklin.
-11	27	***		***	***	***	W. S. Clark. J. R. P. Allin.
-33	"						T. Hood-Rankin.
-99	17						C. W. O'Keeffe.
"	22		***		***		G. M. Gray
11	"						W. H. Sieger.
-99	"						W. H. Peacock.
"	"					***	R. C. Macpherson.
- 31	11		***		***		A. Hutton.
-11	12	***		***		***	G. H. Galagher. F. Ross.
17	77					***	C. G. Grey.
- 77	17						J. P. B. Snell.
- 11	11						L. H. Booth.
22	12					***	A. Hipwell.
22	17	***		***	***		E. L. Sieger.

# TABLE I.—continued.

			R	ink.				Name.
Med	ical	Officer				***		W. M. Woods,
		Omeer				***		R. H. Brierley.
	**	**				***		E. C. Braithwaite.
	**	**	***			***		H. R. M. Ferguson,
	**	**	***	***	***	***		W. T. Martyn-Clark. E. J. Wyler.
Vati	ve M	ledical (	Officer					C. J. Lumpkin.
**		**	19					O. Sapara.
**		**	11	***	***	444		W. A. Cole.
**		"	"	***	***	***	***	C. C. Adeniyi-Jones.
		EURO	PEAN	NURS	SING	STAFF	ON	DECEMBER 31st, 1911.
eni	or N	urse						M. M. Graham.
99		99	***	***	***		***	Jane Grewer,
31		**		***	***	***		E. K. Neville, R. M. Veecock.
27		57						F. M. Day.
**		**				***		J. McCotter.
vurs		***	***			***	***	E. Briggs.
**		***	***				***	L. M. Single,
"	***	***						K. Gordon,
**	***	***	***	***	***		***	L. Harvey. J. Winchester.
**	***	***		***			***	C. Littlewood.
**								L. M. Borthwick.
99								J. Y. Matthews.
**		***	***	***			***	A. E. Drew.
77	***	***			***			E. M. Robbinson.
**	***		***		***		***	E. E. Elliot.
		P	RINCI					UBORDINATE STAFF.
	t Clas	ss Clerk		***				G. Taylor.
irst	99	. 22						A. J. Salvador.
	and C	lass Člei	k		***	***		G. R. King.
		11 11			***			G. J. Rufino. Two,
eco		ee Clork	54		***	***		One.
Seco Chir	d Cla	ss Clerk				***		
Seco Chir	d Cla					***	***	
Seco Thir Lear	d Cla				***			Two.
Seco Thir Lear	d Cla		***		***			
Seco Chir Lear Mess	d Cla rner senge			 V1	***			Two.

SENIOR MEDICAL OFFICER'S OFFICE.

Second Class Clerk Messenger					J. F. Fakolujo. One.	
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# TABLE I .- continued.

# WESTERN PROVINCE.

#### DISPENSING STAFF.

R	ank.				Name.
Chief Dispenser					A. E. Phillips.
First Class Dispenser					R. A. Benjamin.
99 ** 99					T. E. Macaulay.
17 77 77			***		S. A. Doherty.
Second Class Dispenser				***	S. Phillips.
			***		Seven. Two vacancies.
Dispensers-in-training				:::	Eight.
					and the second second
		N	URSIN	g S	raff.
First Class Nurses					Thirteen.
					Four vacancies.
Second Class Nurses					Thirteen.
		***			Four vacancies.
Nurses-in-training					Six.
		Lago	s ME	DICA	L STORE.
Storekeeper and Warde Storeman	n				S. O. Ohekeno. One.
					One.
					One.
	,	YABA	Lunz		Asylum.
Senior Attendants		Y ABA	LUNA		
		Y ава 	Lunz	ATIC	Asylum.
Innion	::: C1	ENTI	::: RAL	TIC :::	ASYLUM.
	::: C1	ENTI	::: RAL	TIC :::	ASYLUM. Two. Ten.
Junior " First Class Clerk	C)	ENTI	::: RAL	TIC	ASYLUM. Two. Ten. COVINCE. CAL OFFICE.
Junior " First Class Clerk	 C) Pro	ENTI	::: RAL	PR	ASYLUM. Two. Ten. COVINCE. CAL OFFICE. G. S. Blankson.
Junior " First Class Clerk Third " "	 C) Pro	ENTI	::: RAL	PR	ASYLUM.  Two. Ten.  COVINCE.  CAL OFFICE.  G. S. Blankson. One.
Junior " First Class Clerk Third " "	 Pro	ENTI OVINCE	::: RAL	PR	ASYLUM.  Two. Ten.  COVINCE.  CAL OFFICE.  G. S. Blankson. One. One.
First Class Clerk Third " " Messenger	 Pro	ENTI OVINCE	RAL	PRIEDICE SEG S	ASYLUM.  Two. Ten.  COVINCE.  CAL OFFICE.  G. S. Blankson. One. One.
First Class Clerk Third ,, , Messenger	Cl	ENTI OVINCE	RAL	PR	ASYLUM.  Two. Ten.  COVINCE.  CAL OFFICE.  G. S. Blankson. One. One.  TAFF.
Junior " First Class Clerk Third " "	Cl	ENTI OVINCE	RAL	PRIEDICE S	ASYLUM.  Two. Ten.  COVINCE.  CAL OFFICE.  G. S. Blankson. One. One.

# TABLE I .- continued.

# CENTRAL PROVINCE.

#### NURSING STAFF.

R	ank.				Name.
First Class Nurses					Two,
19 19 19					Two vacancies.
Second Class ",	***			***	Two.
Nurses-in-training	•••	•••	***		Three.
			-		
	INFE	CTIOU	s Dis	EASE	s Hospital.
Attendants			***		Two.
	EA	STE	RN	PRO	OVINCE.
	Pro	OVINC	AL N	EDIC	CAL OFFICE.
First Class Clerk					One vacancy.
Second " "					One.
Third " "	***			***	One.
Messenger			4.4.4		One,
		Dis	PENSI	ng S	TAFF.
Senior Dispenser					J. T. C. Robbin.
First Class Dispenser					E. J. Lewis. A. O. A. Laborunaja.
Second Class Dispenser	8				Fifteen.
					One vacancy.
Storekeepers			***		Two.
		N	URSIN	G S1	CAFF.
First Class Nurses					Four. Two vacancies.
Second Class ",					Seven.
		***	***		Three vacancies.
Nurses-in-training	***			•••	Four.
		Lu	NATIO	As	YLUM.
Senior Attendant					B. P. Barkley.
Attendants				•••	Four.
	Infi	ECTIOU	os Di	SEASI	es Hospital.
	-4-			-	1

#### TABLE I.-continued.

#### PRINCIPAL CHANGES.

#### WESTERN PROVINCE.

#### CLERICAL STAFF.

Mr. Abayomi, Third Class Clerk, Principal Medical Office, promoted to Agricultural Department, Ibadan.

#### DISPENSING STAFF.

Mr. Claudius Franklin, Dispenser-in-training, promoted Second Class Dispenser, Eastern Province.

Mr. Alexander Silva, Dispenser-in-training, premoted Second Class Dispenser, Central Province.

Mr. J. A. Ladega, Dispenser-in-training, promoted Second Class Dispenser, Western Province.

#### NURSING STAFF.

Mr. Thomas Romeiro, First Class Nurse, retired on pension.

Mr. George Lawani, First Class Nurse, died.

#### CENTRAL PROVINCE.

CLERICAL STAFF.

Mr. O. F. Morgans, appointed Third Class Clerk.

#### DISPENSING STAFF.

Mr. Alexander Silva, Second Class Dispenser, was transferred from the Western Province.

#### EASTERN PROVINCE.

#### CLERICAL STAFF.

Mr. J. B. Aidoo's appointment as Second Class Clerk was terminated.

Mr. A. D. E. Eyo, Third Class Clerk, was transferred to the Forestry Department on promotion.

Mr. P. E. Adam, appointed Third Class Clerk.

#### DISPENSING STAFF.

Mr. Claudius Franklin, Second Class Clerk, was transferred from the Western Province.

#### NURSING STAFF.

One Second Class Nurse dismissed.

TABLE II.

STATEMENTS OF EXPENDITURE IN THE YEAR UNDER SUBHEADS
AS COMPARED WITH THE ESTIMATES.

	Medical—Head 21.	Estimates 1911.	Actual Expenditure
	PERSONAL EMOLUMENTS—HEAD- QUARTERS.	£ 17,954	£ s. d. 17,596 5 11
	OTHER CHARGES.		
27 28 29 30	Outfit allowance to European Nurses Outfit allowance to Medical Officers Medical examination of Officers in England Expenses of Doctors and Nurses at School of Tro-	96 96 150	120 0 0 120 0 0 182 14 0
	pical Medicine and fees on engagement of and reserve of Medical Officers in England	450	851 3 6
31	Contribution to Malarial Committee towards in-		
	vestigation of Malaria	350	350 0 0
	PERSONAL EMOLUMENTS—WESTERN PROVINCE.	15,610	11,074 14 2
	OTHER CHARGES.		
92	Occasional Nurses	10	5 18 0
93	Clothing and Bedding (General) Diets, Provisions and Necessaries	275 2,185	206 12 7 2,026 13 5
95	Fuel, Light and Sundries	130	132 16 1
96	Medicines	1,200	1,151 7 4
97 98	Instruments	500	448 17 11
99	Vaccination expenses	360	301 0 10
100	Fees to Government Medical Officers for success-	270	341 13 7
101	ful vaccinations performed	200	21 7 2
101	Upkeep of Bacteriological work Upkeep of Parasitological work	25 25	
103	Registers Vital Statistics	100	60 1 0
104	Allowance for Uniform Native Nurses and Asylum	410	10 11 16
105	Attendants Uniform for Labourers and Watchmen	75	51 16 11
106	Uniform for Vaccinators	30 25	26 7 10 18 17 7
107	Night Duty Allowance to Hospital Labourers	14	12 9 9
108	Horse Allowance to Medical Officers	692	677 15 1
109A	Expenses African Medical and Sanitary Committee		86 1 1
	Total £	40,822	35,864 13 9

The Personal emoluments of Headquarters include an amount of £1,900 for the Sanitary Branch which has been transferred to the Sanitary Vote for 1912.

TABLE II.—continued.

STATEMENTS OF EXPENDITURE IN THE YEAR 1911 UNDER SUBHEADS AS COMPARED WITH THE ESTIMATES.

	Medical—Head 21.	Estimates 1911.	Actual Expenditure.
	PERSONAL EMOLUMENTS—CENTRAL PROVINCE.	£ 9,836	£ s. d. 10,158 16 2
	OTHER CHARGES.		
143	Extra Medical Assistance	15	5 17 7
144	Medicines	750	680 18 1
145	Surgical Instruments and Appliances	500	449 18 2
146	Medical Comforts	150	113 8 11
147	Bedding Hospital equipment and clothing Sapele	The second	
	Hospital	20	7 19 6
148	Bedding Hospital equipment, etc., Warri European		
	Hospital	50	14 2 0
149	Bedding and Hospital equipment, etc., Onitsha	0=	04.40 0
470	Hospital	25	24 13 9
150	Bedding and equipment for Hospitals at outstations	80	34 16 3
151 152	Washing European and Native Hospitals	60	76 10 b
152	Native Hospital and Infectious Diseases Hospital, Warri, Diet and Provisions	25	14 8 3
153	European Hospital, Warri, Diet and Provisions	200	14 8 3 113 16 8
154	European Hospital, Sapele, Diet and Provisions	100	100 0 0
155	European Hospital, Onitsha, Diet and Provisions	200	127 10 6
156	Outstations Hospitals, Diet and Provisions	100	56 11 8
457	Laboratory equipment and upkeep	25	10 7 4
158	Vaccination expenses. Cost of lymph, lancets, etc.	300	301 19 3
159	Bonuses to persons vaccinating	25	
160	Fees for successful vaccinations performed, Gov-	-	
	ernment Medical Officers	250	80 9 6
161	Upkeep of Medical Library	10	6 0 6
162	Expense of Leper Settlement, Onitsha	300	305 19 0
163	Hammocks for Medical Stations	15	8 3 3
164	Transport of Stores	50	9 15 4
165	Diets and Provisions, Forcados Sanitary Station	50	4 12 0
166	Typewriters Bedding and equipment Native Hospital Warri	40	31 1 7
231	Bedding and equipment Native Hospital Warri	_	86 3 7
	Total £	13,176	10,074 13 11

# TABLE II.—continued.

STATEMENTS OF EXPENDITURE IN THE YEAR 1911 UNDER SUBHEADS AS COMPARED WITH THE ESTIMATES.

	Medical—Head 21.	Estimates 1911.	Actual Expenditure
	PERSONAL EMOLUMENTS—EASTERN PROVINCE.	£ 16,107	£ s. (
	OTHER CHARGES.		
209 210 211 212	Extra Medical Assistance	15 1,200 600 170	7 9 1,119 3 713 18 144 15 1
213 214 215	Bedding Hospital Equipment and Clothing Calabar Hospital Bedding and equipment for hospitals at outstations Washing European and Native Hospitals	120 150 80	128 17 119 13 51 8
216 217 218 519	European Hospital Calabar Diets and Provisions  Native Hospitals Calabar Diets and Provisions  Lunatic Asylum Calabar Diet  Outstation hospitals diet and provisions	270 600 200 60	270 0 585 18 237 5 38 1
220 221 222 223	European hospital Opobo diet and provisions Bedding and equipment for ditto, Laboratory Equipment and Upkeep	100 25 35	2 15 3 5 28 3 239 8
223	Vaccination Expenses	350 500	
225 226	Bonuses to persons vaccinating Upkeep of Medical Library	25 10	641 19 11 3 7 5
227 228	Uniforms for Staff	35 15	23 1 1 24 17
230	Transport of stores	30	23 15
	Total £	20,697	19,116 6



TABLE II .- continued.

STATEMENTS OF EXPENDITURE IN THE YEAR 1911 UNDER SUBHEADS AS COMPARED WITH THE ESTIMATES.

	Head 23—Sanitary	Estimates 1911.	Actual Expenditure.
	PERSONAL EMOLUMENTS—WESTERN PROVINCE.	£ _	£ s. d. 50 0 0
	OTHER CHARGES.	moran sa	
7 7a	General Sanitary Sanitary measures, Lagos	1,000	101 1 0 933 13 6
	Total £	1,000	1,084 14 6
	PERSONAL EMOLUMENTS—CENTRAL PROVINCE.	1,024	1,095 8 4
7 19 20	General Sanitary	200	125 17 2 156 6 11
21 22	Uniforms	6 250	9 12 2 3 10 0 299 16 8
23 24 25	vation	100 50 60	98 7 7 41 15 10 21 0 0
20			
	Total £	1,700	1,851 14 8
	PERSONAL EMOLUMENTS—EASTERN PROVINCE.	656	562 16 7
31	Disinfectants	250	227 6 3
32	Sanitary appliances etc., Uniforms	30 17	2 7 7 10 7 11
34	Disposal of Refuse at Government premises and	200	194 5 8
35	grant in aid for sanitary work European reserva-	200	191 5 8
20	tion	300	300 13 2
36 37	Conservancy of Latrines Calabar Upkeep of Clayton Disinfector	800 50	598 4 10 46 1 6
38	Purchase of Miller Brothers Factory at Bonny		
	for Quarantine Station	-	500 0 0
	Total £	2,303	2,442 3 6

TABLE III.
RETURN OF STATISTICS OF POPULATION FOR THE YEAR.

					Europeans and Whites,	Africans.	East Indians.	Chinese and Malays.	Mixed and Coloured.	Remarks
Number	of inhabitan	ts in 191	0		 1,312	*6,700,000	_	-		*Estimated.
,,	Births	during t	he year	1911	 		-	-	-	Not known.
"	Deaths	99	17	1911	 -	-	-	-	-	"
"	Immigrants	***	22	1911	 	-	-	-	-	"
**	Emigrants	29	22	1911	 -	-		-	_	"
Number	of inhabitan	ts in 191	1		 1,648	7,855,749	99	(Mills	487	Census.
Increase	of				 -	-	-	-	-	-
Decreas	e				 -	_		-	-	-

Race or nationality should be specified, as nearly as possible, in accordance with the above model.

# Table IV.

# SUMMARY OF ROUTINE SANITARY WORK DONE DURING THE YEAR IN THE TOWN.

#### 1. Name of Town: -Lagos Municipal Area.

_				Approximate area.	Number of proclaimed open spaces.
1910				18 Square miles	3
1911			***	18 Square miles	3
1912		***			

# 2. Population.

			Number o	of Natives.	Number of	W- 6-1	
			Males.	Females.	Males.	Females.	Total.
1910 1911	 	 	39,293	33,865	572	36	73,766
1912	 	 					

#### 3. Housing.

		Number occupied by Europeans.	Number occ Nativ	
Number of 1910				
1911	 	 205	10,742	inclusive
1912	 	 		of huts.

#### Number of Huts :-

1910	***	 
1911		 
1912		 

#### 4. Mosquito Protection of Houses.

	1910.	1911.	1912.
Number of European houses wholly mosquito protected  Number of European houses with mosquito room  Number rendered during the year wholly mosquito protected  Number rendered during the year partially mosquito protected	33 0 6	2 48 0 15	=

# 5. Erection of New Buildings during the Year.

	1910.	1911.	1912
Number of public buildings erected with sanction as to site,			
Construction, and relation to other buildings.  Number of houses erected with sanction as to site, construction, and relation to other buildings.	-	-	-
Number of huts erected with sanction as to site, construction, and relation to other buildings.	-	-	-
*Number of houses built without sanction	120	132	_

<sup>\*</sup> Building Regulations come into force 1912.

#### Action taken :-

				Numl	ber of I	Prosecuti	ions.			Nu	mber d	emolished	l.
				Huts.			Hous	ses.		Huts.		Н	ouses.
910								-					
911		***											136
912		***											
						6. 1	Mar	kets.					-
						Tota	al nu	mber.	N	umber paved drained.	and	Numbe	er unpayed.
910							10			4			6
911							10			4			6
912					***			-					-
						7. Slaus	ghte	er-houses					-
								mber.		umber paved drained.	and	Numbe	r unpaved.
										trainet.			
910							2 2			2 2		1	-
911 912							2		2				-410
012													
						8.	Lat	rines.					
								Fe	or M	ales.		For Fe	males.
								Number		Number of seats.	Nu	mber.	Number of seats.
Tumber	of Pul 1910 1911 (i 1912		***	***	es, Ba	 arracks	 &c.					41 43	
Tumber	1910 1911 (i 1912 of new	ncludi	ng Gov	t. Offic	es, Ba	rracks	&c.	41 59		219 318		41 43	196 207
	1910 1911 (i 1912 of new	ncludi	ng Gov	t. Offic	es, Ba	rracks	&c.	41 59 —		219 318 —		41 43 —	196 207 —
lumber	1910 1911 (ii 1912 of new 1910 1911	ncludii  Publi	ng Gov  e Latri	t. Offic	es, Ba	urracks	&c. 	41 59 —		219 318 — 70 63		41 43 —	196 207 
umber	1910 1911 (i 1912 of new 1910	ncludi  Publi	 ng Gov  c Latri 	t. Offic	es, Ba	urracks o	&c. the	41 59 —		219 318 —		41 43 —	196 207 —
umber year:	1910 1911 (i. 1912 of new 1910 1911 1912 of Po	Publi	c Latri	nes er	ected	during t	&c the	41 59 —		219 318 — 70 63		41 43 —	196 207 
umber year:	1910 1911 (i. 1912 of new 1910 1911 1912 of Po	ncludi	c Latri	t. Office nes er s repa	ees, Ba	during t	&c the the	41 59 — 10 8 —		219 318 — 70 63 —		41 43 — 10 5 —	196 207 — 70 33
umber year :	1910 1911 (i. 1912 of new 1910 1911 1912 of Po	Publi	c Latri	nes er	ected	during t	&c the	41 59 —		219 318 — 70 63		41 43 —	196 207 - 70 33
umber year :	1910 1911 (in 1912 ) of new 1910 1911 1912 ) of Po	neludi	c Latri	t. Office nes er s repa	ected	during t	&c the the	41 59 — 10 8 —		219 318 — 70 63 —		41 43 — 10 5 —	196 207 - 70 33
umber year: umber year:	1910 1911 (i 1912) of new 1910 1911 1912 of Po 1910 1911 1912 of Pul	Publi	ng Gov	nes er	ected o	during t	&c. the  the	41 59 - 10 8 - 31 40		219 318 — 70 63 —		41 43  10 5  31 40	196 207  70 33
umber year: umber year:	1910 1911 (i 1912 ) of new 1910 1911 1912 ) of Po 1910 1911 1912 , of Po 1910 1911 1912 , of Po 1911 1912 , of Po 1911 ,	Publi ablie I olie La	ng Gov	nes er	ected o	during t during t luring t luring t	&c the the the the the	41 59 - 10 8 - 31 40		219 318 — 70 63 — 149 198 —		41 43  10 5  31 40	196 207  70 33
umber year: umber year:	1910 1911 (i 1912 ) of new 1910 1911 1912 ) of Pu 1910 1911 1912 ) of Pull 1910 1911 1912 )	Publi	c Latri catrines	nes er s repa	ected of the control	during t during t luring t	&c. the  the	41 59 — 10 8 — 31 40		219 318 — 70 63 —		41 43 — 10 5 — 31 40 —	196 207 
umber year: umber year:	1910 1911 (i 1912) of new 1910 1911 1912 of Po 1910 1911 1912 of Pul	Publi	ng Gov	nes er s repa	ected of the control	during t during t luring t luring t	the the the	41 59 — 10 8 — 31 40		219 318 — 70 63 — 149 198 —		41 43 — 10 5 — 31 40 —	196 207 - 70 33 - 126 190
umber year: umber year:	1910 1911 (i 1912 ) of new 1910 1911 1912 ) of Pu 1910 1911 1912 ) of Pull 1910 1911 1912 )	neludi	c Latri	nes er s repa	ected of the control	during t during t luring t luring t	the the the the	41 59 - 10 8 - 31 40		219 318 — 70 63 — 149 198 —		41 43 — 10 5 — 31 40 —	196 207 - 70 33 - 126 190 -
umber year: umber year:	1910 1911 (i 1912 ) of new 1910 1911 1912 ) of Po 1910 1911 1912 ) of Pul 1910 1911 1912 )	neludi	c Latri	nes er s repa	ected of the control	during t	&c the the the	41 59 - 10 8 - 31 40 -		219 318 — 70 63 — 149 198 —		41 43 - 10 5 - 31 40 -	196 207 - 70 33 - 126 190 -
Tumber year: Tumber year: Tumber year:	1910 1911 (i 1912 ) of new 1910 1911 1912 ) of Pu 1910 1911 1912 ) of Pul 1910 1911 1912 )	r Publi ablic I olic La vate I per of [	c Latri c Latri c trines	nes er s repa demoli	ected of the control	during t during t luring t moved d and cl	&c the the the the	41 59 - 10 8 - 31 40 - y pails sub	ostit	219 318 — 70 63 — 149 198 — 17 — tuted		41 43 - 10 5 - 31 40 -	196 207 — 70 33 — 7 — 7 — 7 — 7 — 7 — 7 — 7 — 7 — 7
umber year: umber year: umber year;	1910 1911 (i 1912 ) of new 1910 1911 1912 ) of Pu 1910 1911 1912 ) of Pul 1910 1911 1912 ) of Pul 1910 1911 1912 )	r Public I	c Latri c Latri c trines trines of soiled p	nes er s repa demoli	ected of the ceted	during t during t luring t moved d and cl	&c the the the daily daily ean la	41 59 — 10 8 — 31 40 — 3 — pails subtrines ar	estitud i	219 318  70 63  -  149 198  -  17 -  tuted removed	1910. 800 800	41 43  10 5  31 40  3 1911	196 207 — 70 33 — 7 — 7 — 7 — 7 — 7 — 7 — 7 — 7 — 7
Tumber year: Tumber year: Tumber year: Tumber year: Tumber year:	1910 1911 (i 1912 ) of new 1910 1911 1912 ) of Put 1910 1911 1912 ) of Put 1910 1911 1912 ) of Put 1910 1911 1912 )	r Public I	c Latri c Latrines c Latrines c Latrines	t. Offlic	ected of the control	during t during t luring t moved d and cl	&c the	41 59 — 10 8 — 31 40 — 3 — pails subtrines ar	estitud i	219 318  70 63  -  149 198  -  17 -  tuted removed	1910.	41 43 - 10 5 - 31 40 - 1911	196 207 — 70 33 — 7 — 7 — 7 — — 7 — — — — — — — — —
umber year: umber year: umber year: umber exe umber exe umber	1910 1911 (i 1912 ) of new 1910 1911 1912 ) of Put 1911 1912   of Put 1911 1910 1911 1910 1911 1910 1911 1912   of Put 1910 1911 1910 1911 1912   of Put 1910 1911 1912   of Put 1911 1912   of Pu	r Public I  blic I  or of per of seghtson sespools	c Latri c Latri c trines catrines catrines catrines catrines catrines coiled p men celeans	nes er s repa demoli night ails re emplo	ected of the control	during t during t luring t luring t moved of and cl	&c the the the daily ean a la	41 59 — 10 8 — 31 40 — 3 — pails subtrines ar	stitt	219 318  70 63  -  149 198  -  17 -  tuted removed	1910. 800 800 134 11	41 43 — 10 5 — 31 40 — 3 — 1911 900 900 150	196 207 — 70 33 — 7 — 7 — 7 — 7 — 7 — 7 — 7 — 7 — 7
iumber year: iumber year: iumber year: iumber exc Number exc Number	1910 1911 (i 1912 ) of new 1910 1911 1912 ) of Put 1911 1912   of Put 1911 1910 1911 1910 1911 1910 1911 1912   of Put 1910 1911 1910 1911 1912   of Put 1910 1911 1912   of Put 1911 1912   of Pu	neludi Publi blic I vate I per of s ghtsoi spools v cess	c Latri c Latri catrines trines cleans pools co	t. Office nes er s repa demoli night ails re emplo onstru	ected of the control	during t	&c the	41 59 — 10 8 — 31 40 — 3 — pails subtrines ar ear	ostiti ad i	219 318 — 70 63 — 149 198 — 17 —	1910. 800 800 134 11	41 43 — 10 5 — 31 40 — 3 — 1911 900 900 150	196 207 — 70 33 — 7 — 7 — 7 — 7 — 7 — 7 — 7 — 7 — 7

<sup>\*</sup> In Returns of 1910 Catchpits have been erroneously termed Cesspools.

#### 9. Removal of Refuse.

	1910.	1911.	1912.
Number of dustbins	55	60	1000
Number of carts if employed at work daily to remove refuse from streets	-	20 hand	carts.
Amount of refuse removed daily from streets	130 tons	180 tons	_
Number of carts, if employed at work daily to remove refuse from yards and premises.	-		-
Amount of refuse removed daily from yards and premises			
Number of men employed for moving refuse	200	250	_

# 10. Mode of Disposal of Excreta, Refuse, and Offal.

	nu	Daily average number of pails of excreta.			Daily average number of cartloads of refuse.			Daily average number of eartloads of Slaughter House and Market Offal.		
	1910.	1911.	1912.	1910.	1911.	1912.	1910.	1911.	1912.	
Burnt Fhrown into Sea	800	900	=	=======================================	180 tons	=			-	
Otherwise dealt with		-	-		-	-		-	_	

<sup>\*</sup> State mode of disposal.

# 11. Average daily number of cartloads of tin cans, bottles, broken crockery and other incombustible material removed from houses, huts and compounds.

1910.	1911.	1912.
Not known.	Not known.	-

# 12. Water Supply.

Nature of Water Supply.	1910.	1911.	1912.
Pipe-borne water:			
Source (spring):-			
Number of linear yards	-	3,817	-
Number of stand pipes along roads	-	_	-
Number of stand pipes in compounds and houses		19	-
Vells:			
Public:-	10000		
Number	95	95	-
Number with pumps protected against surface water \	18	18	
and mosquito-protected.	10	10	
Private:-			
Number	-	2,120	_
Number protected against surface water and mos- ?			
quito-protected.			
Canks:—			
Public:-			
Number underground	****		_
Number mosquito-protected and served by pumps		_	-
Number above ground		-	_
Number mosquito-protected	-		-
Number of 400 gallons capacity or less		-	-
Number above 400 gallons		-	-

		Nature	of Wat	er Supp	ly.				1910.	1911.	1912
anks:-											
Private:-											
Numbe	er unde	rgroun	d					***	1	1	1 -
Numbe	er mosq	uito-p	rotect	ed		***			1	1	-
	er abov								383	561	-
	er mosq								256	519	
	er of 40				or less		211			514	
	er abov									47	
Nature of											
Wood									0	****	-
Iron									309	475	-
Concre							****		74	86	-
Barrels:		1000									
Numbe					***				1,337	1,365	-
M. A. A. S.	er mosq								322	365	-

# 13. Drainage.

	Na	ture of a	drainag	e.			Public.	Private.
Iasonry drai	ns:							
Lineal ya		masor	ev dra	ins:-				
1910		***					_	_
1911							18,320	
1912							_	-
Lineal ya		econstr	ucted	during	the v	ear:		
1910							1,356	****
1911							1,000	
1912			****		***		-	-
Lineal ya	rds re	paired	during	g the y	ear:-			
1910							_	_
1911			***					-
1912			***				-	
Lineal y			w dra	tins c	onstru	cted		
during	the ye	ear:-						
1910	***		***		***		1,524	-
1911							1,100	-
1912		***	***				- 1	-
larth drains								
Number o			is or d	itches	cieane	a:		
1910	***	***			***			
1911	***	***	***	***	***			
1912	of Han	***	under of	diamb	on diam		Not recorded.	
Number		ear ya	rus or	orren	es dug	and	Not recorded.	The state of the s
graded 1910								
1911		***	***	***	***	***		
1912	***	***		111	***	***		
verage	free	iency	of clo	oring	ditche	e of		
grass:-		iches	01 - 110	aring	ditent	5 01		
1910							1	
1911		***				***	As required regularly.	
1912		***	***		***	***	restequired regularly.	
2022		***	***	0.00	***	***		

# 14.—Clearance of undergrowth, long grass, and jungle.

	1910.	1911.	1912.
Number of square yards of weeds, grass, and vegetation cut and removed.			-
Average frequency of clearance of rank vegetation on same area.		-	-

# 15. Excavations and low-lying land.

	1910.	1911.	1912.
Number of pools and excavations	_	_	_
Number of excavations filled up		-	
Amount of low-lying and marsh land raised and drained	44,000 Sq. Yards.	15 acres	-
Number of pools, marshes, streams, &c., fish-stocked Number of cubic yards of material used for filling up pools and	-	-	-
excavations		109,998	
Number of persons fined for making new excavations	-	-	
Average number of men daily employed in filling up pools, &c.		-	

# 16. Oiling.

_					1910.	1911.	1912
Number of drains oiled						1,762	-
Number of pools and excavations oiled	***			***	-	5,507	-
Number of tanks and barrels oiled			***	***		*70 tanks	-
Average number of men daily employed for	or oilin	ig dra	ins,	pools,	10	9	
and watertanks or barrels.							-

#### els over-turned—Canoes offed ... ... ...

# 17. Inspections and Prosecutions.

_	1910.	1911.	1912.
	20	1	
Number of inspectors employed	28	28	-
Number of houses inspected	233,181	466,070	
Number of houses where larvæ were found	46,646	61,057	
Number of notices served to remove conditions causing the			
breeding of larvæ	1,212		-
Number of persons fined for having mosquito larvæ on premises	168	728	
value of persons mee for naving mosquito lative on premises			
Number of notices served to remove insanitary conditions on premises.	4,510	4,388	-
Number of persons fined for not removing insanitary conditions after notice.	101	94	-
Number of soda and aerated water factories inspected	2	2	



# 1. Name of Town: -ibadan Railway Reservatory and Barracks and Moor Plantations.

	-		Approximate area.	Number of proclaimed open spaces.
1910 1911 1912		 	2,400 Acres.	_

# 2. Population.

				Number of	Natives.	Number of	Europeans.	Total
				Males.	Females.	Males.	Females.	Total
1910		 						
911	***	 ***		Approx 3,000	-	58	1	3,059
1912	***	 	***		-			

#### 3. Housing.

	-			Number occupied by Europeans.	Number occupied by Natives.
Number of	House	es:	1	nomination	+
1910	***	***	1000		-
1911				33	26
1912					

# Number of Huts :-

1910	 		
1911	 	***	Unknown
1010			

#### 4. Mosquito Protection of Houses.

	1910.	1911.	1912.
Number of European houses wholly mosquito protected Number of European houses with mosquito room	_	2 8	
Number rendered during the year wholly mosquito protected Number rendered during the year partially mosquito protected		2 2	

# 5. Erection of New Buildings during the Year.

	1910.	1911.	1912
Number of public buildings erected with sanction as to site, construction, and relation to other buildings			
and relation to other buildings	-	2	1
and relation to other buildings	-		
Number of houses built without sanction			
umber of huts built without sanction '			

<sup>\*</sup> Building Regulations come into force 1912,

#### Action taken :-

				Num	ber of	Prosecu	tions.			Nu	imber d	emolishe	d.	
				Huts.			Hou	ses.		Huts.		1	House	es.
1910							-	- /					21/27	ATTE
1911							-	-					_	- 2010
1912		***					1777							
						6.	. Mai	rkets.						
						To	otal nu	amber.	Num	ber paved drained.	and	Numb	er ur	npaved.
1010	of the													
1910 1911						11 1000	1		1				1	
1912							-	-		-				-
		-				7. Sla	ughte	er-houses	8011111					-
							200	mber.		ber paved	and	Numbe	or nr	paved.
										drained.		- Author	er un	paveu.
1910	***						14 20	03111						
1911 1912	***							-		_				
1012				***		1								
						8	. Lat	rines.			-			
								Fe	or Male	es.		For Fe	male	s.
													100	
								Number	. N	umber of seats.	Nu	mber.	Nu	umber of seats.
					-			Number	. N		Nu	mber.	Nu	
Number								Number	. N		Nu	mber.	Nu	
Number	1910		***		es, Ba		 s &c.	Number	.   5	seats.	Nu		Nt	
Number		neludi	***		es, Ba			_	.   N		Nu	mber.	Nu	
Number	1910 1911 (ir 1912 of new	reludi	ng Gov	t.Offic	es, Ba	rracks	s &c.	_	.   N	seats.	Nu		Nu	
	1910 1911 (in 1912 of new	Publi	ng Gov  e Latr	t.Offic	ected	rracks  during	the	_	. N	seats.	Nu		Nu	
Number	1910 1911 (in 1912 of new 1910 1911	reludi	ng Gov	t. Offic	es, Ba	rracks	s &c.	_	. N	seats.	Nu		Nu	
Number	1910 1911 (in 1912 of new 1910	Publi	og Gov  c Latr 	t. Offic	ected	during	the	_	. N	seats.	Nu		Nu	
Number year:	1910 1911 (in 1912 of new 1910 1911 1912 of Pu	Publi	e Latr	ines e-	eeted	during	the	_	. 1	seats.	Nu		Nu	
Number year:	1910 1911 (in 1912 of new 1910 1911 1912 of Pu 1910	Publi	e Latr	ines e-	eeted	during	the	- 1 - - -	. 1	6	Nu		Nu	
Number year:	1910 1911 (in 1912 of new 1910 1911 1912 of Pu 1910 1911	Publi	og Gov	ines er	ces, Ba	during	the	_	. 1	seats.	Nu		Nu	
Number year: Number year:	1910 1911 (in 1912 of new 1910 1911 1912 of Pu 1910 1911 1912	Publi	e Latr	ines er	ces, Ba	during during turing	the	- 1 - - -	. 1	6	Nu		No	
Number year: Number year:	1910 1911 (in 1912 of new 1910 1911 1912 of Pu 1910 1911 1912	Publi	atrines	ines er	ces, Ba	during during turing turing	the the the the	- 1 - - -	. 1	6	Nu		No	
Number year: Number year:	1910 1911 (in 1912 of new 1910 1911 1912 of Pu 1910 1911 1912 of Pub	Publi	e Latr	ines er	ces, Ba	during during turing	the	- 1 - - -		6	Nu		Ni	
Number year: Number year:	1910 1911 (in 1912 of new 1910 1911 1912 of Pu 1910 1911 1912	Public La	atrines	ines er	ces, Ba	during during during during	the	- 1 - - -		6	Nu		Ni	
Number year: Number year:	1910 1911 (in 1912 of new 1910 1911 1912 of Pu 1910 1911 1912 of Pub	Publi	c Latr atrine trines	ines er	ces, Ba	during during during during	the	- 1 - - -		6				seats.
Number year: Number year:	1910 1911 (in 1912 of new 1910 1911 1912 of Pu 1910 1911 1912 of Pub	Publi	c Latr atrine trines	ines er	ces, Ba	during during during during	the	- 1 - - -		6	1910.			
Number year: Number year:	1910 1911 (in 1912 of new 1910 1911 1912 of Pu 1910 1911 1912 of Pub 1910 1911 1912	Publi blic L	c Latr c Latr trines	ines er	ces, Ba	during during during during	the	- 1 - 1 -		6 — — — — — — — — — — — — — — — — — — —		1911		seats.
Number year: Number year: Number year:	1910 1911 (in 1912 of new 1910 1911 1912 of Pub 1910 1911 1912 of Pub 1910 1911 1912	Publi blic L dic La	c Latr c Latr atrine trines	ines er	soil re	during	the the the	- 1		6 — — — — — — — — — — — — — — — — — — —		1911	.	seats.
Number year: Number year: Number Averag Averag Number	1910 1911 (in 1912 of new 1910 1911 1912 of Pub 1910 1911 1912 of Pub 1911 1912 of Pub 1911 1912	Publi blic L dic La vate L er of F	c Latr c Latr atrine trines	ines er	soil re	during during during during moved	the the the	- 1 - - 1 -	stitut	6 - 6		1911	.	seats.
Number year: Number year: Number year: Number Averag Averag Number	1910 1911 (in 1912 of new 1910 1911 1912 of Pub 1910 1911 1912 of Pub 1911 1912 of Pub 1911 1912	Public La	atrines	demol	soil reemoved	during during during during during moved i and cooles	the the the the	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	stitut	6 - 6		1911		seats.
Number year: Number year: Number Averag Averag Number exc	1910 1911 (in 1912 of new 1910 1911 1912 of Pub 1910 1911 1912 of Pub 1910 1911 1912 of Pub 1910 1911 1912	Public L  blic L  wate L  er of per of seghtsol  sspools	atrines  atrines  atrines  atrines  atrines  atrines	demol	dired of soil reemoved t	during during during during during during	the the the the the	y pails subtrines an	estitut d rer	6 - 6 noved	1910.	1911 46 74	0 1	seats.
Number year: Number year: Number Averag Averag Number exc *Number Number Number	1910 1911 (in 1912 of new 1910 1911 1912 of Pub 1910 1911 1912 of Pub 1910 1911 1912 of Pub 1910 1911 1912 of Pub 1916 1917 of Pub 1918 1918 of Pub 1919 of Pub 1919 of Pub 1910 1911 1912	Public La wate Ler of per of seghtsoils spools of cessive cess	atrines  catrines  catrines  catrines  catrines  catrines  catrines  catrines	ines er	ces, Ba	during during during during during during	the the the the	1 — 1 — 1 — 1 — 1 — 1 — 1 — 1 — 1 — 1 —	estituted rer	6 - 6 noved		1911	0 1	seats.
Number year: Number year: Number year: Number year: Number with the text of th	1910 1911 (in 1912 of new 1910 1911 1912 of Pub 1910 1911 1912 of Pub 1910 1911 1912 of Pub 1910 1911 1912	Public La wate Ler of per of seghtsoil spools of cesspools of	atrines  catrines  catrines  catrines  catrines  catrines  catrines  catrines  catrines  catrines	demol	ces, Ba	during during during during during during moved i and co clea	the	pails subtrines an	estitut d rer	6 - 6 noved	1910.	1911 46 74	0 1	seats.

<sup>\*</sup> In Returns of 1910 Catchpits have been erroneously termed Cosspools.

#### 9. Removal of Refuse.

	1910.	1911.	1912.
Number of dustbins	-	6	
streets		1	-
Amount of refuse removed daily from streets		3 cwts.	approx.
yards and premises		- 1	
Amount of refuse removed daily from yards and premises	-	5 cwts.	approx.
Number of men employed for moving refuse		10	1 177

#### 10. Mode of Disposal of Excreta, Refuse, and Offal.

	nui	Daily average number of pails of excreta.			Daily average number of cartloads of refuse.			Daily average number of cartloads of Slaughter House and Market Offal.		
	1910.	1911.	1912.	1910.	1911.	1912.	1910.	1911.	1912.	
Burnt		74	=======================================	-	1 1	= -	=======================================	=======================================	1111	

<sup>\*</sup> State mode of disposal.

 Average daily number of cartloads of tin cans, bottles, broken crockery and other incombustible material removed from houses, huts and compounds.

1910.	1911.	1912.
	,	

# 12. Water Supply.

Nature of Water Supply.	1910.	1911.	1912.
Pipe-borne water:—			
Source lake or:-			
Number of Bases words		3,200	
Number of stand since class saids		100	-
Number of stand pines in sampaunds and houses		16	
ells:		11/1/12/2019	
Public:-			
37 1			
	**	440	-
Number with pumps protected against surface water			
Private:-			
		6	-
Number protected against surface water		6	-
The state of the s			
anks:			
Public:-			
Number underground			
Number researches and sent served by purpose		-	
Number above snound		-	-
Number measults protected		- 1	
Number of 400 gallons capacity or less	-		-
Number above 400 callans		-	

		Natur	e of Wate	er Suppl	y.			1910.	1911.	1912.
anks:										
Private:-	-								WOLLDON,	
Numb	er unde	rgrou	nd	***		***	 ***		-	
			rotecte	d			 ***		-	****
	er abov						 ***	-	58	-
			protecte				 	-	56	1
			ons capa		r less		 	-	54	***
Numb	er abov	e 400	gallons				 	-	4	-
Nature of										
Wood	***						 			
Iron							 	-	54	
Concr	ete						 	N STATE OF	4	_
Barrels :-										
Numb							 	alex.	-	-
			rotecte			***	 	-	-	-

#### 13. Drainage.

	Na	ture of	drainag	e.			Public.	Private.
dasonry drai	ns:-							
Lineal ya		masor	irv dra	ains:-				
1910							_	-
1911							_	200
1912							-	
Lineal ya	rds re	econsti	ucted	during	the v	ear:	ALL THE STATE OF T	
1910							_	
1911							-	50
1912								-
Lineal ya	rds re	paired	durin	g the y	ear:-	-01-1		
1910							_	-
1911		***					-	-
1912				***			_	-
Lineal y	ards	of ne	w dra	ains co	onstru	cted		
during	the ye	ear:-						
1910			***		***			-
1911			***				-	100
1912				***	***		-	
arth drains	or dit	ches:-	T 1000					
Number o	f lines	ar yare	is of di	itches o	cleane	d:-		
1910		***	***	***			-	-
1911		***				***		No record.
1912				***			-	-
Number of		ear ya	rds of	ditche	s dug	and		
graded	:							
1910				***				
1911								Told Oct 10 mg 2 mg
1912					***	***	-	_
verage	frequ	ency	of cle	aring	ditche	s of		
grass:-	-							
1910				***				The second second
1911				***		***		About 6 times yearly

# 14.—Clearance of undergrowth, long grass, and jungle.

	1910.	1911.	1912.
Number of square yards of weeds, grass, and vegetation cut and removed		No record.	-
Average frequency of clearance of rank vegetation on same area.	-	About 6 times.	-

#### 15. Excavations and low-lying land.

	1910.	1911.	1912,
Number of pools and excavations		Unknown.	
Number of excavations filled up	-	_	-
Amount of low-lying and marsh land raised and drained  Number of pools, marshes, streams, &c., fish-stocked			
Number of cubic yards of material used for filling up pools and			
excavations			
Average number of men daily employed in filling up pools, &c.		-	-
16. Oiling.			
	1910.	1911.	1912.
Number of drains oiled		None.	
Number of pools and excavations oiled		- 1	
Number of tanks and barrels oiled	-		
Average number of men daily employed for oiling drains, pools, and watertanks or barrels			
and watertanks or barrels			
17. Inspections and Prosecutions.			
	1910.	1911.	1912.
Number of inspectors employed	1910.	1911. None.	1912.
Number of houses inspected	1910.	None. 508	1912.
Number of houses inspected		None. 508 48	1912.
Number of houses inspected	=	None. 508	1912.
Number of houses inspected		None. 508 48	=
Number of houses inspected	=	None. 508 48 None.	Ξ
Number of houses inspected	=	None. 508 48 None.	Ξ

J. D. FINLAY, Medical Officer.



# 1. Name of Town :- Ibadan.

		Approximate area.	Number of proclaimed open spaces.
1910	 		
1911	 	 -	
1911 1912	 		_

# 2. Population.

			Number o	f Natives.	Number of	(Poto)	
			Males.	Females.	Males.	Females.	Total.
1910 1911 1912		 	 268,000		50	5	- 55
1912	***	 	 200,000			-	

# 3. Housing.

				Number occupied by Europeans.	Number occupied by Natives.
Number of	House	es:	1		
1910	***		***		
1911		***		19	60,000
1912					

# Number of Huts:-

1910	 	
1911	 	 Unknown
1912	 ***	

# 4. Mosquito Protection of Houses.

_	1910.	1911.	1912.
Number of European houses wholly mosquito protected Number of European houses with mosquito room Number rendered during the year wholly mosquito protected Number rendered during the year partially mosquito protected	=	5 7 0 0	=

# 5. Erection of New Buildings during the Year.

	1910.	1911.	1 91 2
umber of public buildings erected with sanction as to site,			
construction, and relation to other buildings umber of houses erected with sanction as to site, construction,		2	
and relation to other buildings umber of huts erected with sanction as to site, construction,	-	0	-
and relation to other buildings	-	0	
amber of houses build without sanction			
umber of huts build without sanction			

#### Action taken :-

				Num	ber of I	Prosecu	tions.			Number	demolished	I.	
				Huts.			Hou	ses.	Huts		H	louses.	
910													
911											-		
912	***	****											
						6,	Mai	kets.					
						То	tal nu	imber.	Number pay draine		Numbe	er unpaved.	
910													
911	***	***		***	****		20					20	
912	***	***	***	***	***								
						7. Slav	ighte	er-houses					
						Tot	tal nu	mber.	Number pay draine		Numbe	r unpaved.	
910					***								
911								-			17.	12	
912													
						8.	Lat	rines.					
								Fe	or Males.		For Fer	males.	
			-										
								Number	Number seats.	of N	umber.	Number o seats.	
T l	of Dub	U. T.						Number		of N	imber.	Number o seats.	
Number	r of Pub 1910		***				***			of Ni	umber.		
Vumber	1910 1911 (in	 neludi	ng Gov	t. Offic	ces, Ba	rracks	&c.	_	seats.	of Ni		scats.	
Number	1910 1911 (ir 1912 r of new	neludii	ng Gov	t. Offic	es, Ba	rracks	&c.			of No			
	1910 1911 (in 1912 r of new	neludii  Publi	 ng Gov  e Latri	t. Offic	ected	rracks  during	the	_	seats.	of N		scats.	
Tumber	1910 1911 (ir 1912 r of new	neludii	ng Gov	t. Offic	es, Ba	rracks	&c.	=	seats.	of N <sub>1</sub>	=	seats.	
Tumber	1910 1911 (in 1912 r of new :- 1910	 neludii  Publi	 ng Gov  e Latri 	t. Offic	ees, Ba	rracks  turing 	the	=	seats.	of No	=	seats.	
Tumber year :	1910 1911 (in 1912 r of new 1910 1911 1912 r of Pu	Publi	 ng Gov  c Latri 	t. Office  nes er 	ected	during	the	=	seats.	of No	=	seats.	
Tumber year :	1910 1911 (in 1912 r of new 1910 1911 1912 r of Pu 1910	Publi	 ng Gov  c Latri 	t. Office  nes er 	ected	during	the	=	seats.	of N	=	seats.	
Tumber year:	1910 1911 (in 1912 r of new 1910 1911 1912 r of Pu 1910 1911	Publi	e Latri	nes er	ected of	during during	the		seats.	of N	=	seats.	
Number year: Number year:	1910 1911 (in 1912) r of new 1910 1911 1912 r of Pu 1910 1911 1912	Publi	ng Gov	nes er	ected of	rracks during luring	the		seats.	of No	=	seats.	
Tumber year:	1910 1911 (in 1912) r of new 1910 1911 1912 r of Pu 1910 1911 1912 r of Pub	Publi	ng Gov	nes er	ected of	rracks during luring	the		seats.	of N	=	scats.	
Number year: Number year:	1910 1911 (in 1912 r of new 1910 1911 1912 r of Pu 1911 1912 r of Pub 1911 1912 r of Pub	Publi	ng Gov	nes er	ected of	rracks during luring	the		seats.	of No	=	seats.	
Number year:	1910 1911 (in 1912 r of new 1910 1911 1912 r of Pub 1911 1912 r of Pub 1910 1911 1910 1911	Publi blic La	atrines	nes er	ected of	rracks during turing during during	the the the the		seats.	of No	=	seats.	
Tumber year:	1910 1911 (in 1912 r of new 1910 1911 1912 r of Pu 1911 1912 r of Pub 1911 1912 r of Pub	Publi	ng Gov	nes er s reps demol	ected of	rracks during luring luring	the the the		seats.	of No	=	scats.	
Number year:	1910 1911 (in 1912 r of new 1910 1911 1912 r of Pub 1911 1912 r of Pub 1910 1911 1910 1911	Publi blic La	atrines	nes er s reps demol	ected of	rracks during luring luring	the the the		seats.	1910.		seats.	
Number year: Number year:	1910 1911 (in 1912 r of new 1910 1911 1912 r of Pu 1911 1912 r of Pub:- 1910 1911 1912	Publi blic I	atrines	nes er s reps demol	ected of	rracks during luring during	the		seats.		1911	. 1012.	
Number year: Number year:	1910 1911 (in 1912 r of new	Publi blic La	c Latri catrines trines	nes er s reps demol	ected o	during during during during moved	the the the the		seats.	1910.		seats.	
Number year: Number year: Number Averag Averag Numbe	1910 1911 (in 1912 r of new :	Publi blic La vate I	c Latri c Latri atrines trines atrines	nes er s reps demol night	ected o	during during during during moved i and o	the the the the the	y pails sub	seats.	1910.	1911	seats.	
Number year: Number year: Number Averag Averag Number	1910 1911 (in 1912 r of new :	Publi blic La vate I er of ; eghtsoi	c Latri	nes er s reps demol night	ected of the center of the cen	during during during during moved i and co clea	the the the dail	y pails subtrines ar	seats.	1910.	1911	. 1012.	
Number year: Number year: Number Averag Averag Number	1910 1911 (in 1912 in 1910 1911 1912 in 1910 1911 1912 in of Publication	Publi blic La wate I er of seghtson spools spools	atrines  catrines  catrines  catrines  catrines  catrines  catrines  catrines  catrines  catrines	nes er s reps demol night	ected of aired of ished of soil reemove opyed t	during during during during during during	the the the dail	pails sub trines ar	seats.	1910.		. 1912.	
Number year: Number year: Number year: Number again with the search with the s	1910 1911 (in 1912 r of new :	Publi blic I vate I er of s ghtsoi spools v cess	c Latri catrines trines cleans	nes er s reps demol night	ected of aired of soil reemove oyed t	during during during during during amoved I and cooclea	the the the dail dail the y	pails sub trines ar	seats.	1910.		1012.	

#### 9. Removal of Refuse.

	1910.	1911.	1912.
Number of dustbins			-
Amount of refuse removed daily from yards and premises  Number of men employed for moving refuse	1 - 1	200 lbs. 10 priso- ners.	

<sup>\*</sup>Refuse is generally burnt when collected-amount not known.

#### 10. Mode of Disposal of Excreta, Refuse, and Offal.

	Daily average number of pails of excreta.			Daily average number of cartloads of refuse.			Daily average number of cartloads of Slaughter House and Market Offal.		
	1910.	1911.	1912.	1910.	1911.	1912.	1910.	1911.	1912.
Buried or trenched Burnt Thrown into Sea *Otherwise dealt with	 	30	=		20	==		not kn	own.

<sup>\*</sup> State mode of disposal.

# 11. Average daily number of cartloads of tin cans, bottles, broken crockery and other incombustible material removed from houses, huts and compounds.

1910.	1911.	1912.
_	-	_

# 12. Water Supply.

Nature of Water Supply.	1910.	1911.	1912.
Pipe-borne water:—			
Source (river, lake, or spring:			
Number of linear words			
Number of stand since slave and a			
Virginia of stand since is accommode and because			
Vells:			
Public:—			
		21	-
Number with pumps protected against surface water	r	221 721	
and mosquito-protected		Govt wells	-
Private:-			
Number		very many	-
Number protected against surface water and Mosquito	-		
postantad		None.	
anks.—			
Public:-			
Number and second			_
Number mornite material and sented by summe			
Number chara around			_
Number measults mestacted			_
Number of 400 - House consider on loss			_
Vanilar alam 400 - 11-			_
Number above 400 gallons			

		1910.	1911.	1912.							
Canks:-											
Private:	-										
Numb	er unde	rgroun	d			***					
Numb	er mosq	mita-p	rotecte	d			***	***	-	-	-
Numb	er abov	e grou	nd			***	4440	***	-	28	-
	er mosq			ed		***	441		_	26	-
	er of 40				or less				_	27	
Numb	er abov	e 400 s	rallons						-	1	
Nature of											
Wood									-		-
Iron										20	_
Coner			***					***		8	_
Barrels :-		1553	100	1000		1000		1000			
Numb										_	_
	er mosq										_
27 thirto	er mosd	mree-b	LOLOCOLO	ALE	***	111	***	933			

# 13. Drainage.

	Na	ture of	drainag	904		Public.	Private.	
Masonry drai	ns:-							
Lineal ya	rds of	masor	ery dra	ains:-				
1910				***			_	-
1911								100
1912		***						_
Lineal ya								
1910								
1911								
1912			***				_	_
Lineal ya								
1910			***				-	-
1911								_
1912							_	-
Lineal y								
during								
1910							_	_
1911								100
1912							_	
Earth drains Number o				itches	cleane	d:		
1910	***						477.000	
1911	***	***	***	***	***	***	176,000	35
1912		***		***			-	_
Number of graded		ear ya	rds of	ditch	es dug	and		
1910	***		***				-	
1911	***		***		***		-	-
1912							-	-
verage grass:-		ency	of cle	aring	ditche	s of		
1910								-
1911				***			About once each month	***
1912								

# 14.—Clearance of undergrowth, long grass, and jungle.

	1910.	1911.	1912.
Number of square yards of weeds, grass, and vegetation cut and removed	-	490 Once a	-
ricingo iroquene; or escarance or rank regetation on same area.		year.	

# 15. Excavations and low-lying land.

	1910.	1911.	1912.
Number of pools and excavations		Unknown.	
Number of excavations filled up	-		
amount of low-lying and marsh land raised and drained	-		-
Number of pools, marshes, streams, &c., fish-stocked  Number of cubic yards of material used for filling up pools and	-	-	
excavations		- 1	-
Number of persons fined for making new excavations	77		-
Average number of men daily employed in filling up pools, &c.	1110	-	-
16. Oiling.			
	1910.	1911.	1912
· ·		1	
Tomber of dealers the L			
Number of drains oiled	-		-
Tumber of pools and excavations oiled			-
Average number of men daily employed for oiling drains, pools,			
and watertanks or barrels			-
and naturalization of barrels			
17. Inspections and Prosecutions.			
	1910.	1911.	1912.
Jumber of inspectors employed	_	2	
	=	2 372	
umber of houses inspected	=	372	
umber of houses inspected	Ξ		
umber of houses inspected	Ξ	372	
Sumber of houses inspected	Ξ	372	=
tumber of houses inspected	= = = = = = = = = = = = = = = = = = = =	372	-
umber of houses inspected	= = = = = = = = = = = = = = = = = = = =	372	=
Jumber of houses inspected		372	



.

# 1. Name of Town :- Epe.

-		Approximate area.	Number of proclaimed open spaces.			
1910			 1 sq. mile			
1911			 ,,			
1912			 			

# 2. Population.

			Number	of Natives.	Number of	Europeans.	Total
			Males.	Females.	Males.	Females.	Total
1910	***	 	 6,000	approx	3	1	
1910 1911 1912		 ***	 4,467	4,263	3	0	8,733

# 3. Housing.

	_		Number occupied by Europeans.	Number occupied b Natives.		
Number of	House	es:	1			
1910			***	3	Unknown	
1911				3	"	
1912		***			-	

#### Number of Huts :-

1910	***	 
1911		 

Unknown

1912 ... ... ...

# 4. Mosquito Protection of Houses.

	1910.	1911.	1912.
Number of European houses wholly mosquito protected Number of European houses with mosquito room Number rendered during the year wholly mosquito protected Number rendered during the year partially mosquito protected		3	=

# 5. Erection of New Buildings during the Year.

	1910.	1911.	1912
Number of public buildings erected with sanction as to site,			
construction, and relation to other buildings	2	0	-
Number of houses erected with sanction as to site, construction,			
and relation to other buildings	1	3	-
Number of huts erected with sanction as to site, construction,			
and relation to other buildings			
Number of houses build without sanction	Unknown	Unknown	-
Number of huts build without sanction			

#### Action taken :-

				Num	ber of l	Prosecution	8.		N	umber de	emolished	
				Huts.		Но	uses.		Huts.		Н	ouses.
1910 1911 1912				=		=			=			
	-		1			6. M:	rkets.	1				
	-						number.	Nu	mber pave		Numbe	r unpaved
		-							dramed.			
1910 1911 1912							1		=:			1
			Till			7. Slaugh	ter-houses					9
		-	-			Total r	umber.	Nu	mber pave drained.		Number	runpaved
1910 1911							1 1		1 1		-	
1912											4	
			-			8. La	trines.					
							Fe	or Ma	iles.		For Fen	nales.
			200						Number of		3.00	W
							Number		seats.	Nun	ber.	Number seats.
Number	r of Pul	blic La	trines	-				-	seats.	Nun		
Number	1910 1911 (i	 neludi			es, Ba	 rracks &c	Same by	-		Nun		
Number	1910 1911 (i 1912	neludí	ng Gov	vt. Offic	es, Ba		Same by 2 2 2 -	-	seats.	Nun	2	
	1910 1911 (i 1912 r of nev	includi  v Publi	ng Gov  ic Latr	vt. Offic	es, Ba	luring the	Same bu	-	seats.	Nun	2	
Number	1910 1911 (i 1912 r of nev	neludí	ng Gov	vt. Offic	es, Ba		Same by 2 2 2 -	-	seats.	Nun	2	
Number	1910 1911 (i 1912 r of nev :- 1910	ncludí  v Publ	ng Gov  ic Latr 	vt. Offic	ees, Ba	uring the	Same by 2 2 2	-	seats.	Nun	2	
Number year:	1910 1911 (i 1912) r of nev : 1910 1911 1912	v Publ	ng Gov  ic Latr 	vt. Offic	ees, Ba	luring the	Same bu 2 2 2 -	-	seats.	Nun	2	
Number year:	1910 1911 (i 1912 ) r of nev :	v Publi	ng Gov  ic Latr 	vt. Office  rines er  	ees, Ba	during the	Same bu 2 2 2 —	-	seats.	Nun	2	
Number year:	1910 1911 (i 1912 ) r of nev : 1910 1911 1912 r of Pe	v Publi	 ng Gov  ic Latr  	vt. Office rines er   es repa	ected o	during the	Same bu 2 2 2 —	-	seats.	Nun	2	
Number year: Number year:	1910 1911 (i 1912 ) r of nev 1910 1911 1912 r of Pe 1910 1911 1912 r of Pu	v Publi	ic Latr	vt. Office rines er	ees, Ba	during the	Same by 2 2	-	seats.	Nun	2	
Number year: Number year:	1910 1911 (1912) r of nev:— 1910 1911 1912 r of Poi — 1910 1911 1912 r of Pui — 1910 1911 1912	v Publi	ic Latr	vt. Office rines er	ees, Ba	during the	Same bu 2 2 2	-	seats.	Nun	2	
Number year: Number year:	1910 1911 (1912) r of nev 1910 1911 1912 r of Pt 1910 1911 1912 r of Pul:	v Public I	ic Latr	vt. Office rines er   es repa	ees, Ba	during the	Same bu 2 2	-	seats.	Nun	22 2	
Number year: Number year:	1910 1911 (1912) r of nev:— 1910 1911 1912 r of Poi — 1910 1911 1912 r of Pui — 1910 1911 1912	v Publi	ic Latr	vt. Office rines er   es repa  demoli	ees, Ba	during the	Same bu 2 2	-	seats.	Nun	22 2	
Number year: Number year:	1910 1911 (1912) r of nev 1910 1911 1912 r of Pt 1910 1911 1912 r of Pul:	v Public I	ic Latr	vt. Office rines er   es repa	ees, Ba	during the	Same bu 2 2	-	seats.	Nun	22 2	seats
Number year: Number year:	1910 1911 (1912) r of nev 	v Public I	ic Latrine Latrines	vt. Office or demoli	ees, Ba	during the	Same bu 2 2	-	seats.	a rtition	1 1911.	seats.
Number year: Number year: Number year:	1910 1911 (1912) r of nev:— 1910 1911 1912 r of Pui 1910 1911 1912 r of Pui 1910 1911 1912 r of Pui 1911 1912	v Public I blic La	ic Latrine Latrines	vt. Office vines er  vines er  demoli	ees, Ba	during the	Same bu 2 2	nildin	seats.	a rtition	1 1911.	seats.
Number year: Number year: Number year:	1910 1911 (1912) r of nev:— 1910 1911 1912 r of Pui:— 1910 1911 1912 r of Pui:— 1910 1911 1912 r of Prige number of nereta	v Public I blic La control of the co	ic Latrine Latrines	vt. Office vines er  vines er  demoli	ees, Ba	during the	Same bu 2 2	nildin	seats.	1910.	1 1911. 1911. 1911. 1911.	seats.
Number year: Number year: Number year: Averag Number exc Number	1910 1911 (1912) r of nev:— 1910 1911 1912 r of Pu:— 1910 1911 1912 r of Pui:— 1910 1911 1912 r of Prii; e pumil ge numbr of ni creta r of ces	v Publi  undic I  und	ic Latrine Latrines Latrines latrines latrines latrines	vt. Office vines er  es repa demoli f night pails re emplo	ees, Ba	during the	Same bu 2 2	nild in	seats.	1910.	1 1911. 1911.	seats.
Number year: Number year: Number year: Number Number Number Number	1910 1911 (1912)  r of nev: 1910 1911 1912  r of Pu: 1910 1911 1912  r of Pu: 1910 1911 1912  r of Pui 1910 1911 1912	v Public I when the state of th	ic Latrine Latrine  Latrines   cleans pools c	demoli  or f night pails re emplo	ees, Ba	during the	Same bu 2 2	mild in	seats.	1910.  Inknown 16 16 8 Inknown	1 1911. 1911. 1911. 1911. 8 14	seats.

#### 9. Removal of Refuse.

		1910.	1911.	1912
Sumber of dustbins	from	7	11	
mount of refuse removed daily from streets		unknown	unknown	=
umber of carts, if employed at work daily to remove refuse yards and premises	from	unknown	unknown	
lumber of men employed for moving refuse		12	12	1

#### 10. Mode of Disposal of Excreta, Refuse, and Offal.

	nun	ily avera; iber of pa f excreta	ils	numbe	ily avera er of cart of refuse.	loads	Daily average number of cartloads of Slaughter House and Market Offal.		
	1910.	1911.	1912.	1910.	1911.	1912.	1910.	1911.	1912.
Buried or trenched Burnt Thrown into Sea *Otherwise dealt with	 16 Unknown	8 Unknown	=	Unknown	1/4 Unknown		Unksown		[11]

<sup>\*</sup> State mode of disposal.

 Average daily number of cartloads of tin cans, bottles, broken crockery and other incombustible material removed from houses, huts and compounds.

1910.	1911.	1912.
Unknown	Unknown	

# 12. Water Supply.

Nature of Water Supply.				1910.	1911.	1912.
ipe-borne water:—						
Source (river, lake, or spring):-						
Number of linear yards						-
Number of stand pipes along roads						-
Number of stand pipes in compoun	hous	es				
ells:						
Public:—						
37			2533	5	5	-
Number with pumps protected ag	nrfa	ce w	ater			
and mosquito-protected					1	1
Private:  Number				unknown	unknown	
Number protected against surface				HIKHOW II	till kill will	
				1	1	-
nks.—						
Public:						
Number underground Number mosquito-protected and se		one				
Number above ground						-
Number of 400 gallons capacity or						-
Number above 400 gallons				_		-
Transce and to you Burrows						

		1910.	1911.	1912.							
Canks:											
Private:-											
Number	unde	rgroun	d		****	****	***	200	Nil.	Nil.	
Number				ed							
Number									15	18	
									15	18	1960
Number of 400 college consolty on loss									15	18	
Number									Nil.	Nil.	
Nature of ta											
Wood	***								Nil.	Nil.	-
Iron									9	13	
Concret									6	5	_
Barrels:-								0.00			
Number									Nil.	Nil.	
No. 1											
Number	mosq	uito-p	rotecte	ea	***	***	***	***	27	**	*****

# 13. Drainage.

	Na	ture of	drainag	e.		Public.	Private.	
Iasonry drai	ns:-							
Lineal ya		masor	ry dra	ins:-				
1910							_	10
1911				***		***	-	10
1912	***		***				_	_
Lineal ya	rds re	econsti	ructed	during	g the y	ear:		
1910	***			***			_	-
1911		***		***			_	-
1912			***		***	***		-
Lineal ya		epaired	durin	g the y	ear:			
1910		***	***	***	***	***		
1911 1912	***	***	***	***		***		
	and.	- t - n-	m du	ina a		at ad		-
Lineal y			w dra	uns c	onstru	cted		
during 1910	the ye							
1911			***	***	***	***		
1912							_	
2022			***					
arth drains	or dit	ches:-	-					
Number of	of line	ar yar	ls of di	itches	cleane	d:		
1910	***			***		***	Unknown.	800
1911	***						_	
1912	***		***				_	
Number		ear ya	rds of	ditch	es dug	and		
graded	:							
1910		***	***	***	***	***	Unknown.	300
1911						***		-
1912		***		:		***	-	1
		ency	of cle	aring	ditche	s of		
grass:-							I Indianasan	marine and
1910 1911	***			***	***	***	Unknown.	Twice yearly.
1912	***	***		***	***		_	
1912	***		111	***		***		_

# 14.—Clearance of undergrowth, long grass, and jungle.

	1910.	1911.	1912.
Number of square yards of weeds, grass, and vegetation cut and removed	25,000 Twice yearly.	100,000 Almost con- suant clearing.	-

# xxiii.

# 15. Excavations and low-lying land.

tumber of pools and excavations				-
umber of excavations filled up mount of low-lying and marsh land raised and drained		1910.	1911.	1912
mount of low-lying and marsh land raised and drained Nil. umber of pools, marshes, streams, &c., fish-stocked	The state of the s		Unknown.	_
umber of pools, marshes, streams, &c., fish-stocked Unknown. umber of cubic yards of material used for filling up pools and excavations			Nh.	
umber of cubic yards of material used for filling up pools and excavations				
umber of persons fined for making new excavations	umber of cubic yards of material used for filling up pools and		"	
tember of drains oiled	excavations			
mber of drains oiled			100000000000000000000000000000000000000	
mber of drains oiled	totage names of men and, employed in ming up poors, ever	O IIIII O II III	21111	
mber of drains oiled				
Imber of drains oiled	16. Oiling.			
mber of pools and excavations oiled	_	1910.	1911.	191:
mber of pools and excavations oiled	umber of drains oiled	Unknown.	Nil.	
rerage number of men daily employed for oiling drains, pools, and watertanks or barrels	unber of pools and excavations oiled	**	99	
and watertanks or barrels		**	**	-
mber of inspectors employed		Nil.		-
mber of inspectors employed				
Imber of inspectors employed	17. Inspections and Prosecutions			
imber of houses inspected	_	1910.	1911.	1912
Imber of houses inspected	umber of inspectors employed	(1 Irregularly).	Nil.	
breeding of larvæ	umber of houses inspected	000		
breeding of larvæ		Unknown.	33	
mber of persons fined for having mosquito larvæ on premises mber of notices served to remove insanitary conditions on premises		180	36	the same
mber of notices served to remove insanitary conditions on premises				
mber of persons fined for not removing insanitary conditions after notice	umber of notices served to remove insanitary conditions on	100	=0	
after notice		180	76	-
		30	14	-
		Nil.	Nil.	-

N. S. CLARK, Medical Officer.

Epe, 6th January, 1912.



#### 1. Name of Town :- Aro.

	-		Approximate area.	Number of proclaimed open spaces.
1910 1911 1912			 ½ sq. mile	
911	***	***	 **	
912			 	

# 2. Population.

				Number	of Natives.	Number of	Total.	
				Males.	Females.	Males.		. Females.
1910			 	200	120	14		334
1911			 	250	140	18		358
1912			 					1

#### 3. Housing.

				Number occupied by Europeans.	Number occupied by Natives.		
Number of	House	s:-	1				
1910		***		9	51		
1911				9	51		
1912				-			

#### Number of Huts: -

1910	 	 1	6
1911	 	 1	8
1912	 	 	1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1

#### 4. Mosquito Protection of Houses.

	1910.	19;1.	1912.
Number of European houses wholly mosquito protected Number of European houses with mosquito room Number rendered during the year wholly mosquito protected Number rendered during the year partially mosquito protected	9	9	=

# 5. Erection of New Buildings during the Year,

	1910.	1911.	1912
Sumber of public buildings erected with sanction as to site, construction, and relation to other buildings		_	-
and relation to other buildings			
and relation to other buildings		2	
Number of houses build without sanction	100000		
Number of huts build without sanction		-	-

Number of Public Latrines :—  1910					Num	ber of l	Prosect	ntions.			Nu	mber der	nolished.	
1911					Huts.			Hou	ses.		Huts.		Но	uses.
	1910								-				_	-41110
1910					-								-	-
Total number.   Number paved and drained.   Number unpaved and drained.   Number of seats.   Number unpaved and unpaved unpaved and unpaved unpaved and unpaved unpaved unpaved and unpaved	1912	***	***											
1910							6	. Mai	kets.					
10							Т	otal nu	imber.	N		and	Number	unpaved.
10	910													
Total number.   Number paved and drained.   Number unpaved and drained.   Number unpaved and drained.   Number unpaved and drained.   Number unpaved and drained.   Number of public series.   S. Latrines.   For Males.   For Males.   Number of Public Latrines   Number of Number of Number.   Number of seats.   Number of new Public Latrines erected during the year:	911													-
Total number.   Number paved and drained.   Number unpaved and drained.   Number unpaved and drained.   Number unpaved and drained.   Number unpaved and unpaved	912								•		_			_
State   Stat							7. Sla	ughte	er-houses.					
Statrines   Stat							To	otal nu	mber.	N		and	Number	unpaved.
Statrines   Stat												1		
S. Latrines.   For Males.   For Females.								-						
For Males   For Females									_					
For Males   For Females														-
Number of Public Latrines :—								3. Lat	rines.			1		
Number of Public Latrines :—  1910									Fe	or M	fales.		For Fem	ales.
1910									Number			Num	ber.	Number o seats.
1910	Virmbor	of Pul	die Le	teinos										
Number of new Public Latrines erected during the year:—  1910	Number	1910			***				1		4			-
Number of new Public Latrines erected during the year:—  1910									1		4	-		-
1910														-
1910			Publi	c Latr	ines er	ected	during	g the						
Number of Public Latrines repaired during the year:  1910	year.			***								-		-
Number of Public Latrines repaired during the year:—  1910		1911									-	-		-
1910		1912		****	***	***	***	* ***	-		-	-	-	-
Number of Private Latrines  Number of Private Latrines  A verage number of pails of nightsoil removed daily  A verage number of soiled pails removed and clean pails substituted  Exercise  Number of nightsoil men employed to clean latrines and removed  excreta  Number of cesspools  Number of cesspools constructed during the year  Number of old cesspools abolished			iblic I	atrine	s repa	aired o	luring	the						
Number of Public Latrines demolished during the year:  1910		1910	***			***			-		-	-	-	
Number of Public Latrines demolished during the year:  1910												-		150
Number of Private Latrines									2 11		211. 3			
Number of Private Latrines			olie La	trines	demol	ished o	during	the .						
Number of Private Latrines	Jear .			***					-		_	1 2 000		-
Number of Private Latrines		1911							1			-	- 6	
Number of Private Latrines		1912			***			***	-		-	-	-	-
A verage number of pails of nightsoil removed daily					7							1910.	1911.	1912.
A verage number of pails of nightsoil removed daily														
Average number of soiled pails removed and clean pails substituted 20 21  Number of nightsoil men employed to clean latrines and removed excreta														-
Number of nightsoil men employed to clean latrines and removed excreta         2         2           Number of cesspools	Averag	e numb	er of	soiled	nails re	SOH FC	d and	clean	pails sub					-
excreta                     2   2												20	-1	
Number of cesspools cleansed	exc	creta		***										-
Number of new cesspools constructed during the year														WILLIAM .
Number of old cesspools abolished														
	Numbe	r of old	cessp	ools al	oolishe	d							1993	-
Number of cesspools oiled regularly by Department													-	

,	1910.	1911.	1912.
Vandan of doubling			
Number of dustbins	_	1000	-
Number of carts at work daily to remove refuse from streets			-
Amount of refuse removed daily	9 barrels	12 bar-	-
Number of carts, at work daily to remove refuse from yards and premises		rels	
Amount of refuse removed daily from yards and premises	9 barrels	12 bar-	-
	1	rels	
Number of men employed for moving refuse	2	2	200

#### 10. Mode of Disposal of Excreta, Refuse, and Offal.

	nun	ily avera aber of p of excreta	ails	numbe	ily avera er of bar of refuse	rels	Daily average number of cartloads of Slaughter House and Market Offal.		
	1910.	1911.	1912.	1910.	1911.	1912.	1910.	1911.	1912.
Buried or trenched Burnt Thrown into Sea *Otherwise dealt with	 20 	21		9	12				

<sup>\*</sup> State mode of disposal.

11. Average daily number of cartloads of tin cans, bottles, broken crockery and other incombustible material removed from houses, huts and compounds.

1910.	1911.	1912.
	_	_

Nature of Water Supply.	1910.	1911.	1912.
Pipe-borne water:—			
Source (river, lake, or spring):-			
Number of linear yards	_		-
Number of stand pipes along roads			_
Number of stand pipes in compounds and houses	-		-
Wells:			
The state of the s			
Public:— Number			
Number with pumps protected against surface water			
and magnifu matastad			
Private:-			
Number	-		
Number protected against surface water and Mosquito-		1	
protected		-	-
Tanks.—			
Public:-			
Number underground	-		
Number mosquito-protected and served by pumps	-	-	-
Number above ground	-	-	-
Number mosquito-protected	-	-	
Number of 400 gallons capacity or less		-	-
Number above 400 gallons		-	

			1910.	1911.	1912.						
anks:											
Private:-											
Number	r unde	rgroun	id		***	***	***	***			1 1400
Number				d						-	-
Number									10	40	-
Number	r moso	uito-p	rotecte						40	40	****
Number	r of 40	0 galle	ons capa	city o	r less				38	38	1000
Number									2	2	-
Nature of t											
Wood									-	-	-
Iron									38	38	-
Concret									2	2	-
Barrels:			1000	10000	100						
Number	r								-		-
Number		uito-p	rotecte					***	-	*	-

# 13. Drainage.

	Na	ture of e	drainag	e.			Public.	Private.
dasonry drai	ns:							
Lineal ya		masor	ary dra	ins:-				
1910						***	_	-
1911				***	***	****		-
1912								-
Lineal ya	rds re	econstr	ucted	during	the y	ear:		
1910	***			***				****
1911		***					_	-
1912			***		***		_	2000
Lineal ya	rds re	quaired	during	g the y	ear:			
1910		***					-	
1911					***			
1912	***		***		***	***		-
Lineal y			w dra	ams c	onstru	cted		
during		ear:						
1910	***	**		***	***			-
1911	***	***	***	***	***			
1912	***					***		-
Carth drains	or dir	ahoe .						
Number				itches	eleane	d		
1910	, inne	er Seri	us or u	itenes	···		About 2,000 yards.	
1911							2100de 2,000 jards.	
1912								_
Number								
graded								
1910								-
1911								-
1912			****				-	-
Average	frequ	iency	of ele	aring-	ditche	s of		
grass:-								
1910		***			***		Three times yearly.	-
1911								
LULL								

	1910.	1911.	1912.
Number of square yards of weeds, grass, and vegetation cut and removed		½ sq. mile.	-

# · xxix.

## 15. Excavations and low-lying land.

Tumber of pools and excavations			
Immount of low-lying and marsh land raised and drained		-	
Cumber of pools, marshes, streams, &c., fish-stocked — — — — — — — — — — — — — — —			 
Cumber of cubic yards of material used for filling up pools and excavations	mount of low-lying and marsh land raised and drained		
Cumber of cubic yards of material used for filling up pools and excavations	umber of pools, marshes, streams, &c., fish-stocked	-	-
excavations			
immber of persons fined for making new excavations			
verage number of men daily employed in ning up pools, &c.			
	verage number of men daily employed in filling up pools, &c.		 -

					1910.	1911.	1912.
Number of drains oiled					_		
Number of pools and excavations oiled					No record.	23	-
Sumber of tanks and barrels oiled	***	***				-	-
verage number of men daily employed	for oil	ing dra	ains, p	ools,			
and watertanks or barrels							-

#### 17. Inspections and Prosecutions.

	1910.	1911.	1912.
Sumber of inspectors employed			
	No record.	11	
	No record.	T	
breeding of larvæ		-	
number of persons fined for having mosquito larvae on premises number of notices served to remove insanitary conditions on	-	-	
premises	-	-	
after notice	-		
Number of soda and aerated water factories inspected	-		-

<sup>\*</sup> Many burrow pits along railway.
| Sanitary gang ones a week.
| 110 houses weekly.
| Average of about 55 weekly.





	1 37		r manner				
- Addition to			f Town :—Ab	cokuta		umber of proclai	med
ANKINE		pproxi	and areas		4041	open spaces.	
1910 1911		Unk	nown			Unknown	
1912		-	-				
Management of the second		2. 1	Population.				
	Nu	mber o	of Natives.	Nu	unber of E	uropeans.	Total.
	Mal	les.	Females.	М	ales.	Females.	TOTAL.
1910							
1911	73,00	00	_	-	19	5	73,024
-		1					
		3.	Housing.				
		Nu	mber occupied   Europeans.	by		r occupied by latives.	
Number of House	s:		Salara Sa				
1910 1911			14		36	5,275	
1912		le la					
Number of Hut 1910	s:-		_		_	_	
1911			1,640		-	_	
1912			-		-	E RESTRICT	
	4. M	Iosqui	to Protection	of Ho	uses.		
	_				1910.	1911.	1912.
Number of European houses							-
Number of European houses Number rendered during the Number rendered during the	year wholly	y mose	quito protecte	d			
Number rendered during ene	year partia	ily mo	squito protect				
5.	Erection of	New	Buildings dur	ing th	e Year.		
					1910.	1911.	1912.
				200			
Number of public building construction, and relation Number of houses erected w	on to other b ith sanction	as to	gs site, construc	tion,	Unknov	vn Unknown	_
Number of huts erected wit and relation to other but	h sanction a		site, construc	tion,	-		
Number of houses build with Number of huts build without	out sanction					_	_

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				Num	ber of	Prosecu	tions.			Nu	mber de	molished	d.
				Huts.			Hou	ses.		Huts.		F	louses.
910							5					16	- 100
1911							1	6			-		125
1012													
-						6.	Mar	kets.					
			-			То	tal nu	ımber.	Nu	mber paved drained.	and	Numbe	er unpaved.
910													
911 912				***			17						17
						7. Sla	ughte	er-houses.					
		-				Tot	tal nu	mber.	Nu	mber paved drained.	and	Numbe	er unpaved.
910							-	4					
911 912								-		-			
012	***					1000	4114						
						8.	. Lat	rines.					
								Fe	or Ma	iles.		For Fe	males.
			_							Number of		10 8	Number of
								Nutaber		seats.	Num	ber.	seats.
Number	of Pub	lie La	trines .	_				Number			Num	ber.	
Number	of Pub 1910 1911 (in				ces. Ba		 &c.	Nutaber			Num	ber.	
Number						 uracks		Number			Num	ber.	
Number	1910 1911 (in 1912 of new	neludi	ng Gov	t. Offi	ces, Ba		&e.	=			Num	ber.	
	1910 1911 (in 1912 of new 1910	 neludi  Publi	ng Gov	t. Offi	ces, Ba		&e.	=			Num	ber.	
Number	1910 1911 (in 1912 of new 1910 1911	Publi	ng Gov  ic Latri 	t. Officines er	ces, Ba	 during 	the	=			Num	ber.	
Number year:	1910 1911 (in 1912 of new 1910 1911 1912 of Pu	Publi	ng Gov	t. Officines er	ces, Ba	during	the	=			Num	ber.	
Number year:	1910 1911 (in 1912 of new 1910 1911 1912 of Po	Publi	ng Gov	t. Officines er	ces, Ba	during	the	=		seats.	Num	ber.	
Number year:	1910 1911 (in 1912 of new 1910 1911 1912 of Pu 1910 1911	Publi	ng Gov	t. Officines en	ces, Ba	during during during	the				Num	ber.	seats.
Number year: Number year:	1910 1911 (in 1912 of new 1910 1911 1912 of Pu 1910 1911 1912	Publi	ng Gov	t. Officines en	ces, Ba	during during during	the			seats.	Num	ber.	seats.
Number year: Number year:	1910 1911 (in 1912 of new 1910 1911 1912 of Pu 1910 1911 1912	Publi blic I	ng Gov	t. Officines en	ces, Ba	during during during	the the the the			seats.	Num	ber.	seats.
Number year: Number year:	1910 1911 (in 1912 of new 1910 1911 1912 of Put 1910 1911 1912 of Put	Publi	ng Gov	t. Officines er	ces, Ba	during during during during	the			seats.		ber.	seats.
Number year: Number year:	1910 1911 (in 1912 of new 1910 1911 1912 of Put 1910 1911 1912 of Put	Publi blic I	ng Gov	t. Officines en	ces, Ba	during during during during	the the the			seats.			seats.
Number year: Number year:	1910 1911 (in 1912 of new 1910 1911 1912 of Put 1910 1911 1912 of Put	Public La	ic Latri	t. Offi-	ces, Ba	during during during during	the the the			seats.			seats.
Number year: Number year:	1910 1911 (in 1912 of new 1910 1911 1912 of Pul 1911 1912 of Pul 1910 1911 1912 1910	Publi iblic I	ic Latri	t. Officines er	ces, Ba	during during during	the the the			seats.			seats.
Number year: Number year: Number year:	1910 1911 (in 1912) of new 1910 1911 1912 of Pul 1910 1911 1912 r of Pul 1911 1912	Publi blic La	ng Gov	t. Officines er	ces, Ba	during during during during	the the the			seats.			seats.
Number year: Number year: Number year:	1910 1911 (in 1912 of new 1910 1911 1912 of Pul 1910 1911 1912 r of Pul 1911 1912 r of Pul 1911 1912	Public I	atrines	t. Office ines er	ces, Ba	during during during during	the the the	y	ostit	seats.	1910.		seats.
Number year: Number year: Number A verag A verag Number	1910 1911 (in 1912 of new 1910 1911 1912 of Pul 1910 1911 1912 r of Pul 1910 1911 1912 r of Pri 1910 1911 1912	Public I	atrines	t. Office ines er	ces, Ba	during during during during during	the the the the		ostit	seats.	1910.		1. 1912
Number year: Number year: Number A verage A verage Number	1910 1911 (in 1912 of new 1910 1911 1912 of Pul 1910 1911 1912 r of Pul 1910 1911 1912 r of Pri 1910 1911 1912 r of Pri 1910 1911 1912	Public I	atrines catrines itrines itrines	t. Officines er	ces, Ba	during during during during during	the the the the the	y pails subtrines ar	ostitud re	seats.	1910.	1911	1912
Number year: Number year: Number A verag A verag Number exe	1910 1911 (in 1912 of new 1910 1911 1912 of Pul 1910 1911 1912 r of Pul 1910 1911 1912 r of Pul 1911 1912 r of Pri ge numb ge numb r of ni creta r of ces r of ces	Public I  blic I  concluding the second seco	atrines catrines catrines catrines catrines catrines catrines catrines	t. Office	ces, Ba	during during during during during	the the the	y pails sultrines ar	ostitud r	seats.	1910.	1911	1912
Number year: Number year: Number Averag Averag Number Number Number	1910 1911 (in 1912 of new 1910 1911 1912 of Pul 1910 1911 1912 r of Pul 1910 1911 1912 r of Pri 1910 1911 1912 r of Pri 1910 1911 1912	Public I  blic La  vate I  er of server spools  spools  v cess  cessp	atrines  clarines ctrines cleans pools cools ab	t. Office ines er	ces, Ba	during during during during during emoved d and coclea	the	pails sultrines ar	ostitud re	seats.	1910.	1911	1. 1912

	1910.	1911.	1912.
Number of dustbins	Not known,	Not known.	111 111

#### 10. Mode of Disposal of Excreta, Refuse, and Offal.

	Daily average number of pails of excreta.			numbe	ily avera er of bar of refuse	rels	Daily average number of cartloads of Slaughter House and Market Offal.		
	1910.	1911.	1912.	1910.	1911.	1912.	1910.	1911.	1912.
Buried or trenched Burnt Thrown into Sea *Otherwise dealt with		11111		13.11				1111	1111

<sup>\*</sup> State mode of disposal.

11. Average daily number of cartloads of tin cans, bottles, broken crockery and other incombustible material removed from houses, huts and compounds.

1910.	1911.	1912.

Nature of Water Supply.		1910.	1911.	1912
ipe-borne water:—				
Source (river, lake, or spring):-				
Number of linear yards		 -	-	
Number of stand pipes along roads		 -		
Number of stand pipes in compounds an	d houses			
Vells:				
Public:-				
Number		 4	4	
Number with pumps protected against	surface			
and mosquito-protected		 1	1	-
Private:-				
Number			2,118	
Number protected against surface wate	the second second		2,110	
protected	****	 _	_	-
anks:—				
Public:				
Number underground				- 1000
Number mosquito-protected and served				_
Number above ground		1		
Number mosquito-protected Number of 400 gallons capacity or less		-		
Number of 400 gallons capacity of less				_
Number above too gamons	***			

#### xxxiv.

		Nature	of Wate	er Supp	ly.				1910.	1911.	1912.
anks:											
Private:-											
Number	unde	rgroun	d	***						1	-
Number				ed						-	-
Number										33	-
Number										_	-
Number									Not known.	_	-
Number	ahov	e 400 s	rallons						6	-	-
Nature of ta	nks -	_ 100 8	year one	***			***	7.0	E C		
Wood	***								-	-	
Iron		***							S <sub>o</sub>	34	
Concret			***	***				333	~	2	
Barrels:	· · · ·	***	***		****	***	***			-	
								2018		10	
Number		***	***	***	***	***	***	***		16	
Number	mosq	uito-p	rotecte	ed	***			***		-	-

## 13. Drainage.

	Nature of drainage.						Public.	Private.	
Masonry drai	ns:							The second section sec	
Lineal ya		mason	nrv dra	ins:-					
1910							600 yards.	_	
1911							_	_	
1912								_	
Lineal ya									
1910								_	
1911							100 yards.	_	
1912							_	-	
Lineal ya									
1910							-	_	
1911							_	_	
1912								_	
Lineal y	ards	of ne			onstru	cted			
during									
1910							_	-	
1911				***				-	
1912							_	_	
Earth drains	or dit	ches:-	-						
Number o	f line:	ar var	ds of d	itches	cleane	d:-			
1910							7 miles.	_	
1911							16¼ miles.		
1912							_	_	
Number of	of line	ear va	rds of	ditch	es dug	and	Control of the last of the las		
graded:									
1910							7 miles.	_	
1911							16½ miles,	and the second second	
1912							_	_	
Average	frequ		of cle		ditche				
grass :-									
1910							Monthly.	_	
1911							Monthly.		
1912								_ 00	
A-CAM						111			

		1910.	1911.	1912.
manage and a second	weeds, grass, and vegetation cut a	and		

# 15. Excavations and low-lying land.

Number of pools and excavations				
Number of excavations filled up Amount of low-lying and marsh land raised and drained Number of pools, marshes, streams, &c., fish-stocked Number of cubic yards of material used for filling up pools and excavations Number of persons fined for making new excavations Number of persons fined for making new excavations Average number of men daily employed in filling up pools, &c.  16. Oiling.  1910. 1911. 191  Number of drains oiled Number of pools and excavations oiled Number of tanks and barrels oiled Average number of men daily employed for oiling drains, pools, and watertanks or barrels  17. Inspections and Prosecutions.  17. Inspections and Prosecutions.  1910. 1911. 1913. 1915. 1916. 1916. 1917. 1917. 1918. 1919. 1		1910.	1911.	1912.
Amount of low-lying and marsh land raised and drained			1,512	_
Number of drains oiled	Amount of low-lying and marsh land raised and drained	II.XX	-	
Number of drains oiled		kno		-
Number of drains oiled	excavations	ot	-	
Number of drains oiled		. 4	_	1912
Number of drains oiled	16. Oiling.			
Number of pools and excavations oiled	_	1910.	1911.	1912
Number of pools and excavations oiled				
Number of tanks and barrels oiled			_	
And watertanks or barrels	Number of tanks and barrels oiled	-	-	
Number of inspectors employed		-	-	-
Number of inspectors employed	17. Inspections and Prosecutions			
Number of houses inspected	_	1910.	1911.	1912.
Number of houses inspected	Number of inspectors employed	22	15	_
Number of notices served to remove conditions causing the breeding of larvæ	Number of houses inspected	3,220	The second secon	-
breeding of larvæ		-		
premises 1,254 1,376  Number of persons fined for not removing insanitary conditions after notice	breeding of larvæ	-		-
after notice 5   13   -	premises	1,254	1,376	
		5	13	
	No. 1 and a state of a state of the state of	_		-

A. OYEJQLA,

Medical Officer.

Egbå Government.



#### 1. Name of Town :- Warri-

	-		Approximate area.	Number of proclaimed open spaces.
910		 	450 Acres	_
911		 	800 "	
012		 		

#### 2. Population.

				Number of Natives. Number of Europeans.			Number of Europeans.		
				Males.	Females.	Males.	Females.	Total	
1910	***				known	83	5	11200	
1911	***	***	***	 2,4	49	80	4	-	
1912				 					

#### 3. Housing.

				Number occupied by Europeans.	Number occupied by Natives.		
Number of	House	s:-	1				
1910		***		16	Not known		
1911				19	55		
1912							

Number of Huts:-

1910		 	See houses above
1911		 	
1912	- 0.00	 	The same of the sa

#### 4. Mosquito Protection of Houses.

	1910.	1911.	1912.
Number of European houses wholly mosquito protected Number of European houses with mosquito room Number rendered during the year wholly mosquito protected Number rendered during the year partially mosquito protected	None 7 None 5	None 13 None 6	=

# 5. Erection of New Buildings during the Year.

	1910,	1911.	1912.
Number of public buildings erected with sanction as to site, construction, and relation to other buildings  Number of houses erected with sanction as to site, construction,	5	7	_
and relation to other buildings	18	24	_
and relation to other buildings	Unknown	Unknown	
Number of houses build without sanction			-
Number of huts build without sanction		-	-

#### xxxviii.

Total number.   Number paved and drained.   Number unpaved.							Actio	on ta	iken:-				-	
10					Num	ber of l	Prosecut	ions.			N	umber den	olished.	
					Huts.			Hou	ses.		Huts.		Hou	ses.
	010													00000
													100	
Total number.   Number paved and drained.   Number unpaved.	1912				-			_		1			100	_ 1118
Total number.   Number paved and drained.   Number unpaved.							6	Mai	rkets	1			-	
1										Num	hos navoi	land		
1							Tot	tal nu	amber.	Num	drained.	tand	Number	inpaved.
1	910							1			1			1
Total number.   Number paved and drained.   Number unpaved.	911							1			î			
Total number.   Number paved and drained.   Number unpaved.	912							-			-		-	
Total number.   Number paved and drained.   Number unpaved.							7. Slau	ghte	er-houses		V.			
Statrines   Stat							1					l and	Number t	inpaved.
1											dramed.			
S. Latrines.   For Males and Females.   Number of Seats.   Number of Seats.	910				***			Saul.	AP III		_		-	
Sumber of Public Latrines :	911 912							1			1		-	
For Males and Females.   Number of Seats.   Number of Public Latrines:—   1910														
Number of Public Latrines :—   1910							8.	Lat	rines.			1		
Number of Public Latrines :—   1910									For Male	es and	Females.	- 1/10		
1910									Number	. N				
1910														
1911 (including Govt. Offices, Barracks &c.   8   58	Numbe								5		9.4			
Sumber of new Public Latrines erected during the year:						es, Ba	rracks	&c.						_
1910				-					_			1		-
1910	Numbe	r of new	Publi	c Latr	ines er	ected	during	the				1 1/8		
1911	year								0		10	1		
Sumber of Public Latrines repaired during the year:—  1910									2 2					_
1910									-			_		
1910			ıblic I	atrine	es repa	ired o	luring	the				1		
Number of Public Latrines demolished during the year:  1910	year			***							_	-		-
Number of Public Latrines demolished during the year:—  1910									3		24	-		-
Year:—  1910		1912	***	***	****	***		***	-		1			
Number of Private Latrines			blic La	trines	demoli	shed o	during	the						
Number of Private Latrines	D. Cotta	1910		***					-		_	_		_
Number of Private Latrines									1		-	-		The
Number of Private Latrines		1912	***	***	***		***	***	-			-		
Average number of pails of nightsoil removed daily					_							1910.	1911.	1912.
Average number of pails of nightsoil removed daily	Variable	D	and a	-4-1								Turke		
Average number of soiled pails removed and clean pails substituted  Number of nightsoil men employed to clean latrines and remove excreta (only partly thus engaged)	Averag	ge numb	er of	pails of	fnight	soil re	moved	dail	y					_
excreta (only partly thus engaged)	Averag	ge numb	per of s	soiled p	pails re	move	d and c	lean	pails sub	stitut	ed		113	-
Number of cesspools	ex	creta (o	nly pa	rtly th	nus eng	aged)	o cieal						34	-
Number of cesspools cleansed	Numbe	r of ces	spools		***							None.		
Number of old cesspools abolished	Numbe	r of ces	spools	cleans										
Sumber of cesspools oiled regularly by Department							70	-						
											77.0			
					9		- John C			-		"	,,	

	1910.	1911.	1912.
Number of dustbins	54 *	54	=
Amount of refuse removed daily from yards and premises  Number of men employed for moving refuse (Partly thus engaged)	Unknown. do.	Unknown. do. 24	

\* 4 Surf boats full.

#### 10. Mode of Disposal of Excreta, Refuse, and Offal.

	num	Daily average number of pails number of barrels of exercta.  Daily average number of barrels of refuse.			Daily average number of cartloads of Slaughter House and Market Offal.				
	1910.	1911.	1912.	1910.	1911.	1912.	1910.	1911.	1912.
Buried or trenched Burnt		_		_				_	_
Chrown into Sea	_					-		-	_
Otherwise dealt with a) Thrown into tided water	-	-		-	-	-	-	INT.	
	not known.	119	=	4	4	=	_	=	=

<sup>\*</sup> State mode of disposal. † Not ascertainable.

# 11. Average daily number of cartloads of tin cans, bottles, broken crockery and other incombustible material removed from houses, huts and compounds.

1910.	1911.	1912.
Not known.	Not known.	_

Nature of Water Supply.	1910.	1911.	1912.
Pipe-borne water:—			B
Source (river, lake, or spring):-			
Number of linear yards			
Number of stand pipes along roads		-	
Number of stand pipes in compounds and houses		0.00	
Vells:			
Public:—			
	6	6	
Number		0	
and mosquito-protected	6	6	
		0	
Private:-	90	00	
Number	33	33	-
Number protected against surface water and Mosquit		10	
protected	13	12	_
fanks:—			
Public:-			
Number underground		-	_
Number mosquito-protected and served by pumps			_
		-	-
			-
	—		-
Number above 400 gallons			-

		N	1910.	1911.	1912.						
Tanks											
Pr	ivate:-										
	Number	underg	round		 				7 7	7	
	Number								7	7 7	-
	Number a				 	***			-	85	
	Number								Unknown.	85	
	Number				r less		***			6	
	Number a				 				-	86	-
Na	ture of tar										
	Wood				 				-		-
	Iron				 				Unknown.	74	
	Concrete				 					18	-
Ba	rrels:-			-110							
-	Number				 				_	1000	-
	Number								- 1		

# 13. Drainage.

	Nat	ture of	drainag	e.			Public.	Private.
asonry drai	ns:-							
Lineal ya		masor	ary dra	ains:-				
1910							Not known.	_
1911							220	Not known.
1912								-
Lineal ya	rds re	consti	ructed	during	the y	ear:		
1910						***	-	-
1911							-	
1912							=	-
Lineal ya	rds re	paired	during	g the y	ear:-	-		
1910			***		***		Not known.	-
1911							100	Not known.
1912				***		***	-	-
Lineal y	ards	of ne	w dra	uins c	onstru	cted		
during	the ye	ar:-						
1910			***	***	***	***	_	-
1911			***	***				
1912			***	***		•••	- 10 - 1	-
arth drains	or dit	ches -						
Number	of lines	or vary	ls of di	itches	cleane	d :		
1910							-	_
1911								
1912							_	_
Number								
graded								
1910								-
1911						***	Not known.	Not known.
1912								_
Average	frequ	ency	of ele		ditche	s of		
grass:-				-				
1910						111	-	_
1911							-	
						100000		

	1910.	1911.	1912.
Number of square yards of weeds, grass, and vegetation cut and removed	No Record.	No Record.	_

#### 15. Excavations and low-lying land.

Number of pools and excavations	1910.	1911.	1912.
Number of excavations filled up	ad.		102
excavations	No record.	No record.	
16. Oiling.			
_	1910.	1911.	1912.
fumber of drains oiled	No record.	No record,	
17. Inspection and Prosecutions	s.		
	1910.	1911.	1912.
umber of inspectors employed	Unknown.	4 67,979 922 9,114	-
umber of persons fined for having mosquito larvae on premises umber of notices served to remove insanitary conditions on premises	27	56 96	
after notice	- "	41	=

E. E. MAPLES,

Medical Officer, Warri.
4th February, 1912.



#### 1. Name of Town :- Forcados-

		Approximate area.	Number of proclaimed open spaces.
1910 1911		 250 Acres	-
912	***	 250 ,,	1

#### 2. Population.

			Number of Natives. Num		Number of	Europeans.	
			Males.	Females.	Males.	Females.	Total.
1910	 	 	1,435	1,900	32		3,367
1911 1912	 	 			40	1	_

#### 3. Housing.

_				Number occupied by Europeans.	Number occupied by Natives.
Number of	House	es:-	1		
1910	***	***		11	
1911				13	102
1912					

Number of Huts :-

1910	 	 ?
1911	 	 66
1912	 ***	 01125,00

# 4. Mosquito Protection of Houses.

	1910.	1911.	1912.
Number of European houses wholly mosquito protected  Number of European houses with mosquito room  Number rendered during the year wholly mosquito protected  Number rendered during the year partially mosquito protected	1 1	1 9 	

# 5. Erection of New Buildings during the Year.

	1910.	1911.	1912.
Number of public buildings erected with sanction as to site, construction, and relation to other buildings  Number of houses erected with sanction as to site, construction, and relation to other buildings	13	4 34	
Number of huts erected with sanction as to site, construction, and relation to other buildings	=	2 ?	=

			1	Num	ber of	Prosecution	18.		Nu	unber d	nber demolished.		
				Huts.		н	ouses.		Huts.			Hous	es.
1910							50						
1911						-			?		1		
912	***	***				_							
						6. M	arkets.						
						Total	number.	Nun	drained.	and	Numb	er u	paved
910							1					1	
911						î			-			1	
912	***	***	***	***									
						7. Slaugh	ter-houses						
						Total	number.	Nun	ber paved drained.	and	Numb	er un	paved
910													
1911						-			-			-	
912	***		***						***************************************			-	
						8. La	trines.						
				-			For Male	es and	Females.				
				-				- 1					
							Number	. 1	seats.			1	
NT1	- of Del	11 - Y -					Number	. 1					
Numbe	er of Pub 1910		***				. 4	.   1			1		4
Numbe	1910 1911 (i	 neludi	ng Gov	t. Offic	es, Ba	rracks &	4 7	. 2	seats.	1030	1 1		4 4
Numbe	1910 1911 (i 1912 er of new	neludi	ng Gov	t. Offic	es, Ba		4 7	.   3	seats.				4 4
	1910 1911 (i 1912 er of new :	ncludii  Publi	ng Gov  c Latr	t. Offic	es, Ba	during the	4 7	. 2	seats.				4 4
Numbe	1910 1911 (i 1912 er of new	neludi	ng Gov	t. Offic	es, Ba	rracks &	4 7	. 2	22 50				4 4 -
Numbe	1910 1911 (i. 1912 er of new : 1910	 ncludii  Publi	ng Gov  c Latr 	t. Offic	ees, Ba	during the	1 1 3	. 2	seats.				4 4 -
Numbe year	1910 1911 (i. 1912) er of new :	Publi	ng Gov	ines er	ected	during the	4 7 - 1 3 - 1 3 - 1		22 50 —				4 4 -
Numbe year Numbe	1910 1911 (i 1912 er of new 1910 1911 1912 er of Pu	Publi	ng Gov	ines er	ees, Ba	during the	1 1 3 - 1		22 50 —				4 4 -
Numbe year	1910 1911 (i 1912 er of new 1910 1911 1912 er of Pu 1910 1911	Publi	ng Gov	rt. Office	ees, Ba	during the	1 1 3 · · · · · · · · · · · · · · · · ·		22 50 —				4 4
Numbe year Numbe year	1910 1911 (i 1912 er of new 1910 1911 1912 er of Put 1911 1912 er of Put	Publi	ng Gov	rt. Office	ees, Ba	during the	1 1 3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		22 50 —		1		4 4
Numbe year Numbe year	1910 1911 (i 1912 er of new :	Publi	ng Gov	rt. Office	ees, Ba	during the	1 1 3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		22 50 —		1		4 4
Numbe year Numbe year	1910 1911 (i 1912 ir of new :	ncludii r Publi  blic I  blic La	ng Gov	rt. Office	ected o	during the	1 1 3 - 1 - 1		22 50 —		1		4 4
Numbe year Numbe year	1910 1911 (i 1912 er of new :	neludii  Publi  Dilie I	ng Gov	rt. Office	ected o	during the	1 1 3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		22 50 —		1		4 4
Numbe year Numbe year	1910 1911 (i 1912 ir of new :	ncludii r Publi  blic I  blic La	ng Gov	rt. Office	ected of the control	during the	1 1 3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		22 50 —	1910.			4 4
Numbe year Numbe year	1910 1911 (i 1912 ir of new :	r Publi	ng Gov	ines eres repa	ected (	during the	1 1 3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		22 50 — — — — — — — — — — — — — — — — — —	1910.	1911		4 4
Numbe year Numbe year	1910 1911 (i 1912 er of new :	Public I olic La	atrines	rt. Office ines ere es repa demoli f nights	ected of the control	during the	1 1 3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		22 50 — — — — — — — — — — — — — — — — — —	1910.	1911	5	1912
Numbe year Numbe year Numbe year	1910 1911 (i 1912 er of new 1910 1911 1912 er of Pu 1910 1911 1912 er of Pul 1911 1912 er of Pul 1910 1911 1912	Public I olic La	atrines	rt. Office ines ere es repa demoli f nights	ected of the control	during the	1 1 3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	stitui	22 50 — — — — — — — — — — — — — — — — — —	1910.	1911	5 8	-
Numbe year Numbe year Numbe Averag Averag Numbe	1910 1911 (i 1912 er of new 1910 1911 1912 er of Pu 1910 1911 1912 er of Pul 1910 1911 1912 er of Pri ge numb ge numb er of ni	ncludii  Publi  ablic I  blic La  vate I er of per of seghtsoi	atrines	rt. Office ines ere es repa demoli f nights sails re emplo	ected of the control	during the	1 1 3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	estitue nd re	22 50 — — — — — — — — — — — — — — — — — —	1910. 42 70 70	1911	5 8 8	-
Numbe year Numbe year Numbe Averag Numbe ex	1910 1911 (i 1912 er of new 1910 1911 1912 er of Pu 1910 1911 1912 er of Pul 1911 1912 er of Pul 1910 1911 1912	ncludii  Publi  ablic I  blic La  vate I er of per of sells	atrines	rt. Office ines ere es repa demoli f nights sails re emplo	ected of the control	during the	the state of the s	estituend re	22 50 — 18 — — — — — — — — — — — — — — — — —	1910. 42 70	1911	5 8 8	
Numbe year Numbe year Numbe Avera Avera Numbe ex Numbe	1910 1911 (i 1912 er of new : 1910 1911 1912 er of Pu : 1910 1911 1912 er of Pul : 1910 1911 1912 er of Pul : 1910 1911 1912 er of Pri ge numb ge numb ge numb ge numb er of ni creta (o er of ces er of ces	ncluding Public I wate I wate I wer of per of sightsoin spools spools	atrines catrines catrines colled p	demoli  f nightsoals regarded	ected of the control	during the	1 1 3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	estitue nd re	22 50 — — — — — — — — — — — — — — — — — —	1910. 42 70 70 23	1911	5 8 8 8 -	
Numbe year Numbe year Numbe Avera Avera Numbe ex Numbe Numbe	1910 1911 (i 1912 er of new : 1910 1911 1912 er of Pu : 1910 1911 1912 er of Pul : 1910 1911 1912 er of Pri ge numb ge numb ge numb er of ni ereta (o er of ces er of ces er of new	ncludin  Publi  Publi  in the series of per of seglitsoin pay pays spools sypools v cessely	atrines catrines catrines catrines catrines catrines catrines	demoli	ected of cired of soil recoved traged) cted d	during the	1 1 3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	estitue nd re	22 50 — 18 — — — — — — — — — — — — — — — — —	1910. 42 70 70 23 	1917	5 8 8 8	
Numbe year Numbe year Numbe A vera A vera Numbe Numbe Numbe	1910 1911 (i 1912 er of new : 1910 1911 1912 er of Pu : 1910 1911 1912 er of Pul : 1910 1911 1912 er of Pul : 1910 1911 1912 er of er of ces er of ces er of new er of old	vate Ler of per of spools spools spools cesspeces per of spools s	atrines cleans of soiled planen rtly the cleans pools abools	demoli  in services reparente demoli	ected of the control	during the	1 1 3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	estitui nd re	22 50 — — — — — — — — — — — — — — — — — —	1910. 42 70 70 23 —	1917	5 8 8 8	11 111

	1910.	1911.	1912.
Number of dustbins	100 ?	150	
Amount of refuse removed daily from yards and premises	?	150 bins.	=
Number of men employed for moving refuse (Partly thus engaged)	23	12	11/2-

#### 10. Mode of Disposal of Excreta, Refuse, and Offal.

	Daily average number of pails of exercta.			numbe	ily avera er of bar of refuse	rels	Daily average number of cartloads of Slaughter House and Market Offal.		
	1910.	1911.	1912.	1910.	1911.	1912.	1910.	1911.	1912.
Buried or trenched Burnt Thrown into Sea *Otherwise dealt with Thrown into the river	 	68				11111	11111	11111	

<sup>\*</sup> State mode of disposal.

#### Average daily number of cartloads of tin cans, bottles, broken crockery and other incombustible material removed from houses, huts and compounds.

1910.	1911.	1912.
?	?	

Nature of Water Supply.				1910.	1911.	1912.
Pipe-borne water:—						ļ.
Source (river, lake, or spring):-						
Number of linear yards				-	4	-
Number of stand pipes along roads				-	_	-
Number of stand pipes in compounds an	d hor	ases				-
Vells:						
Public:—						
37 1			18840	6	7	1
Number	surf	ace w	ater			
and mosquito-protected			erec.		7	
Private:-				2	9	
Number	· · ·	Monor		2	2	-
Number protected against surface water	ranu	Mosq				
protected					_	_
anks.—	+			1		
Public:-						
Number underground			***		-	-
Number mosquito-protected and served	by pu	umps	***	-	-	1000
Number above ground		***	***	-	-	-
Number mosquito-protected		***	***	-	-	_
Number of 400 gallons capacity or less		***	***		-	-
Number above 400 gallons		***	***	-		-

	1	1910.	1911.	1912.						
anks:-										
Private:-										
Number	under	group	nd			 		-	-	
Number						 		_	_	-
Number						 		93	110	-
Number						 		93	93	
Number					r less	 		34	38	***
Number						 		59	72	-
Nature of ta										
Wood						 		_	_	
Iron						 		84	85	
Concrete						 		9	25	
Barrels:-										
Number						 		-	?	
Number	mosqu	ito-j	protecte	d		 			129	-

# 13. Drainage.

	Na	ture of	drainag	e.			Public.	Private.
sonry drai	ns:							
Lineal ya	rds of	masor	ary dra	ains:-				
1910							1,324	
1911							1,324	347
1912								1960
Lineal ya	rds re	econsti	ructed	during	g the y	ear:		
1910			***				-	****
1911							_	-
1912							-	_
Lineal ya	rds re	paired	durin	g the	vear:-			
1910							_	-
1911		***					_	_
1912					***	***	_	-
Lineal y	ards	of ne	w dra	ains c	onstru	cted		
during	the ye	ear:-						
1910	***			***	***	***	98	186
1911		***					_	1000
1912	***		***				-	-
rth drains								
Number o		ar yar	ds of d	itches	cleane	d:-		
1910	***	***	***		***			-
1911	***	***	***	***	***	***	13,134	
1912							-	-
Number of		ear ya	rds of	ditch	es dug	and		
graded:	-							
1910			***	***	***	***	4 000	_
1911	***	***	***	***	***	***	1,980	90
1912				***			-	The state of the s
	frequ	ency	of cle	aring	ditche	s of		
grass:-								
1910					***		2 monthly.	
1911		***	***		***		,,	
1912								

	1910.	1911.	1912.
Number of square yards of weeds, grass, and vegetation cut and removed	? Every 2 Months.	? 2 monthly.	-

## 15. Excavations and low-lying land,

	1910.	1911.	1912,
Number of pools and excavations	24	?	_
Number of excavations filled up	28	?	
Amount of low-lying and marsh land raised and drained		-	-
Number of pools, marshes, streams, &c., fish-stocked Number of cubic yards of material used for filling up pools and	-	-	-
excavations	***		
Number of persons fined for making new excavations			-
Average number of men daily employed in filling up pools, &c.	15	?	

#### 16. Oiling.

					1910.	1911.	1912
Number of drains oiled					_	81	
Number of pools and excavations oiled					48	131	-
Number of tanks and barrels oiled						10	-
Average number of men daily employed	for oil	ing dra	ains, p	cols,			
and watertanks or barrels					4	?	-

## 17. Inspections and Prosecutions.

	1910.	1911.	1912.
Number of inspectors employed	2	2	
Number of houses inspected	476	13,606	-
Number of houses where larvæ were found	364	395	_
Number of notices served to remove conditions causing the			
breeding of larvæ	18	8	-
Number of persons fined for having mosquito larvæ on premises		93	-
Number of notices served to remove insanitary conditions on			
premises	113	4	-
Number of persons fined for not removing insanitary conditions			
after notice	43	-	-
Number of soda and aerated water factories inspected			-



# 1. Name of Town :- Onitsha. C.P.

	-		Approximate area.	Number of proclaimed open spaces.
1910		 	1,500 Acres	_
1911		 		
1912		 	_	

# 2. Population.

Total.	Europeans.	Number of	of Natives.				
10121	Females.	Males.	Females.	Males.			
10,054	5	-49	5,000	5,000	 	 	1910
	-		Canariania (S. )	The state of	 	 	1912

#### 3. Housing.

	-		Number occupied by Europeans.	Number occupied by Natives.
Number of			annual of	
1911		 	32	97
1912		 		

#### Number of Huts :-

1910	 	
1911	 	 1,512
1912	 	 _

# 4. Mosquito Protection of Houses.

	1910.	1911.	1912.
Tumber of European houses wholly mosquito protected	=	8 5	
Number rendered during the year wholly mosquito protected Number rendered during the year partially mosquito protected	_	2	

# 5. Erection of New Buildings during the Year.

Millian Anglanta				1910.	1911.	1912.
Number of public buildings erected with construction, and relation to other buil Number of houses erected with sanction as and relation to other buildings	to site	e, cor	 ***		1 15	_
Number of huts erected with sanction as and relation to other buildings Number of houses build without sanction	to site	e, cor	tion,	=	107	=

				Vinnel	how of	Prosecutions.			Xn	mber de	molished.	
	-			Aum	oer or	Posecutions			214	moer de	monsuem	
				Huts.		Hou	ses.		Huts.		Н	ouses.
910	***										-	-
911	***	***		*		-						
.912	***	***		- 2								
				*N	ot nee	essary to tak 6. Mai		ceedin	gs.			
						Total nu	amber.	Num	ber paved drained.	and	Number	r unpaveć
910												
911					***	2						2
912			•••		***	_			-			_
						7. Slaughte	er-houses					
						Total nu	mber.	Num	ber paved drained.	and	Number	unpaved
010												-
910 911				***		1	76.		1			
912						-	-		-		-	
		. /.				8. Lat	rines.					
							For Male	es and	Females.			
			-								1	
			-	-			Number	. 1	Number of seats.			
				-			Number					
Numbe	er of Pub	lic La	trines	:			Number					
Numbe	1910			***	no Re	uracks &c	Number	. N				-
Numbe	1910			***		 uracks &c.	Number	. 3			-	
Numbe	1910 1911 (in 1912 er of new	neludii	ng Gov	rt. Offic	es, Ba	rracks &c.	Number					=
	1910 1911 (in 1912 er of new :—	ncludii  Publi	ng Gov  ic Latr	t. Offic	es, Ba	during the	Number	. N				
Numbe	1910 1911 (in 1912) er of new :— 1910 1911	neludii	ng Gov	rt. Offic	es, Ba	uracks &c.	Number	. N				
Numbe	1910 1911 (in 1912 er of new :— 1910	 ncludii  Publi	ng Gov  ic Latr 	rt. Offic	es, Ba	during the	Number	. 1				
Numbe year Numbe	1910 1911 (in 1912) er of new : 1910 1911 1912 er of Pu	Publi	ng Gov	rines er	ected	during the	Number					= = = = = = = = = = = = = = = = = = = =
Numbe year	1910 1911 (ii 1912 er of new :- 1910 1911 1912 er of Pu	Publi	ng Gov	rines er	ected	during the	Number					111 111
Numbe year Numbe	1910 1911 (in 1912 er of new 1910 1911 1912 er of Pu 1910 1911	Publi	 ng Gov  ic Latr   	ines er	ected ired	during the during the during the	Number					
Numbe year Numbe year	1910 1911 (in 1912 er of new 1910 1911 1912 er of Put 1910 1911 1912 er of Put	Publi	 ng Gov  ie Latr  	ines er	ees, Ba	during the during the during the	Number					
Numbe year Numbe year	1910 1911 (in 1912 er of new 1910 1911 1912 er of Put 1910 1911 1912 er of Put	Publi	 ng Gov  ie Latr  	ines er	ees, Ba	during the	Number					
Numbe year Numbe year	1910 1911 (in 1912 (in 1912 (in 1910 1911 1912 (in 1910 1911 1912 (in 1910 1911 (in 1910 1911 (in 1910 1911 (in 1910 1911 (in	Publi blic La	mg Gov	es repa	ected	during the during the during the during the	Number					
Numbe year Numbe year	1910 1911 (in 1912 er of new 1910 1911 1912 er of Pu 1910 1911 1912 er of Pul	Publi blic I	gGov	ines er	ected	during the during the during the during the	Number					
Numbe year Numbe year	1910 1911 (in 1912 (in 1912 (in 1910 1911 1912 (in 1910 1911 1912 (in 1910 1911 (in 1910 1911 (in 1910 1911 (in 1910 1911 (in	Publi blic La	mg Gov	es repa	ected	during the during the during the during the	Number			1910.	1911.	191
Numbe year Numbe year	1910 1911 (in 1912 (in 1912 (in 1910 1911 1912 (in 1910 1911 1912 (in 1910 1911 (in 1910 1911 (in 1910 1911 (in 1910 1911 (in	Publi blic La	mg Gov	es repa	ected ired ished	during the during the during the during the			seats.		1911.	
Numbe year Numbe year Numbe	1910 1911 (in 1912 er of new :	Public I  blic La  vate I  vate I	ng Gov ic Latr	es repa	eeted cired ished soil re	during the during the during the during the during the			seats.	_ 1	Not k	no wn
Numbe year Numbe year Numbe Avera Avera Numbe	1910 1911 (in 1912) er of new :	Public I  blic I  vate I  per of sightsoi	atrines	es repa	ected	during the during the during the during the during the during the	iy	bstitu	seats.		Not k 145 145	no wn
Numbe year Numbe year Numbe Avera Avera Numbe	1910 1911 (in 1912 er of new	Public I  blic I  vate I  per of sightsoinly pa	atrines	es repa	ected	during the	ly a pails sulatrines a	bstitu	seats.	_ 1	Vot k 145 145 18	no wn
Numbe year Numbe year Numbe Avera Avera Numbe	1910 1911 (in 1912 er of new :- 1910 1911 1912 er of Pu :- 1910 1911 1912 er of Pul :- 1910 1911 1912 er of Pri ige numb ge numb er of ni ccreta (o er of ces	Public I  blic I  control of separate of s	atrines Latrines	es repa	ected	during the	ly in pails sulatrines a	bstitu	seats.	_ 1	Not k 145 145	no wn
Numbe year Numbe year Numbe Avera Avera Numbe Numbe Numbe	1910 1911 (in 1912 er of new : 1910 1911 1912 er of Pul 1910 1911 1912 er of Pul 1910 1911 1912 er of Pul 1910 1911 1912 er of Pri 192 er of Pri 1930 1941 1950 er of ces	Public I  blic I  vate I  per of sightsoinly passpools spools vess	atrines catrines catrines catrines catrines catrines	es repa	ected	during the	in pails sulfatrines a	bstitu	seats.	_ 1	Not k 145 145 18	no wn
Numbe year Numbe year Numbe Avera Avera Numbe Numbe Numbe	er of new 1910 1911 1912 er of new 1910 1911 1912 er of Pul 1910 1911 1912 er of Pul 1910 1911 1912 er of Pul 1910 1911 1912 er of Pri 1910 1911 1912 er of ces er of ces er of new	vate I per of sepools spools sepools vesspools vesspools	atrines  Latrines  Latrines  Latrines  Latrines  Latrines  Latrines  Latrines  Latrines  Latrines  Latrines	es repa	ected cired soil remove yed cted	during the	ly i pails sulatrines a year	bstitu und r	seats.		Not k 145 145 18	no wn

	1910.	1911.	1912.
Tumber of dustbins			TO THE
	-	1 000	
Number of carts, if employed at work daily to remove refuse from	1112231111		-
streets	-		
Amount of refuse removed daily from streets	112		-
number of carts, if employed at work daily to remove refuse from			
yards and premises	-		
amount of refuse removed daily from yards and premises	11222	_	
Number of men employed for moving refuse		+	-

<sup>\*</sup> Never measured. † Unknown none by Govarnment.

#### 10. Mode of Disposal of Excreta, Refuse, and Offal.

	nun	Daily average number of pails of excreta.			ily avera er of bar of refuse	rels	Daily average number of cartloads of Slaughter House and Market Offal.		
	1910.	1911.	1912.	1910.	1911.	1912.	1910.	1911.	1912.
Buried or trenched Burnt Thrown into Niger *Otherwise dealt with	1111	72 — 73	11111						

<sup>\*</sup> State mode of disposal.

# 11. Average daily number of cartloads of tin cans, bottles, broken crockery and other incombustible material removed from houses, huts and compounds.

1910.	1911.	1912.		
	1			
	100	10 - 10 <u></u>		

Nature of Water Supply.			1910.	1911.	1912.
Pipe-borne water:—					
Source (river, lake, or spring):-					
No. of the same and the					
No. 1 - Cotton I disconding to the last		***			
Number of stand pipes along roads Number of stand pipes in compounds and l					
	louses				
Wells:-					
Public:-					
Number				-	
Number with pumps protected against st	ırface	water			
and mosquito-protected		***	_	-	-
Private:-					
Number	3 338	1000	Maria Color		
Number protected against surface water a		quito-			
protected			-	-	
Tanks:—					
Public:-					
Number underground		***	- 1	100	
Number mosquito-protected and served by	pumps	***		-	-
Number above ground	***	***	- 57		-
Number mosquito-protected		***	175		
Number of 400 gallons capacity or less	***	***	-		
Number above 400 gallons	***	***	466		

	1	1910.	1911.	1912.						
anks:-										
Private:-										
Number	under	groui	nd	 					* 37	
Number								-	* 6 partly	
Number				 				1	* 6	
Number								-	* 31	
Number								1	* 31	
Number									100	
Nature of ta			Barrons		100	11000			A STATE OF	
Wood				 				100	* 37	
Iron				 				-	-	
Concrete								110	* 20	
Barrels :-					***	600				
Number				 17.00				102	*17	
Number		nito-	protect						-	

<sup>\*</sup> All attached to Government buildings or quarters.

#### 13. Drainage.

	Na	ture of	drainag	e.			Public.	Private.
dasonry drai	no -						70	1201 of all Rwon
Lineal ya			new sheet	ing .				
1910		masor					1.800	
1911							1,000	
1912							000	
Lineal ya								
1910		***						
1911							4 01 01 01 -	_
1912							-	_
Lineal ya	rds re	epaired	durin	gthe	vear:-	-		
1910						***	400	and the same of th
1911								_
1912							_	_
Lineal y			w dr	ains c	constru	cted		
during	the y	ear:-						
1910			***		***		350	-
1911							_	
1912							-	-
Carth drains								
Number o	of line	ar yar	ds of d	itches	cleane	d:-		
1910				***			17,600	7
1911					***		_	
1912		***					- T	-
Number		ear ya	rds of	ditch	es dug	and		
graded								
1910			•••				4,600	
1911				***		***	-	- INGELINGER
1912		***	of als	anina	ditaha		-	at a delivery to the control of the
Average	- *	iency	or cle	aring	ditche	8 01		
grass:- 1910								
1911		***		***		***	Q times vessly	
	***	***		***			8 times yearly.	
1912		***	***	***				

	1910.	1911.	1912.
Number of square yards of weeds, grass, and vegetation cut and removed	_	150000 4 times a year.	-

#### 15. Excavations and low-lying land.

	1910.	1911.	1912
Number of pools and excavations	_	*500	_
Number of excavations filled up		1124	_
Amount of low-lying and marsh land raised and drained	-	acre	
Number of pools, marshes, streams, &c., fish-stocked	-	- 1	
Number of cubic yards of material used for filling up pools and		2000	
excavations	40.0	2,000	
Number of persons fined for making new excavations		-	
Average number of men daily employed in filling up pools, &c.	-	30	-

\*Roughly.

†Exact number.

#### 16. Oiling.

					1910.	1911.	1912.
Number of drains oiled						*22	
lumber of pools and excavations oiled					-	_	-
Tumber of tanks and barrels oiled	***	***	***		-	-	-
verage number of men daily employed	for oil	ing dra	ains, p	ools,			
and watertanks or barrels			***	***		1	-

"Constantly.

#### 17. Inspections and Prosecutions.

	1910.	1911.	1912.
Number of inspectors employed		1	_
Number of houses inspected		*609	-
Number of houses where larvæ were found Number of notices served to remove conditions causing the		330	-
breeding of larvæ	-	330	****
Number of persons fined for having mosquito larvæ on premises Number of notices served to remove insanitary conditions on	-	33	
premises	- 1	425	-
after notice		67	-
Number of soda and aerated water factories inspected		-	-

Every month.

H. ELLIS,

Medical Officer.

10th January, 1912.



#### 1. Name of Town : - Sapele-

-		Approximate area.	Number of proclaimed open spaces.	
1910			 570 Acres	1
1911			 570 ,,	1
1912	***		 	

#### 2. Population.

				Number o	f Natives.	Number of	Europeans.	m-4-1
			Males.	Females.	Males.	Females.	Total.	
1910				 500 Approx.		23 23		1,023
911				 500 ,,	500	23	_	1,023

#### 3. Housing.

	-			Number occupied by Europeans.	Number occupied by Natives.
Tumber of	House	es:	1	Symvana in	
1910			***	9 & 1 hut.	17
TOTO					177
1911				11	17

#### N.B. Hospital not included.

#### Number of Huts :-

1910	 	 205
1911	 	 211
1012		

#### 4. Mosquito Pretection of Houses.

	1910.	1911.	1912.
Number of European houses wholly mosquito protected Number of European houses with mosquito room Number rendered during the year wholly mosquito protected Number rendered during the year partially mosquito protected	3 2	3	=

#### Hospital not included.

# 5. Erection of New Buildings during the Year.

	1910.	1911.	1912.
Number of public buildings erected with sanction as to site,			
construction, and relation to other buildings		2	-
and relation to other buildings		6	_
and relation to other buildings	-	44	-
Number of houses build without sanction	-	-	-
umber of huts build without sanction	-	-	-

				Num	iber of l	Prosecu	itions.		2	amber der	nolished.	
	-			Huts.			Hou	ses.	Huts.		How	508.
					-	1						
1910							-				-	-
911 912				27					38		-	
012												
						6.	. Mar	rkets.				
		_	-			To	Total number. Number pave drained				Number u	npaved.
910							1					1
911							1		_	CHI THE STATE OF		1
912	•••											
						7. Sla	ughte	er-houses.				
	_						tal nu	mber.	Number pave drained	ed and	Number u	npaved.
910								-			_	-
911							-				-	-
912	***	•••	•••	•••			100				_	
						8	. Lat	rines.			There .	
								For Male	es and Females			
								Number	Number o seats.	1		
Virmboo	r of Pub	lia Ta	talasa									
vumber	1910	mic La	···					1	*		1	
	1911 (in	neludii				rrack	s &c.	1	,,		1	,,
	1912	***	***	***		***			-	-		-
Number year:	r of new	Publi	c Latr	ines er	rected	during	the					
2	1910			***				-	-	-		-
	1911							011820	-	-	-	-
	1912	•••	***			•••		-	-	-	-	7.5
Number year:	r of Pu	ıblic I	atrine	s rep	aired o	luring	the					
	1910			***		***		-	-	-	-	-
	1911 1912	***						1	vide suj	).	1	1 500
San I		 Jia Ta	***	domel	lahad s	duning	the					
year		ne La	trmes	demoi	usned (	uring	the				-	
	1910							-	-	7		-
	1911 1912							=	-			-
												1
				7191 -	1.					1910.	1911.	1912.
	r of Pri									45	49	-
Averas	ge numb	er of	pails o	f night	tsoil re	move	d dail;	y		-	61	-
									stituted	-	-	-
	creta							trines a	nd remove	_	12	_
Numbe	er of ces	spools									-	-
Numbe	er of ces	spools	cleans							-	-	
	er of nev									_	_	
		CONTRACTOR.										
Numbe	er of old er of ces	cesspe	oiled	regula	rly by		tmen		*** ***	_	-	_

	1910.	1911.	1912.
Tumber of dustbins	_		
umber of carts, at work daily to remove refuse from streets			-
	2 barrels.	10 bar-	
umber of carts, at work daily to remove refuse from yards and		rels.	
premises	-		-
mount of refuse removed daily from yards and premises		-	-
umber of men employed for moving refuse		29	

#### 10. Mode of Disposal of Excreta, Refuse, and Offal.

	Daily average number of pails of excreta.			numbe	ily avera er of bar of refuse	rels	of of Slaugh	verage n cartloads ater How arket Off	s of se and
	1910.	1911.	1912.	1910.	1911.	1912.	1910.	1911.	1912.
Buried or trenched Burnt *Otherwise dealt with	=	61	=	111		Ξ	1 1	==	==

<sup>\*</sup> State mode of disposal.

11. Average daily number of cartloads of tin cans, bottles, broken crockery and other incombustible material removed from houses, huts and compounds.

1910.	1911.	1912.
_	Removed daily with Rubbish.	_

Nature of Water Supply.	1910.	1911.	1912
ipe-borne water:—			
Source (river, lake, or spring):-			
Number of linear yards	-	-	
Number of stand pipes along roads	-	-	-
Number of stand pipes in compounds and houses	-		-
Vells:			
Public:—			
Number	1	1	-
Number with pumps protected against surface water			
and mosquito-protected	1	1	-
Private:-			
Number	1	2	
Number protected against surface water and Mosquito-			
protected	1	2	-
anks.—			
Public:-			
Number underground	_	_	
Number mosquito-protected and served by pumps	-	-	-
Number above ground	-	_	
Number mosquito-protected		-	
Number of 400 gallons capacity or less	_	and the same of	-
Number above 400 gallons	-		

		1910.	1911.	1912.							
anks:											
Private:											
Number	underg	grou	nd		***		***		-	_	
Number	mosqu	ito-	protected	1			***	***	-	-	
Number									42	47	
Number	mosqu	ito-1	protected	1					39	47	
Number	of 400	gall	ons cana	city					2 2	21	
Number	ahove	400	gallons						2	26	10/1/100
Nature of ta			ganone						10,000	Contraction of	10 000
Wood		***		***		***	***	***	177	00	
Iron	***		***			***	***	***	17	38	
Concrete	3	***			***	22.5	***	***	5	9	
Barrels:											
Number				***					_	_	
	mosqu		protecte	d					-	-	

# 13. Drainage.

	Na	ture of	lrainag	e.			Public.	Private.
Iasonry drai	ns:							121VI. III III III III III III III III III
Lineal ya		masor	rv dra	ins:-				
1910							750 yards.	
1911								
1912							"	-
Lineal ya								
1910							_	
1911							months and	_
1912							_	_
Lineal ya							CO CONTRACTOR CONTRACTOR	
1910							_	-
1911							_	_
1912	***						_	_
Lineal y	ards	of ne	w dra	ains co	nstru	cted		
during							-7/113	
1910							_	_
1911							-	
1912		***						_
2077								
Carth drains	or dit	ches:-	-					
Number	of line	ar yar	ds of d	itches o	eleane	d:-	4-1	
1910							-	-
1911				***	***		1,200 yards approx.	-
1912							_	-
Number	of lin	ear ya	rds of	ditche	s dug	and		
graded	:-							
1910							-	-
1911					***		_	2000
1912							-	-
Average	frequ	ency	of cle	aring (	ditche	s of		
grass:	_	-		1000000				
por certain a							-	-
1910							monthly.	
			***				and an entry of	

	1910.	1911.	1912.
Number of square yards of weeds, grass, and vegetation cut and removed	450	500 monthly.	=

#### 15. Excavations and low-lying land.

	1910.	1911.	1912.
Number of pools and excavations	120 <u>4</u> —	120 12 —	=
excavations		=	_

# 16. Oiling.

					1910.	1911.	1912.
Number of drains oiled					_	_	
Number of pools and excavations oiled						-	_
Sumber of tanks and barrels oiled Average number of men daily employed	for oil	ing dra	ains, p	ools,	-	-	-
and watertanks or barrels						-	_

# 17. Inspections and Prosecutions.

_	1910.	1911.	1912.
Number of inspectors employed	1	2	
Number of houses inspected		239	-
Number of houses where larvæ were found Number of notices served to remove conditions causing the	-	-	-
breeding of larvæ		_	
Number of persons fined for having mosquito larvæ on premises Number of notices served to remove insanitary conditions on	14	15	1
premises	19	15	-
after notice		_	-
Number of soda and aerated water factories inspected		_	-



						lxi.				
					1000	Aetlea ta				
			1.	Name	e of T	own:-Benin	City.			
	-			A	pproxi	mate area.		N	iumber of proc open space	
1910 1911 1912				1	Squa	are mile. are mile.			1	
					2. 1	Population.				
				Nu	mber o	f Natives.	Nu	unber of I	Suropeans.	Total.
				Male	08-	Females.	M	Males. Females.		Total
1910 1911 1912				Uncer 5,15		Uncertain. 5,209	-	8 10.	=	*10,359
- Indiana						Census Return.				
				-	٥.	Housing.				110
		_			Nu	mber occupied by Europeans.	У	Numbe	r occupied by Natives.	E10
	Number of I	***	:			5		Un	certain.	
	1911 1912	***				5			6	
	Number of	Hote	_							
	1910					Uncertain.				
	1911					1,025 Appre				
	1019					- Paulinieli				

1910	 	 Uncertain.
1911	 	 1,025 Approx.
1912	 	 and taking blots

## 4. Mosquito Protection of Houses.

The first fi	1910.	1911.	1912.
Number of European houses wholly mosquito protected  Number of European houses with mosquito room  Number rendered during the year wholly mosquito protected  Number rendered during the year partially mosquito protected	1	1 1 1 1	

	1910.	1911.	1912.
Number of public buildings erected with sanction as to site,	[ Maleur		100
construction, and relation to other buildings	3		
Number of houses erected with sanction as to site, construction, and relation to other buildings	-	1	1
Number of huts erected with sanction as to site, construction,			
and relation to other buildings		25	-
Number of houses build without sanction	Uncertain.		
Number of huts build without sanction	22 22		-

						200000000000000000000000000000000000000						
				Nun	nber of	Prosecu	tions			Number d	emolished	i.
				Huts.			Hou	ses.	Huts		Н	Iouses.
1910 1911 1912	:: :: = = =			=		45		=				
						6.	. Mai	rkets.	-			
		_	-			To	otal nu	amber.	Number pay drained		Numbe	er unpaved.
1910 1911 1912						2 2						2 2
						7 Sla	nghta	er-houses.				-
				-		7. 518	ugnu	er-nouses.			-	
			-			То	tal nu	mber.	Number pave drained	ed and	Numbe	er unpaved.
1910						To an in	-	-	_		-	_
1911							-	-	_			
						8	. Lat	rines.				
								Fo	r Males.		For Fer	males.
			_					Number	Number of seats.	f Nu	mber.	Number of seats.
Number	r of Pub	lic La	trines	:-				Number		f Nu	mber.	
Number	1910							Number 1		of Nu	mber.	
Number									seats.	d Nu	mber.	
Number	1910 1911 1912 r of new			:::					seats.	of Nu	mber.	
	1910 1911 1912 r of new : 1910			:::					seats.	of Nu	mber.	
Number	1910 1911 1912 r of new : 1910 1911	Publi	 c Latr 	ines er	rected	 during 	::: the :::		seats.	of Nu	mber.	
Number year:	1910 1911 1912 r of new:— 1910 1911 1912 r of Pu	 Publi	 c Latr 	rines er	rected	during	::: the :::		seats.	of Nu	mber.	
Number year :	1910 1911 1912 r of new:— 1910 1911 1912 r of Pu	 Publi	 c Latr 	rines er	rected	during	::: the :::		seats.	f Nu	mber.	
Number year:	1910 1911 1912 r of new 1910 1911 1912 r of Pu 1910 1911	Publi blic I	c Latr	rines er	rected	during during	the		seats.	f Nu	mber.	
Number year:	1910 1911 1912 r of new 1910 1911 1912 r of Pu 1910 1911 1912 r of Pub	Publi	c Latr	ines er	rected aired (	during during during	::: the ::: the ::: the ::: ::: the ::: ::: ::: ::: ::: ::: ::: ::: ::: :		seats.	f Nu	mber.	
Number year: Number year:	1910 1911 1912 r of new 1910 1911 1912 r of Pu 1910 1911 1912 r of Pub	Publi	c Latr	ines er	rected aired (	during during during	::: the ::: the ::: the ::: ::: the ::: ::: ::: ::: ::: ::: ::: ::: ::: :		seats.	f Nu	mber.	
Number year:	1910 1911 1912 r of new 1910 1911 1912 r of Pu 1911 1912 r of Pub	Publi blic I lic La	c Latr	rines er	rected aired (	during during during during	the the the the		seats.	f Nu	mber.	
Number year: Number year:	1910 1911 1912 r of new 1910 1911 1912 r of Pu 1910 1911 1912 r of Pub 1911 1910 1911	Publi blic I lic La	c Latr	cines er	rected aired (	during during during during	the the the the	1 - 1	10	1910.	mber.	seats.
Number year: Number year: Number year: Number	1910 1911 1912 r of new 1910 1911 1912 r of Pub 1911 1912 r of Pub 1911 1912 r of Pub 1911 1912 r of Pub 1911 1912	Publi blic I lic La vate I er of j er of s ghtsoi	c Latr	demol	rected aired o	during during during during during during	the the the the	1 — — — — — — — — — — — — — — — — — — —	seats.  10	1910. 18 18 18	1911	seats.
Number year: Number year: Number year: Number Averag Number	1910 1911 1912 r of new 	Publi blic I lic La er of j er of s ghtsoi	c Latr	demol	rected aired of lished of tsoil reemoved oyed to	during during during during during during	the the the the	1	seats.  10	1910. 18 18 18 18	1911	seats.
Number year: Number year: Number year: Number Averag Averag Number	1910 1911 1912  r of new 1910 1911 1912  r of Pub 1911 1912  r of Priv 1910 1911 1912	Publi blic I lic La vate I er of per of seghtsoi. spools spools	c Latr	demol	rected aired of tsoil reemoved t	during during during during during	the the the the	1 — — — — — — — — — — — — — — — — — — —	seats.  10	1910.  18 18 18 18 4 Many	1911. 1911. 19 19 19 19	seats.
Number year: Number year: Number year: Number Number Number Number	1910 1911 1912 r of new 	Publi blic I lic La er of per of seghtsoi spools v cess	c Latr	demol	rected aired of tsoil reemove oyed t	during during during during during	the	1 — — — — — — — — — — — — — — — — — — —	seats.  10  10  10  10  10  10  10  10  10  1	1910.  18 18 18 18 4 Many	1911 1911 19 19 19	

	1910.	1911.	1912.
Number of dustbins	18	22	
Number of carts, at work daily to remove refuse from streets  Amount of refuse removed daily  Number of carts, at work daily to remove refuse from yards and	Uncertain	1 Uncertain	_
premises	_	2	
Amount of refuse removed daily from yards and premises	-	Uncertain	
Number of men employed for moving refuse	10	10	

#### 10. Mode of Disposal of Excreta, Refuse, and Offal.

	Daily average number of pails of excreta.			Daily average number of barrels of refuse.			Daily average number of cartloads of Slaughter House and Market Offal.		
	1910.	1911.	1912.	1910.	1911.	1912.	1910.	1911.	1912.
Buried or trenched Burnt *Otherwise dealt with	 18 _	19	=	==	=	=	=	=	

<sup>\*</sup> State mode of disposal.

11. Average daily number of cartloads of tin cans, bottles, broken crockery and other incombustible material removed from houses, huts and compounds.

1910.	1911.	1912.
	-	La chapte of

Nature of Water Supply.	1910.	1911.	1912.
Pipe-borne water:—			
Source (river, lake, or spring):-	River	River	
Number of linear yards			
Number of stand pipes along roads	8	14	_
Number of stand pipes in compounds and houses	5	5	
Wells:			
Public:—		-	
Your bar	_		
Number with pumps protected against surface water		1	17.00
and mosquito-protected		_	_
		100000	
Private:— Number		_	
Number protected against surface water and Mosquito-	-		_
Fanks:—			
Public:-			
Number underground	-	-	-
Number mosquito-protected and served by pumps		3-8	-
Number above ground	-	_	
Number mosquito-protected	-		-
Number of 400 gallons capacity or less	-		-
Number above 400 gallons	-		-

#### lxiv.

to a similar li	N:	1910.	1911.	1912							
anks:-											
Private:-										of the later	
Number	inderg	round							7	3	
Number	mosqui	ito-pre	otected						7	3 3	
Number :										_	
Number									-	_	
Number									-	-	
Number :									7	3	
Nature of tar											
Wood									_		
Iron						***				300	
Concrete									7	3	
Barrels:	***		***	***	***					9	
Number									Uncertain	Uncertain.	
		ite no	otooto	***				***		A STATE OF THE PARTY OF THE PAR	
Number	mosqu	nto-pr	otectet	Leri	***	***	***	***			

#### 13. Drainage.

Nature of drainage.							Public.	Private.
Masonry drai	ns:-							
Lineal ya		mason	ry dra	ins :-				
1910							1.300	_
1911							1,300	_
1912							_	_
Lineal ya	ards re	econstr	ucted	during	the y	ear:		
1910	***						_	-
1911							_	_
1912					***		-	_
Lineal ya	rds re	epaired	during	g the y	ear:-			
1910				***		***	-	-
1911			***	***			-	-
1912						***	-	-
Lineal y			w dra	ins c	onstru	cted		
during	the ye	ear:-						
1910							-	_
1911	***		***				-	_
1912	***	***	***		***	***	_	-
		14000						
Earth drains								
Number	of line	ar yare	is of di	itches	cleane	d:		
1910	***	***	***	***		***		_
1911	***	***	***	***			_	-
1912				174-1				-
Number	or lin	ear ya	rds of	ditch	es dug	and		
graded								100000
1910			***	***	***			
1911 1912	***	* ***	***		***			
	france	····	of alo	o win er	ditaba	o of	The state of the s	
Average		iency	or cie	aring	onche	S 01		
grass:- 1910						1000		
1910	***			***	***	***	Uncertain.	Uncertain.
1912		***		***	***	***	Cheertain.	Cheertain.
1912	***	***	****	***	****	1111		A CONTRACTOR OF THE PARTY OF TH

	1910.	1911.	1912.
Number of square yards of weeds, grass, and vegetation cut and removed	_	50,000	=

#### 15. Excavations and low-lying land.

	1910.	1911.	1912.
Number of pools and excavations	Many.	Many.	
Number of excavations filled up	None.	2	-
Amount of low-lying and marsh land raised and drained	_		
Number of pools, marshes, streams, &c., fish-stocked Number of cubic yards of material used for filling up pools and	-	-	-
excavations	***	Unknown.	
Number of persons fined for making new excavations	-		1
Average number of men daily employed in filling up pools, &c.		_	_

## 16. Oiling.

_					1910.	1911.	1912.
Number of drains oiled						_	-
Number of pools and excavations oiled					5	2	-
Number of tanks and barrels oiled					7	3	-
Average number of men daily employed	for oil	ing dra	ains, p	ools,			
and watertanks or barrels					-1	1	-

#### 17. Inspections and Prosecutions.

	1910.	1911.	1912.
Number of inspectors employed	1	1	_
Number of houses inspected		498	
Number of houses where larvæ were found Number of notices served to remove conditions causing the	-	58	-
breeding of larvæ	_	36	-
Number of persons fined for having mosquito larvæ on premises Number of notices served to remove insanitary conditions on	-	17	
premises	8	1	-
after notice	2		-
Number of soda and aerated water factories inspected		_	

A. H. WILSON,

Medical Officer.

Benin City, 31st December, 1911.



## 1. Name of Town :- Calabar.

	-		Approximate area.	Number of proclaimed open spaces.
1910			 	
1911 1912			 	
1012		***	 	

#### 2. Population.

				m-4-1
Males.	Females.	Males.	Females.	Total.
11	4,263	130	20	14,413
	1	14,263		14,263 130 20

## 3. Housing.

	-		Number occupied by Europeans.	Number occupied by Natives.
lumber of	House	s:		
1910			 61	1,011
1911	***	***	 _	
1912				

#### Number of Huts :-

moor o	 1.500		
1910	 		
1911	 		
1912	 ***		

#### 4. Mosquito Protection of Houses.

_	1910.	1911.	1912.
umber of European houses wholly mosquito protected			10-33
umber of European houses with mosquito room umber rendered during the year wholly mosquito protected		_	
umber rendered during the year partially mosquito protected	-		

Service -	1910.	1911.	1912.
Tumber of public buildings erected with sanction as to site,			
construction, and relation to other buildings		-	-
Number of houses erected with sanction as to site, construction,			1
and relation to other buildings	3		-
Sumber of huts erected with sanction as to site, construction,			1
and relation to other buildings	-	300000	1
Tumber of houses build without sanction			-
Tumber of huts build without sanction	-	-	-

#### lx viii.

						_							
				Nun	ber of	Prosect	itions.	6411.18.99		Nur	nber de	molished	
				Huts.		1	Hou	ses.	Н	uts.		Н	ouses.
1910									_				
911 912				_			_	_	Aro	Lines	s	_	
						6	Mai	rkets.		2	-		
						1			Number p	aved:	and		
						T	otal nu	amber.	drai			Number	r unpaved.
910						100	3		_	_			3
911 912							3		_	=			3
						7 Sla	nghta	er-houses.			-		-
-						1		umber.	Number p	aved :	and	Number	
						10	tai nu	moer.	drai	ned.		Number	unpaved.
910								1		1		-	-
911 912							-	1	-	1		-	
			-			8	. Lat	rines.					
		-						Fo	r Males.	- 1	1	For Fen	ales.
												201 201	
			_	-				Number.	Numbe		Num		Number o
				-					Vnmbe		Num		
Number	of Pub 1910	lic La	trines						Numbe	8.	in light	ber.	Number e seats.
Number	1910 1911							Number.	Numbe	8.	Num	ber.	Number o
	1910 1911 1912							Number.	Number seat	8.	13	ber.	Number e seats.
	1910 1911 1912 r of new							Number.	Number seat	8.	13	ber.	Number e seats.
Numbei	1910 1911 1912 r of new —	Publi						Number.	Number seat	8.	13	ber.	Number e seats.
Numbei	1910 1911 1912 r of new	Publi	c Latr	ines er	ected	during	the	Number.	Number seat	8.	13	ber.	Number seats.
Number year:	1910 1911 1912 r of new 1910 1911 1912 r of Pu	 Publi 	 c Latr 	ines er	ected	during	the	Number.	Number seat	8.	13	ber.	Number e seats.
Number year :	1910 1911 1912 of new 1910 1911 1912 of Pu	 Publi 	 c Latr 	ines er	ected	during	the	Number.	Number seat	8.	13	ber.	Number seats.
Number year:	1910 1911 1912 of new 1910 1911 1912 r of Pu	Publi	 c Latr  	ines er	ected	during	the	Number.	Number seat		11: 11:	ber.	Number e seats.
Number year:	1910 1911 1912 of new 1910 1911 1912 of Pu	Publi	 c Latr  	ines er	cected	during	the the the	Number.	65 65		11: 11:	ber.   3   3   3   -	Number seats.
Number year: Number year:	1910 1911 1912 r of new 1910 1911 1912 r of Pu 1910 1911 1912 r of Pub	Publi	c Latr	ines er	cected	during	the	Number.	65 65		11: 11:	ber.   3   3   3   -	Number seats.
Number year: Number year:	1910 1911 1912 r of new 1910 1911 1912 r of Pu 1910 1911 1912 r of Pub	Publi blic I	c Latr	ines er	ected aired o	during	the the the	Number.	65 65		11: 11:	ber.   3   3   3   -	Number seats.
Number year: Number year:	1910 1911 1912 r of new 1910 1911 1912 r of Pub 1911 1912 r of Pub 1910 1911 1910 1911	Publi	c Latr	ines er	cected	during	the	Number.	65 65		11: 11:	ber.   3   3   3   -	Number seats.
Number year: Number year:	1910 1911 1912 r of new 1910 1911 1912 r of Pu 1910 1911 1912 r of Pub	Publi blic I olic La	c Latr	ines er	cected	during	the the the the	Number.	65 65		11: 11:	ber.   3   3   3   -	Number seats.
Number year: Number year:	1910 1911 1912 r of new 1910 1911 1912 r of Pub 1911 1912 r of Pub 1910 1911 1910 1911	Publi  Publi  iii  iblic I  iii  iii  iii  iii  iii  iii  iii	c Latr	ines er	ected aired o	during	the the the the	Number.	65 65		11: 11:	ber.   3   3   3   -	Number seats.  78 78 78
Number year: Number year:	1910 1911 1912 r of new 1910 1911 1912 r of Pu 1910 1911 1912 r of Pub:	Publi  Publi  Dilic La	c Latr	ines er	ected	during	the the the the	Number.	65 65		11 11	1911.	78 78 — — — — — — — — — — — — — — — — —
Number year: Number year: Number year:	1910 1911 1912 r of new 1910 1911 1912 r of Pub 1911 1912 r of Pub 1911 1912 r of Pub 1911 1912	Publi blic I olic La vate I	c Latr c Latr atrine trines	ines er es repa demol	ected aired o	during	the the the	Number.  13 13	Number seat		13 13	1911.	Number seats.
Number year: Number year: Number year: Averag Averag Numbe	1910 1911 1912 r of new 1910 1911 1912 r of Pub 1911 1912 r of Pub 1911 1912 r of Pub 1911 1912 r of Pub 1911 1912	Publi blic I olic La vate I er of s	c Latr c Latr atrine trines	ines er	ected aired o	during during during during	the the the the	Number.  13 13	Number seat		11 12 	1911. 147 435 435	78 78 78 — — — — — — — — — — — — — — — —
Number year: Number year: Number year: Number year:	1910 1911 1912 r of new 1910 1911 1912 r of Pub 1910 1911 1912 r of Pub 1911 1912 r of Pub 1911 1912 r of Pub 1911 1912 r of Pub 1911 1912	Publi blic I olic La vate I er of j er of s ghtsoi	c Latr c Latr atrines trines trines trines	ines er es repa demol f night pails re emple	ected aired o	during during during during during	the the the	Number.  13 13 13 — — — — — — — — — — — — — — —	Number seat	is.	1910. 1910.	1911. 147 435 435	78 78 78 — — — — — — — — — — — — — — — —
Number year: Number year: Number Averag Averag Number	1910 1911 1912 r of new 1910 1911 1912 r of Pub 1910 1911 1912 r of Pub 1911 1912 r of Pub 1916 1917 1918 1918 1918 1919 1910 1911 1912 r of Pub 1911 1912 r of Pub 1913 1914 1915 1916 1917 1918 1918 1918 1918 1918 1918 1918 1918 1918 1919 1919 1919 1919 1919 1910 1911 1912 r of Pub 1918 19	Publi blic I olic La vate I er of j er of s ghtsoi spools	c Latr c Latr atrines trines trines	ines er	ected aired of ished of soil reemove	during during during during	the	13	Number seat	is.	11 12 	1911. 147 435 435	78 78 78 — — — — — — — — — — — — — — — —
Number year: Number year: Number year: Number Averag Number Number Number	1910 1911 1912 r of new 1910 1911 1912 r of Pul: 1910 1911 1912 r of Pul: 1910 r of Pu	Publi  Public I  blic I  olic La  vate I er of p er of s ghtsoi spools v cess v cess	c Latr	ines er des repa demol f night pails re emple constru	ected  aired o  ished o  soil reemove oyed t	during during during during during	the	Number.  13 13 13	Number seat	is.	1910. 1910. 147 435 435 18 104 104 104	1911. 1911. 147 435 435 102 102	78 78 78 — — — — — — — — — — — — — — — —
Number year: Number year: Number year: Number A verag Number Number Number Number	1910 1911 1912 r of new 1910 1911 1912 r of Pub 1910 1911 1912 r of Pub 1911 1912 r of Pub 1911 1912 r of Pub 1911 1912 r of of Pub 1911 1912 r of of niger number of niger number of niger number of cesser of cesse	Publi  Public I  blic I  olic La  vate I er of j er of s ghtsoi spools v cess cesspools	c Latr c Latr ctrines trines cleans pools of	ines er des repa demol f night pails re emple constru	ected aired o	during during during during during	the	Number.  13 13 13 — — — — — — — — — — — — — — —	Number seat	is.	1910. 1910. 147 435 435 18 104 104	1911. 147 435 435 15 102 102	78 78 78 — — — — — — — — — — — — — — — —

	1910.	1911.	1912.
Number of dustbins	47	47	
Number of carts, at work daily to remove refuse from streets		-	-
Amount of refuse removed daily	-		-
premises			-
Amount of refuse removed daily from yards and premises			
Number of men employed for moving refuse	28	34	

#### 10. Mode of Disposal of Excreta, Refuse, and Offal.

	nun	ily avera aber of p of excreta	ails	numbe	ily avera er of bar of refuse.	rels	Slaugh	verage n cartloads iter How arket Off	s of se and
	1910.	1911.	1912.	1910.	1911.	1912.	1910.	1911.	1912.
Buried or trenched Burnt Thrown into sea *Otherwise dealt with	 435	435	-	=======================================		-			

<sup>\*</sup> State mode of disposal.

# 11. Average daily number of cartloads of tin cans, bottles, broken crockery and other incombustible material removed from houses, huts and compounds.

1910.	1911.	1912.

Nature of Water Supply.				1910.	1911.	1912.
Pipe-borne water:—						
Source (river, lake, or spring):-				Spring		
Number of linear yards				_	-	-
Number of stand pipes along roads		***		3	4	
Number of stand pipes in compound	ds and h	ouses		48		-
Vells:						
Public:-						
Number				2	2	
Number with pumps protected ag	ainst sn	rface v	vater	-	_	
			***			
			377			
Private:-						
Number			mita	No later later later		-
Number protected against surface		u Most				
protected						1000
anks.—						
Public:—						
Number underground			***	1	1	-
Number mosquito-protected and set	rved by	pumps	***	-	-	-
		***		2	2	-
		***			-	
Number of 400 gallons capacity or	less	***	111		_	-
Number above 400 gallons			***	-		-

Nature of Water Supply.										1911.	1912.
anks:-											
Private:-										Vidar un	
Number	unde	rgroun	d						-	-	
Number				d						700	
Number							***		42	8	
Number				d			***			-	
Number	of 40	0 gallo	ns capa	city or	less		***	***	-	200	
Number	abov	e 400 g	allons					***		100	
Nature of ta				555							
Wood		***		***	***			***	-	-	
Iron	***					***	***		44	10	
Concret	e								1	1	
Barrels:-											
Number		***	***		***	***	***		641		
Number	r mosc	uito-p	rotecte	d	***		***		-	-	

## 13. Drainage.

	Nat	ture of	drainag	e.			Public.	Private.
asonry drain	ns:-							
Lineal ya	rds of	masor	ary dra	ains:-			The state of the s	
1910							12,865 yards.	-
1911		***					-	
1912						***	-	-
Lineal ya	rds re	constr	ucted	during	the y	ear:		
1910							_	
1911	***			***	***	***	-	-
1912			***	***	***	***	-	-
Lineal ya	rds re	paired	durin	g the y	ear:-			
1910			***	***		***	-	-
1911			***		***	***	-	-
1912				***			-	-
Lineal y			w dra	ains c	onstru	cted		
during	the ye	ear:-						
1910			***	***				
1911							-	-
1912					•••		-	_
arth drains								
Number o	f lines	ar yar	ds of d	itches	cleane	d:-		
1910				***		***		-
1911							-	
1912		***		***	***	***	-	_
Number of graded		ear ya	rds of	ditch	es dug	and		
1910							_	-
1911								
1912			•••		***	***		
			of cle	aring	ditche	s of		
grass:-		chey	or cre	aring	dieche	5 01		
1910							_	_
1911							_	-
1912							2	
1 3 1 1 25								

_	1910.	1911.	1912.
Number of square yards of weeds, grass, and vegetation cut and removed	=	=	=

lxxi.

#### 15. Excavations and low-lying land.

101 Date rations and 1011 Ging land			
_	1910.	1911.	1912.
Sumber of pools and excavations	2		
umber of excavations filled up	67	136	
mount of low-lying and marsh land raised and drained	_	-	
umber of pools, marshes, streams, &c., fish-stocked umber of cubic yards of material used for filling up pools and		-	
excavations		_	-
umber of persons fined for making new excavations	-	-	
verage number of men daily employed in filling up pools, &c.	_	-	_
40.000			
16. Oiling.			
	1910.	1911.	1912.
umber of drains oiled	4	_	
umber of pools and excavations oiled	2		
umber of tanks and barrels oiled	-	-	-
verage number of men daily employed for oiling drains, pools,	0	10000	
and watertanks or barrels	6		
17. Inspections and Prosecutions.			
	1910.	1911.	1912.
umber of inspectors employed	- 1	1	
umber of houses inspected	1,072	6.883	
umber of houses where larvæ were found	561	295	
umber of notices served to remove conditions causing the		66	
breeding of larvæ	16		
breeding of larvæ	7	64	
breeding of larvæ	16 7 1,263		-
breeding of larve	7	64	-



# 1. Name of Town: -Bonny.

	_			Approximate area.	Number of proclaimed open spaces.
1910				1½ Square miles.	_
1911	***	***	***	1½ Square miles.	3
1912					

#### 2. Population.

					Number of Natives. Number of Europeans.		Total.		
					Males.	Females.	Males.	Females.	Total,
1910									
1911	***	***	***	***	1,200	1,800	28		3,028
1912		***	***	***	-			-	

## 3. Housing.

				Number occupied by Europeans.	Number occupied by Natives.
Number of	House	es:-	-		
1910		***	***	6	300
1911				8	326
1912					

#### Number of Huts :-

1910	 	 _
1911	 	 74
1912	 	 

## 4. Mosquito Protection of Houses.

	1910.	1911.	1912.
Number of European houses wholly mosquito protected Number of European houses with mosquito room Number rendered during the year wholly mosquito protected Number rendered during the year partially mosquito protected	$\equiv$	=	E

	1910.	1911.	1912.
Number of public buildings erected with sanction as to site,			
construction, and relation to other buildings	-	1	-
Number of houses erected with sanction as to site, construction, and relation to other buildings		3	-
Number of huts erected with sanction as to site, construction,			
and relation to other buildings		5	
Number of houses build without sanction			-
Number of huts build without sanction	-		-

				Num	ber of l	Prosecu	tions.		Nu	umber d	emolishe	d.
				Huts.			Hou	ses.	Huts.		1	Houses.
910												
911		***							6			
912	***						_	-	-			
						6	Mar	rkets.				
									Number paved	bue		
			lu i			To	otal nu	amber.	drained.	and	Numb	er unpaved.
910 911								-	_			-
912												_
						7 Sla	nehte	er-houses.				-
									Number paved	and		
						То	tal nu	mber.	drained.	and	Numbe	er unpaved.
910								-				
911 912				***					_			
-			-			8	. Lat	rines.			10000	
								Fo	r Males.		For Fe	males.
								-		-		
			-					Number	Number of seats.	Nu	nber.	Number of seats.
Numbe	r of Pub	lic La	trines	-				Number		Nu	nber.	
Numbe	1910	lic La	trines	- :				3	seats.	Nu		seats.
Numbe	1910 1911								seats.	Nu	nber.	
	1910			:::				3	seats.	Nu		seats.
	1910 1911 1912 or of new	  Publi	  c Latr	ines er	  rected	 during	the	3	seats.	Nu		seats.
Numbe	1910 1911 1912 or of new :- 1910	 Publi	 c Latr	ines er	 rected	 during 	::: the	3	seats.	Nu		seats.
Numbe	1910 1911 1912 or of new	  Publi	  c Latr	ines er	  rected	 during	the	3	seats.	Nui		seats.
Numbe year Numbe	1910 1911 1912 r of new : 1910 1911 1912 r of Pu	 Publi 	 c Latr 	ines er	rected	during	::: the :::	3	seats.	Nu		seats.
Numbe year	1910 1911 1912 r of new : 1910 1911 1912 r of Pu : 1910	 Publi 	 c Latr 	ines er	rected	during	::: the :::	3 3 -	26 26 —————————————————————————————————	Nu	2 2 2	23 23 23 —
Numbe year Numbe	1910 1911 1912 r of new : 1910 1911 1912 r of Pu : 1910 1911	Publi blic I	c Latr	ines er	rected	during	::: the   the	3	seats.	Nu		seats.
Numbe year Numbe year	1910 1911 1912 r of new :	Publi	c Latr	ines er	rected	during during luring	the the	3 3 -	26 26 —————————————————————————————————	Nu	2 2 2	23 23 23 —
Numbe year Numbe year	1910 1911 1912 r of new :— 1910 1911 1912 r of Pu :— 1910 1911 1912 er of Pub	Publi	c Latr	ines er	rected	during during luring	the the	3 3 -	26 26 —————————————————————————————————	Nu	2 2 2	23 23 23 —
Numbe year Numbe year	1910 1911 1912 r of new :	Publi blic I	c Latr	ines er	rected of the control	during during during during	the the the the	3 3 -	26 26 —————————————————————————————————	Nu	2 2 2	23 23 23 —
Numbe year Numbe year	1910 1911 1912 r of new :— 1910 1911 1912 r of Pu :— 1910 1911 1912 er of Pub	Publi blic I	c Latr	ines er	rected of the control	during during during during	the the the the	3 3 -	26 26 —————————————————————————————————	Nu	2 2 2	23 23 23 —
Numbe year Numbe year	1910 1911 1912 r of new :	Publi blic I	c Latr catrine trines	ines er	rected of	during during during during	the the the the	3 3 -	26 26 —————————————————————————————————		2 2	23 23 23 — — — — — — — — — — — — — — — —
Numbe year Numbe year	1910 1911 1912 r of new :	Publi blic I	c Latr catrine trines	ines er	rected of	during during during during	the the the the	3 3 -	26 26 —————————————————————————————————	Nui	2 2 2	23 23
Numbe year Numbe year	1910 1911 1912 r of new :	Publi blic I dic La	c Latr c Latr atrine trines	ines er	rected of	during	the	3 3 - - - 3 -	26 26 26	1910.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	23 23 23 — — — — — — — — — — — — — — — —
Numbe year Numbe year Numbe Avera,	1910 1911 1912 r of new	Publi blic La vate I er of servers	c Latr	ines er	rected of the control	during during during during	the the the	3 3 — — — — — — — — — — — — — — — — — —	26 26 26	1910.	2 2	23 23
Numbe year Numbe year Numbe Avera, Numbe	1910 1911 1912 r of new 1910 1911 1912 r of Put 1910 1911 1912 r of Put 1910 1911 1912 r of Put 1910 1911 1912	Publi blic L lic La vate I er of s ghtsoi	c Latr c Latr atrine trines trines c latr	demol	rected of	during during during during cmoved and	the the the i dail clean an la	3 3 — — — — — — — — — — — — — — — — — —	26 26 26 — — — — — — — — — — — — — — — —	1910. 31 47	2 2 2 - - - - - - - - - - - - - - - - -	23 23 23 — — — — — — — — — — — — — — — —
Numbe year Numbe year Numbe Avera Avera Numbe	1910 1911 1912 r of new	Publi blic L lic La vate I er of s ghtsoi	c Latr c Latr atrine trines 1 men	demol	rected of	during during during during during	the the the the	3 3 3 pails subatrines a	26 26 26	1910. 31 47 47 —	2 2 2 - - - - - - - - - - - - - - - - -	23 23 23 — — — — — — — — — — — — — — — —
Numbe year Numbe year Numbe Avera Numbe ex Numbo	1910 1911 1912  r of new 1910 1911 1912  r of Pub 1910 1911 1912  er of Pub 1910 1911 1912  er of Pub ier of es er of ces er of ces	Publi blic I dic La vate I er of seghtson spools spools	c Latr c Latr atrine trines clean	demol	aired of	during during during during during	the the the	3 3	26 26	1910. 31 47	2 2 2 - - - - - - - - - - - - - - - - -	23 23 23 — — — — — — — — — — — — — — — —
Numbe year Numbe year Numbe Avera Avera Numbe Numbe Numbe	1910 1911 1912 r of new	Publi blic I lic La vate I er of ser of seghtsoi spools v cess v cessp cessp	c Latr c Latr c trines trines cleam pools cools at	demol	aired of	during during during during during emoved and to clea	the the the the the	3 3 — — — — — — — — — — — — — — — — — —	26 26 26	1910. 31 47 47	2 2 2 - - - - - - - - - - - - - - - - -	23 23 23 — — — — — — — — — — — — — — — —

	1910.	1911.	1912.
Number of dustbins	_	5	_
Number of drums, at work daily to remove refuse from streets	-	10	
Amount of refuse removed daily	-	165 dru	ms.
premises			
Amount of refuse removed daily from yards and premises			
Number of men employed for moving refuse	+ -	10	

#### 10. Mode of Disposal of Excreta, Refuse, and Offal.

	nun	ily avera aber of p of excreta	ails	numb	aily avera er of barr of refuse.	rels	Daily average numb of cartloads of Slaughter House an Market Offal.		
	1910.	1911.	1912.	1910.	1911.	1912.	1910.	1911.	1912.
Buried or trenched Burnt Thrown into sea *Otherwise dealt with	<u>-</u> 47	47			165 dru	 ms		1111	

<sup>\*</sup> State mode of disposal.

# 11. Average daily number of cartloads of tin cans, bottles, broken crockery and other incombustible material removed from houses, huts and compounds.

1910.	1911.	1912.
-	Removed in drums as above.	_

Nature of Water Supply.	1910.	1911.	1912.
Pipe-borne water:—			
Source (river, lake, or spring):-			
Number of linear yards	_		
Number of stand pipes along roads	-		-
Number of stand pipes in compounds and houses	-		-
Vells:—			
Public:—			
Nhan		13	
Number with pumps protected against surface water		10	
and mosquito-protected	-	10	
		10	1
Private:-			
Number		3	-
Number protected against surface water and Mosquito-			
protected			
anks:—			
Public:-			
Number underground			-
Number mosquito-protected and served by pumps		_	_
Number above ground		-	-
Number mosquito-protected	-	-	-
Number of 400 gallons capacity or less	-	-	
Number above 400 gallons		20.00	-

## lxxvi.

		3	1910.	1911.	1912							
Tanks:												
Private	:											
Nui	nber	under,	groun	d					***		_	
				rotecte			***			-	_	
Nui	nber	above	grou	nd							96	
				rotecte	d						96	
				ns capa		or less		***	****		79	
				allons		***				ann .	17	
Nature									70			
Woo	od		***			***	***		***	_	-	
Iro	1										88	
Con	crete			***	***	***			***		8	
Barrels	:									LOUIS TO STATE OF		
Nur	nber										8 .	
Nu	mber	mosqu	uito-p	rotecte	ed					-	8	

## 13. Drainage.

	Nat	ture of	drainag	e.			Public.	Private.
asonry drai	ns:-							
Lineal ya		masor	rv dra	ins:-				
1910							_	_
1911							_	1,266
1912							-	
Lineal ya								
1910							_	
1911							_	
1912							_	_
Lineal ya	rds re							
1910							_	
1911		***			***	***	_	-
1912			***				_	_
Lineal ya	the ye		w dra	ains e	onstru	cted		
1910			***	***	***	***		
1911	***	***	***	***	***		14 yards.	10 yards.
1912		***		***	***	***	-	_
arth drains					alaana	4.		
Number o			is or a				0.104	
1910 1911	***		***			***	2,124 2,410 yards,	
1912	***	***		***	***	***	2,410 yards.	
	f line		rule of	ditab	oo dine	and	The second second	
Number of		er ya	105 01	diten	es trug	omu		
1910								
1911	***	***	***	***	***	***	996 vande	The second second
1912	***	***		***	***	***	286 yards.	The state of the s
	freen	onor	of alo	oring	ditaba	10 0	De la Constitución de la Constit	State of the state
Average		енсу	or cie	aring	dicene	8 01		
grass:- 1910						1011	Every 14 days.	
1911		***	***	***		***	Every 14 days.	
1912	***	***		***		***	Every 14 days.	
1012	***	***	***	9.83		222		200

	1910.	1911.	1912.
Number of square yards of weeds, grass, and vegetation cut and removed	271,629 14 days.	271,629 14 days.	=

## lxxvii.

#### 15. Excavations and low-lying land.

201 March and 1011 Line min			
	1910.	1911.	1912.
Number of pools and excavations	_		
Number of excavations filled up		2	_
Amount of low-lying and marsh land raised and drained	_	1 acre.	
Number of pools, marshes, streams, &c., fish-stocked		- 110101	-
Number of cubic yards of material used for filling up pools and			
excavations		_	
Number of persons fined for making new excavations	_	_	
verage number of men daily employed in filling up pools, &c.	-	10	-
			1
16. Oiling.			
		1 1	
	1910.	1911.	1912.
Number of drains oiled		3	
Number of pools and excavations oiled		10	
Number of tanks and barrels oiled		2	
verage number of men daily employed for oiling drains, pools,		-	
and watertanks or barrels	_	1	-
17. Inspections and Prosecutions.			
	1010		****
	1910.	1911.	1912.
Number of inspectors employed		1	
Number of houses inspected	_	408	_
Number of houses where larvæ were found		320	_
Number of notices served to remove conditions causing the		020	
breeding of larvæ	_	460	
Number of persons fined for having mosquito larvæ on premises	-	69	
Number of notices served to remove insanitary conditions on			
premises	-	40	
Number of persons fined for not removing insanitary conditions			
after notice		2	_
Number of soda and aerated water factories inspected	-	Size.	
		1	



#### 1. Name of Town :- Opobo.

	-		Approximate area-	Number of proclaimed open spaces.
910		 		
911	*** 1	 	1 Square mile.	
1912		 		

#### 2. Population.

				Number	of Natives.	Number of	Total.	
				Males.	Females.	Males.	Females.	Total.
1910			 	961	100	48		1,109
1911	***	***	 ***	943	121	57	1	1,122
1912			 				- Contract	-

## 3. Housing.

	-			Number occupied by Europeans.	Number occupied by Natives.		
Number of	House	es:					
1910		***	***				
1911				12	21		
1912							

#### Number of Huts :-

1910	 	***	-
1911	 		96
1912	 1000		A Colle

## 4. Mosquito Protection of Houses.

TOTAL PROPERTY.	1	-
-	3	-
		-
	1	

	1910.	1911.	1912.
Sumber of public buildings erected with sanction as to site,			
construction, and relation to other buildings	4	5	-
umber of houses erected with sanction as to site, construction, and relation to other buildings	******	12	N
number of huts erected with sanction as to site, construction,			
and relation to other buildings	4	35	-
umber of houses build without sanction	-		
cumber of huts build without sanction		-	

				Num	ber of l	Prosec	utions			Nı	umber d	emolishe	d.	
				Huts.			Hou	ises.		Huts.	-	1	Hous	es.
1910							_			5 range	s.			5101
1911				-			-	-			276.0		-	200
1912	***			-			_			-				1100
						6	. Ma	rkets.						
						Т	otal m	umber.	Num	ber paved drained.	and	Numb	er u	ipaved.
1910				FRANKI			1						,	
911							1						1	
912							1000						-	
= 101						7. Sla	ught	er-houses						910
							otal nu			ber paved	and	Numbe	oe m	naved
							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	an-cir		drained.				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
910							1							
911							-			-				
912	****	***			***		199							
						8	3. Lat	rines.						
								Fo	or Male	284		For Fe	male	s.
									N	umber of			N	mber
								Number		seats.	Nu	nber.		seats.
Jumbo	n of Dub	lia Tar	tuinaa					Number			Nu	nber.		
Number	r of Pub	lic La	trines ;	-				13		seats.	Nu	nber.		
Number											Nu	nber.		
Number	1910 1911 1912 r of new		:::					13 18		seats.	Nu	nber.		seats.
	1910 1911 1912 r of new	Publi	  c Latri	  ines ere	 ected	luring	the	13 18		seats.	Nu	nber.		seats.
Vumber	1910 1911 1912 r of new		:::					13 18		seats.	Nu	nber.		seats.
Number	1910 1911 1912 r of new :- 1910	··· ··· Publi	  c Latri 	  ines ere	 ected	uring	 g the 	13 18 —		46	Nu	nber.		seats.
Vumber year	1910 1911 1912 r of new:— 1910 1911 1912 r of Pu	Publi	c Latri	 ines ero	ected o	luring	;;; the	13 18 —		46	Nu	nber.		seats.
Vumber year:	1910 1911 1912 r of new:— 1910 1911 1912 r of Pu:— 1910	Public L	c Latri	 ines ero	ected o	luring	;;; the	13 18 —		46	Nu	nber.		seats.
Vumber year:	1910 1911 1912 r of new:— 1910 1911 1912 r of Pu:— 1910 1911	Public L	c Latri	ines ere	ected o	luring	g the the	13 18 —		46	Nu	nber.		seats.
Number year: Number year:	1910 1911 1912 r of new 1910 1911 1912 r of Pu 1910 1911 1912	Public L	c Latri	ines ere	ected of	luring	; the the	13 18 —		46	Nu	nber.		seats.
Number year: Number year:	1910 1911 1912 r of new :	Public L	c Latri	ines ere	ccted o	luring uring uring	the	13 18 —		46	Nu	nber.		seats.
Number year:	1910 1911 1912 r of new 1910 1911 1912 r of Pu 1910 1911 1912 r of Pub 1910 1910	Public L	c Latri	ines ere	ceted of	luring uring uring	; the ; the ; the ;	13 18 —		46	Nu	nber.		seats.
Number year	1910 1911 1912 r of new :	Public L	c Latri	ines ere	ccted o	luring uring uring	the	13 18 —		46	Nu	nber.		seats.
Number year	1910 1911 1912 r of new :	Public La	c Latri	ines ere	ceted of	luring uring uring	the the	13 18 —		46			10.0	seats.
Number year:	1910 1911 1912 r of new :	Public La	c Latri	ines ere	ceted of	luring uring uring	the the	13 18 —		46	1910.	1911	10.0	seats.
Number year	1910 1911 1912 r of new 1910 1911 1912 r of Pu 1910 1911 1912 r of Pub 1910 1911 1912 r of Pub 1911 1912	Public La	c Latri	ines ere	ected of	luring uring uring	the	13 18 — — — — — —		46	1910.	1911		seats.
Number year: Number year: Number year	1910 1911 1912 r of new 1910 1911 1912 r of Pu 1910 1911 1912 r of Pub 1911 1912 r of Pub 1911 1912 r of Pub 1911 1912	Public La	c Latri	ines ere	ected of ired d shed d soil rei	luring uring uring and and and	the the	13 18 — — — — — — — — — — — — — — — — — —	stitut	9 — — — — — — — — — — — — — — — — — — —	1910.	1911		seats.
Number year: Number year: Number year	1910 1911 1912 r of new 1910 1911 1912 r of Pu 1910 1911 1912 r of Pub 1911 1912	Public La	c Latri	ines ere	ceted of cet	uring uring uring uring uring uring	the the I daily clean an la	13 18 — — — — — — — — — — — — — — — — — —	stitut	9	1910. 15 31	1911		seats.
Number year: Number year: Number year: Number year: Number year:	1910 1911 1912  r of new 1910 1911 1912  r of Pu 1910 1911 1912  r of Pub 1911 1912  r of Pub 1911 1912  r of Pub 1911 1912  r of Priv 1910 1911 1912	Public L  blic L  dic La  wate L  er of per of seghtsoil	c Latri	ines ere	ected of ired d soil removed yed to	uring uring uring uring uring uring	the the I daily clean an la	13 18 3	stitut nd re	9	1910. 15 31	1911		seats.
Number year: Number year: Number year: Number year: Number year: Number year:	1910 1911 1912 r of new 1910 1911 1912 r of Pu 1910 1911 1912 r of Pub 1911 1912	Public L blic L wate L spools	c Latri	ines ere	ected of ired d shed d soil renuoved yed to	uring uring uring and o clea	the the the the	13 18 — — — — — — — — — — — — — — — — — —	stitut	9	1910. 15 31	1911 23 43 43		seats.
Number year:	1910 1911 1912 r of new 1910 1911 1912 r of Pu 1910 1911 1912 r of Pub 1911 1912 r of Pub 1911 1912 r of Pub 1917 1910 1911 1912 r of Priv 1910 1911 1912 r of esser of cesser of cesser of new	Public L  blic L  dic La  wate L  er of per of s  ghtsoil  spools  r cessp	c Latri	mes ere	ired d soil ren moved yed to	uring uring uring uring uring	the	13 18 — — — — — — — — — — — — — — — — — —	stitut nd re	9 — — — — — — — — — — — — — — — — — — —	1910. 15 31 9	1911 233 433 430		seats.
Number year:	1910 1911 1912 r of new 1910 1911 1912 r of Pu 1910 1911 1912 r of Pub 1911 1912 r of Pub 1911 1912 r of Pub 1910 1911 1912 r of Priv 1910 1911 1912 r of of nig	Public La wate La er of per of seghtsoil spools spools or cesspoesspools or cesspoesspools or cesspoesspools or cesspoesspools or cesspoesspools or cesspoesspools or cesspools	c Latri	mes ere	ired d soil removed yed to	uring uring moved and o clea	the	13 18 — — — — — — — — — — — — — — — — — —	stitut nd re	9	1910. 15 31 9	1911 233 433 430		seats.

	1910.	1911.	1912.
Number of dustbins	26	26	West .
Number of carts, at work daily to remove refuse from streets  Amount of refuse removed daily  Number of carts, at work daily to remove refuse from yards and	-	40 c.f.	=
premises	-	1555	
Amount of refuse removed daily from yards and premises	26 barrels.	40 c.f.	-
Number of men employed for moving refuse	9	10	

#### 10. Mode of Disposal of Excreta, Refuse, and Offal.

	nu	Daily average number of pails of exercta.			ily avera er of barr of refuse.	els	Daily average number of cartloads of Slaughter House and Market Offal.		
	1910.	1911.	1912.	1910.	1911.	1912.	1910.	1911.	1912.
Buried or trenched Burnt Thrown into River *Otherwise dealt with	= 31 =	=	-		 40 c.f.			==	1111

<sup>\*</sup> State mode of disposal.

11. Average daily number of cartloads of tin cans, bottles, broken crockery and other incombustible material removed from houses, huts and compounds.

1910.	1911.	1912.
	68,228 bottles. 21,860 tins.	_

Nature of Water Supply.	1910.	1911.	1912.
Pipe-borne water:—			
Source (river, lake, or spring):-			
Number of linear yards		-	1000
Number of stand pipes along roads	-	-	
Number of stand pipes in compounds and houses		_	-
Wells:			
Public:—			
Number	2	2	_
Number with pumps protected against surface water	-	-	1
and mosquito-protected	_		_
			1555
Private:— Number			
Number			
pustantad	1	1	
	*		
Tanks.—			
Public:			1000
Number underground	_	-	-
Number mosquito-protected and served by pumps	90	977	
Number above ground	29	37	Mary .
Number mosquito-protected	29 27	37 35	100000
Number of 400 gallons capacity or less	27	2	-
Number above 400 gallons	2	2	

## lxxxii.

	N	ature	of Water	Suppl	y.			- 1	1910.	1911.	1912.
anks:											
Private:-											
Number	under	grom	nd				***		-		
Number				1					-	70	
Number										70	
Number										-	
Number					or less		***			_	
Number									-	-	
Nature of ta											
Wood									_		
Iron										107	
Concrete									10000	_	
Barrels:		100	1000		199						
Number										_	
Number						***	***		_	-	

## 13. Drainage.

Masonry drain Lineal yar 1910 1911	ds of m							
Lineal yar 1910 1911	ds of m		man diam					
1910 1911			ry ora	ins:-				
							_	-
1010							1,748	3,447
1912			***		***		-	_
Lineal yar	ds rece	onstr	ucted	during	the y	ear:		
1910								1000
1911								
1912							-	-
Lineal yar	ds repa	ired	during	g the y	ear:-			
1910							_	-
1911						***		
1912							-	-
Lineal ya			w dra	tins c	onstru	cted		
during t	he year	r:-						
1910				244	***	444	-	
1911				***			190	70
1912						•••	/-	-
Earth drains o								
Number of	linear	yard	ls of di	itches	cleane	d:-		
1910				***				
1911				***				
								-
Number o		r yar	rds of	ditche	es dug	and		
graded:	-							
1910			***	***			-	-
1911	***			***	***	***	200	
1912						***	-	-
Average 1		icy (	of cle	aring	ditche	s of		
grass:-								
1910	***		***	***	***	***	The state of the s	
1911			***				-	
1912				***			-	-
			1-6-64	LATE .	111 700			

	1910.	1911,	1912.
Number of square yards of weeds, grass, and vegetation cut and removed	-	75 acres monthly	-

#### Ixxxiii.

#### 15. Excavations and low-lying land.

-	1910.	1911.	1912.
fumber of pools and excavations		_	_
umber of excavations filled up	-		-
mount of low-lying and marsh land raised and drained sq. yds	-	4,000	
umber of pools, marshes, streams, &c., fish-stocked umber of cubic yards of material used for filling up pools and	_		
excavations	***	3,500	
umber of persons fined for making new excavations	-	_	-
verage number of men daily employed in filling up pools, &c.	-	50	-
16. Oiling.			
_	1910.	1911.	1912
umber of drains oiled			
umber of pools and excavations oiled		3	_
umber of tanks and barrels oiled	-	37	_
verage number of men daily employed for oiling drains, pools,			
and watertanks or barrels		1	
17. Inspections and Prosecutions.			
-	1910.	1911.	1912.
umber of inspectors employed	_	1	
umber of houses inspected	-	3,359	-
umber of houses where larvæ were found		17	-
umber of notices served to remove conditions causing the			
breeding of larvæ		4	-
umber of persons fined for having mosquito larvæ on premises umber of notices served to remove insanitary conditions on	-	4	
umber of persons fined for not removing insanitary conditions			
after notice	-	-	-
umber of soda and aerated water factories inspected		-	_

ROBERT W. GRAY.  $\label{eq:Medical Officer.} \textit{Medical Officer.}$ 





## 1. Name of Town: - Degema, Abonnema, Bakana, Buguma-

	_			Approximate area.	Number of proclaimed open spaces.
1910				2,024 Square miles.	_
1911		***	***		This is one complete area.
1912					The second secon

#### 2. Population.

Total.	Number of Europeans.		Number of Natives. Number of Europeans.			Number o			
Total.	Females.	Males.	Females.	Males.					
	=	6 40	55,000 55,000	65,000 65,000	 	 	1910 1911 1912		
			2000		 	 	1912		

#### 3. Housing.

	-			Number occupied by Europeans.	Number occupied by Natives.
Number of	House	es:-		Combination -	
1910			***	4	2
1911				15	12
1912			10000		

#### Number of Huts:-

1910	 	 22,000
1911	 	 22,000
1912	 	 

#### 4. Mosquito Protection of Houses.

	1910.	1911.	1912.
Number of European houses wholly mosquito protected  Number of European houses with mosquito room  Number rendered during the year wholly mosquito protected  Number rendered during the year partially mosquito protected	=	3	

	1910.	1911.	1912.
Number of public buildings erected with sanction as to site,			
construction, and relation to other buildings		5	1
Number of houses erected with sanction as to site, construction,			
and relation to other buildings	1	12	
Number of huts erected with sanction as to site, construction,		-	
and relation to other buildings		35	
Number of houses build without sanction			-
Number of huts build without sanction			-

#### lxxxvi.

	2			Nun	iber of	Prosect	ations.			Nu	mber der	molished	1.	
				Huts.			Hou	ses-	Н	luts.		Н	louses.	
910								_					****	
911	***	***					-	-	-				-	
912				-								-	-	
						6	. Mai	kets.						
						Т	otal nu	imber.	Number dra	paved ined.	and	Numbe	er unp	aved.
910								_						
911				***			1		-				1	
912			***	***	***					-				
						7. Sla	ughte	er-houses.						
						To	otal nu	mber.	Number dra	paved ined.	and	Numbe	er unp	aved
910														
911					1				_	-				
912		•••		***			-	+4				-		
						8	3. Lat	rines.						
								For	Males.			For Fer	males.	
												1		
								Number.	Numb		Num	ber.		iber
								Number.	Numb		Num	ber.		ber ats.
umbe	er of Pul							Number.			Num	ber.		
umbe	r of Pul 1910 1911	olic La	trines	- -		***		Number,	sea		Num	ber.		ats.
umbe	1910								sea	ts.	Num	ber.	se	
umbe	1910 1911 1912 or of new								sea	ts.	Num	ber.	se	ats.
	1910 1911 1912 or of new								sea	ts.	Num	ber.	se	ats.
umbe	1910 1911 1912 or of new : 1910 1911	··· ··· v Publi	  ic Latr	ines er	 ected	 during	the		sea	ts.	Num	ber.	se	ats.
umbe	1910 1911 1912 or of new : 1910	v Publi	c Latr	ines er	 rected	during	 g the		sea	ts.	Num	ber.	se	ats.
umbe year umbe	1910 1911 1912 er of new : 1910 1911 1912 er of Pt	v Publi	c Latr	ines er	ected	during	;; the		sea	ts.	Num	ber.	se	ats.
umbe year	1910 1911 1912 er of new 1910 1911 1912 er of Pe	v Publi	c Latr	ines er	ected	during	;; the		sea	ts.	Num	ber.	se	ats.
umbe year umbe	1910 1911 1912 er of new 1910 1911 1912 er of Po	v Publi	ic Latr	ines er	ected	during	g the		sea	ts.	Num	ber.	se	2
umbe year umbe year	1910 1911 1912 er of new 1910 1911 1912 er of Pe 1910 1911 1912	v Publi	 ic Latr .a 	ines er	ected	during	; the		sea	ts.	Num	ber.	se	2
umbe year umbe year	1910 1911 1912 er of new 1910 1911 1912 er of Pe 1910 1911 1912 er of Pul	v Publi	 ic Latr .a 	ines er	ected	during	; the		sea	ts.	Num	ber.	se	2
umbe year umbe year	1910 1911 1912 er of new 1910 1911 1912 er of Pe 1910 1911 1912 er of Pul	v Publi	 ic Latr .a 	ines er	ected	during	; the		sea	ts.	Num	ber.	se	2
umbe year umbe year	1910 1911 1912 er of new : 1910 1911 1912 er of Political Publical Publica	v Publi	ic Latr	ines er	ected aired iished	during	; the ; the ; the		sea	ts.	Num	ber.	se	2
umbe year umbe year	1910 1911 1912 er of new : 1910 1911 1912 er of Pol 1911 1912 er of Pul : 1910	v Publi	ic Latr	ines er	ected aired ished	during	; the ; the ; the ;	-1	sea	ts.	Num	ber.	se	2
umbe year umbe year	1910 1911 1912 er of new : 1910 1911 1912 er of Political Publical Publica	v Publi	c Latr	ines er	ected aired ished	during	the	-1	sea	ts.	Num	1 1 1 1911	se	2
umbe year umbe year	1910 1911 1912 er of new : 1910 1911 1912 er of Political Publical Publica	v Publi	c Latr	ines er	ected aired ished	during	the	-1	sea	ts.		1	se	2
umbe year umbe year	1910 1911 1912 er of new : 1910 1911 1912 er of Political Publical Publica	v Publi	ic Latr	ines er	rected aired iished	during during during	the	-1	sea	ts.		1	se	2
umbe year umbe year	1910 1911 1912 er of new : 1910 1911 1912 er of Pull : 1910 1911 1912 er of Pull : 1910 1911 1912	v Publi ublic I blic La	c Latr	ines er	rected aired ished	during	the	1	sea	ts.		1911	se	2
Tumbe year Tumbe year Vumbe Vera	1910 1911 1912 er of new 1910 1911 1912 er of Pu 1910 1911 1912 er of Pu 1910 1911 1912 er of Pu 1910 1911 1912	v Public I blic La ivate I ber of sightsoi	atrines	ines er	aired ished	during	the the the		sea	5	1910.	1911	se	2
umbe year umbe year vera	1910 1911 1912 er of new 1910 1911 1912 er of Po 1911 1912 er of Pul 1911 1912 er of Pul 1911 1912 er of Pul 1911 1912	v Publi ublic I blic La ivate I ber of ightsoi	atrines	ines er es repa demol f night pails re emple	aired ished	during during during during during	the the d dail; clean an la	pails substrines an	sea	ts.	1910.	1911	se	2 1913
Number year Number year Number year Number year Number year	1910 1911 1912 er of new 1910 1911 1912 er of Pu 1910 1911 1912 er of Pu 1910 1911 1912	v Publi ublic I blic La ivate I ber of sightsoils	atrines	ines er	aired ished	during during during during during	the the the dail	pails substrines an	stituted d remo	ts.	1910.	1911	se	2
Tumbe year Tumbe year Vumbe Avera Vumbe Vumbe Vumbe	1910 1911 1912 er of new : 1910 1911 1912 er of Pul : 1910 1911 1912 er of Pul : 1910 1911 1912 er of Pul : 1910 1911 1912	v Public I	atrines	demol	aired ished	during during during during during	the the d dail; clean an la	pails substrines an	sea	ts.	1910.	1911	se	2 1913
umbe year umbe year umbe year vera vera vumbe vumbe vumbe	1910 1911 1912 er of new : 1910 1911 1912 er of Pul : 1910 1911 1912 er of Pul : 1910 1911 1912 er of Pul : 1910 1911 1912	v Public I	atrines	ines er es repa demol f night pails re emple sed sed	aired	during during during during during	the	pails substrines an	stituted of remo	ts.	1910.	1911	se	2 1913

	1910.	1911.	1912.
Number of dustbins	_	91	_
Number of carts, at work daily to remove refuse from streets		777	-
Amount of refuse removed daily		182	
premises		1000	-
Amount of refuse removed daily from yards and premises	-	*150	-
Number of men employed for moving refuse			-

#### \*Drums.

#### 10. Mode of Disposal of Excreta, Refuse, and Offal.

				of refuse.			arket Off	se and al.
1910.	1911.	1912.	1910.	1911.	1912.	1910.	1911.	1912.
-		-				-	_	=
_	16	_	_	_		-		-
-		-	-	· Santa	-			
				<u>-</u>	<u>-</u>	<del>-</del>	<del>-</del>	= = = = = = =

<sup>\*</sup> State mode of disposal.

 Average daily number of cartloads of tin cans, bottles, broken crockery and other incombustible material removed from houses, huts and compounds.

1910.	1911.	1912.

Nature of Water Supply.	1910.	1911.	1912
pe-borne water:			
Source (river, lake, or spring) :-			
Number of linear yards			-
Number of stand pipes along roads			
Number of stand pipes in compounds and houses			
ells:			
Public:-			
Number	-	3	
Number with pumps protected against surface water			
and mosquito-protected	-	3	
Private:-			
Number		1	-
Number protected against surface water and Mosquito-			
protected		1	
inks:—			
Public:-			
Number underground			
Number mosquito-protected and served by pumps			
Number above ground			77
Vambon monaulta anatoatad	-		-
Number of 400 gallons capacity or less			-
Vambou above 400 callons			
Number above 100 ganons			

## lxxxviii.

Nature of Water Sup	1910.	1911.	1912			
anks:-						
Private:-						
Number underground		 	1	-	-	
Number mosquito-protected		 				
Number above ground		 		_	46	
Number mosquito-protected		 		1	46	
Number of 400 gallons capacity	v or less	 			38	
Number above 400 gallons		 			8	
Nature of tanks:—			32 11 03 7			
Wood		 		_		
Iron		 		-	Iron	
Concrete		 		_		
Barrels:-						
Number		 		-	_	
Number mosquito-protected		 		1	-	

#### 13. Drainage.

	Nat	ture of o	lrainag	e.			Public.	Private.
Masonry drai	ns:-							
Lineal ya		mason	ry dra	ins:-				
1910							-	-
1911			***				1,688	1,014
1912							-	_
Lineal ya	rds re	constr	ucted	during	the v	ear:		
1910							_	_
1911								100
1912								_
Lineal ya	rds re	paired	during	g the y	ear:-			
1910							_	4
1911							_	-
1912					***		_	_
Lineal y	ards	of ne	w dra	ains c	onstru	cted		
during	the ye	ar:-						
1910								-
1911							_	_
1912							-	-
Earth drains	or dit	ches:-				- 3		
Number o	f line:	ar yard	ls of di	itches	cleane	d:-		
1910		***					-	-
1911			***				980	100
1912							-	_
Number of	of line	ear ya	rds of	ditche	es dug	and		
graded:	-							
1910		***		***		***	-	-
1911					***	111	980	-
1912		***	***		***	- 112	_	-
Average	frequ	ency	of cle	aring	ditche	s of		
grass:-	-	1						
1910					***	***	_	_
1911							Monthly.	Monthly.
1912					****			_

	1910.	1911.	1912.
Number of square yards of weeds, grass, and vegetation cut and removed	=	5,000	=

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#### 15. Excavations and low-lying land.

	1910.	- 1911.	1912.
Number of pools and excavations	-	_	-
Number of excavations filled up			-
Amount of low-lying and marsh land raised and drained sq. yds	-	-	_
Number of pools, marshes, streams, &c., fish-stocked Number of cubic yards of material used for filling up pools and	_	-	-
excavations			-
Number of persons fined for making new excavations			-
Average number of men daily employed in filling up pools, &c.			
Average number of men daily employed in filling up pools, &c.  16. Oiling.	1910.	1911.	1912.
16. Oiling.		1911.	1912.
Vumber of drains oiled	1910.	1911.	1912.
Number of drains oiled		1911.	_
Number of drains oiled	1910.	1911.	1912.
Number of drains oiled	1910.	1911.	_

	1910.	1911.	1912.
			14
Number of inspectors employed	-	1	-
Number of houses inspected		7,269	
Number of houses where larvæ were found	-	214	_
Number of notices served to remove conditions causing the			
breeding of larvæ		18	-
Number of persons fined for having mosquito larvæ on premises		7	
Number of notices served to remove insanitary conditions on			
premises	-	22	-
Number of persons fined for not removing insanitary conditions			
-ft-m-sit-s		13	
		10	
Number of soda and aerated water factories inspected	-	-	annet.

E. H. TIPPER,



#### lxxxxi.

## 1. Name of Town :- Brass.

	-		Approximate area.	Number of proclaimed open spaces.
1910		 		_
911 912		 		
1912		 	_	

## 2. Population.

				Number o	of Natives.	Number of Europeans.		Total.
				Males.	Females.	Males.	Females.	Total
1910 1911 1912		 				16 17		
1911	***	 	***			17	-	-
1912	***	 						

## 3. Housing.

-				Number occupied by Europeans.	Number occupied by Natives.
Number of	House	es:-			
1910				6	
1911				7	
1912					

#### Number of Huts:-

1910		 
1911		 
1912	200	

## 4. Mosquito Protection of Houses.

-	1910.	1911.	1912.
Sumber of European houses wholly mosquito protected			
umber of European houses with mosquito room	-		-
umber rendered during the year wholly mosquito protected			-
umber rendered during the year partially mosquito protected			

	1910.	1911.	1912.
Number of public buildings erected with sanction as to site, construction, and relation to other buildings Number of houses erected with sanction as to site, construction,	0	0	
and relation to other buildings		1	-
and relation to other buildings	0	0	-
Number of houses build without sanction	3	2 ?	
Number of huts build without sanction	?	3	-

## lxxxxii.

			1		100								
				Nu	mber of	Prosec	utions			Nu	ımber d	emolishe	ed.
				Huts			Hou	ises.		Huts.			Houses.
910										6			
911										3			
912				-			_	-					-
											-		-
						6	. Ma	rkets.					
						Т	otal n	umber.	Numi	er paved drained.	and	Numb	er unpave
910		***					1	-		-			
911 912		***		***						_			-
012				***	***								
						7. Sla	ught	er-houses					
						To	otal nu	unber.		er paved drained.	and	Numb	er unpave
0.10													
910							-						
911 912	***		***		***					-			
		***	***	***									
						8	3. Lat	rines.				•	
								Fe	r Male	s.		For Fe	emales.
			-	-									
								Number		mber of seats.	Nu	mber.	Number seats.
								Number			Nu	mber.	
vumber	r of Pub							Number			Nui	mber.	
lumber	r of Pub 1910 1911	lic La	trines	:							-	mber.	
lumber	1910	***						_					
Vuniber	1910 1911 1912 r of new							_		seats.			
	1910 1911 1912 r of new				 rected			_		seats.			
Tuniber	1910 1911 1912 r of new : 1910 1911	  Publi	  c Latr	ines er		during	the	_		seats.			
Tuniber	1910 1911 1912 r of new :— 1910	 Publi	  e Latr 	ines er	 rected	 during	the	_		seats.			
vuniber year :	1910 1911 1912 r of new:— 1910 1911 1912 r of Pu	Publi	c Latr	ines er	rected	during	; the	_		seats.			
Vuniber year :	1910 1911 1912 r of new:— 1910 1911 1912 r of Pu:— 1910	Publi	c Latr	ines er	rected	during	; the	_		seats.			
iumber year :	1910 1911 1912 r of new:— 1910 1911 1912 r of Pu:— 1910 1911	Publi	c Latr	ines er	rected	during	; the the	_		seats.			
vuniber year : vumber year :	1910 1911 1912 r of new :	Publi	c Latr	s repo	rected	during	; the the	_		seats.			
Number year: Number year:	1910 1911 1912 r of new :	Publi	c Latr	s repo	rected	during	; the the	_		seats.			
Number year : Number year :	1910 1911 1912 r of new :	Publi	c Latr	s repo	rected	during	; the the	_		seats.			
Number year: Number year:	1910 1911 1912 r of new :	Publi blic I lic La	c Latr catrine trines	s repo	aired o	during during luring turing	the	_		seats.			seats,
Number year: Number year:	1910 1911 1912 r of new :	Publi blic I lic La	c Latr c Latr atrine trines	s repo	aired o	during luring luring	the the the			seats.			seats,
Number year: Number year:	1910 1911 1912 r of new :	Publi blic I lic La	c Latr c Latr trines	s repo	aired o	during luring luring	the the			seats.			seats,
Number year: Number year:	1910 1911 1912 r of new 1910 1911 1912 r of Pu 1911 1912 r of Pub 1911 1912 r of Pub 1911 1912	Publi blic I lic La	c Latr c Latr trines	ines er	rected on the control of the control	during	the the			seats.	1910.	1911	seats,
Tumber year: Tumber year: Vumber year:	1910 1911 1912 r of new :	Publi blic L lic La	c Latr c Latr trines	ines er	in rected of the control of the cont	during	the the the			seats.	1910. 27 28	1911	seats,
Number year: Number year: Number year:	1910 1911 1912 r of new 1910 1911 1912 r of Pu 1910 1911 1912 r of Pub 1911 1912 r of Pub 1911 1912 r of Pub 1911 1912	Publi blic La lic La er of per of seghtsoi	c Latr c Latr c trines trines trines latrine	ines er	aired o	during luring luring moved	the the		stitute	seats.	1910.	1911	1. 191 8 - 8
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	1910.	1911.	1912.
Number of dustbins	50	58	
Number of carts, at work daily to remove refuse from streets  Amount of refuse removed daily	Not used	_	-
Number of carts, at work daily to remove refuse from yards and	Not used.		
Amount of refuse removed daily from yards and premises	1 ton.	1 ton.	
Number of men employed for moving refuse		8	

\*Varies with No. of prisoners.

#### 10. Mode of Disposal of Excreta, Refuse, and Offal.

	Daily average number of pails of exercta.			Daily average number of barrels of refuse.			Daily average number of cartloads of Slaughter House and Market Offal.		
	1910.	1911.	1912.	1910.	1911.	1912.	1910.	1911.	1912.
Buried or trenched Burnt Thrown into River *Otherwise dealt with		27	1111	23	31			=======================================	=======================================

<sup>\*</sup> State mode of disposal.

11. Average daily number of cartloads of tin cans, bottles, broken crockery and other incombustible material removed from houses, huts and compounds.

1910.	1911.	1912.
No record.	39,029 bottles, tins &c.	_

Nature of Water Supply.	1910.	1911.	1912.
ipe-borne water:-			
Source (river, lake, or spring):-			
Number of linear yards	200		
Number of stand pipes along roads		-	
Number of stand pipes in compounds and houses	-	_	
/ells:			
Public:-			
Number	5	5	
Number with pumps protected against surface water			
and mosquito-protected	3	3	
Private:-			
Number	5	5	0
Number protected against surface water and Mosquito-			
protected	-		
anks.—			
Public:—			
Number underground		-	777
Number mosquito-protected and served by pumps Number above ground		- 0	
No. of the control of			
Number of 400 online committee to leave			
Number above 400 gallons			

#### lxxxxiv.

Nature of Water Supply.									1910.	1911.	1912
anks:											
Private:-											
Number	underg	groun	nd	***			***		-	-	
Number							***	***	777	700	
Number					***				45	41	
Number									40	39	
Number											
Number											
Nature of tar			Burions								
Wood									1	1	
	***		***	***	***	***	***	***		40	
Iron	***	***	***	***	***	***	***	***	44	40	
Concrete		***	***	***	***	***			-	-	
Barrels:											
Number			****								
Number	mosqu	ito-j	protecte	d					-	-	

#### 13. Drainage.

	Nat	ture of c	trainag	e.			Public,	Private.
dasonry drai	ns:-							
Lineal yar		masou	ry dra	ins:-				
1910							-	_
1911						***	200	
1912							-	-
Lineal ya	rds re	constr	ucted	during	the y	ear:		
1910							-	
1911		***					-	_
1912							-	_
Lineal ya	rds re	paired	during	g the y	ear:-	-		
1910	***						-	
1911						***	-	-
1912		***					-	-
Lineal ya			w dra	ins c	onstru	cted		
during	the ye	ar:-						
1910				***		***	-	
1911							-	-
1912							-	-
Earth drains	or dit	ches:-	_					
Number o				itches	cleane	d:-		
1910							-	-
1911							1,500	_
1912								_
Number of	of line	ear ya	rds of	ditche	es dug	and		
graded	-							
1910							-	-
1911								
1912								-
Average					ditche			
grass:-		1						
1910							As required.	-
1911								-
1912								

	1910.	1911.	1912.
Number of square yards of weeds, grass, and vegetation cut and removed	10 acres. Continuous.	_	-

#### lxxxxv.

#### 15. Excavations and low-lying land.

15. Excavations and low-lying land	•		
	1910.	1911.	1912.
Number of pools and excavations		_	_
Number of excavations filled up	1	-	-
Amount of low-lying and marsh land raised and drained	-	-	_
Number of pools, marshes, streams, &c., fish-stocked Number of cubic yards of material used for filling up pools and	-		
excavations			-
Number of persons fined for making new excavations		-	-
Average number of men daily employed in filling up pools, &c.		_	_
16. Oiling.			
- Total State of the State of t			
	1910.	1911.	1912.
Number of drains oiled	_	_	
Number of pools and excavations oiled	_	_	_
Number of tanks and barrels oiled	-	_	-
Average number of men daily employed for oiling drains, pools, and watertanks or barrels			
and watertains or parreis			
17. Inspections and Prosecutions.		,	
_	1910.	1911.	1912.
Number of inspectors employed		9	
Number of houses inspected	1	17,682	_
Number of houses where larvæ were found	-	3,957	
Number of notices served to remove conditions causing the			
breeding of larvæ		73	
Number of persons fined for having mosquito larvæ on premises	1	-	
Number of notices served to remove insanitary conditions on premises	_	200	
Number of persons fined for not removing insanitary conditions			Les Properties
after notice		2	-
Number of soda and aerated water factories inspected	-	-	-



TABLE V.

METEOROLOGICAL RETURNS FOR THE YEAR 1911.

			Темре	RATURE.			RAIN	FALL.		WE	dos.	
LAGOS	ş.	Solar Maximum.	Misimum on Grass.	Shade Maximum,	Shade Minimum.	Range,	Mean,	Amount in Inches.	Degree of Humidity.	General Direction.	Average Force.	Remarks.
January February March April May June July August September October November		141° 149° 151° 157° 151°- 150° 150° 149° 155° 157° 154° 149°	62° 71° 67°°2 68° 68°°3 66° 66° 66° 65° 70° 67°	89° 92° 92° 92° 89° 89° 93°3 87°2 89° 89° 89° 88°	65° 74° 69°9 70° 71° 70° 69° 71° 69° 72° 69°	22° 15°5 18° 16°3 16° 18° 19°9 18° 16°6 16° 14°8 17°2	76°3 82°5 81°6 80°8 79°4 78°5 79°5 78°3 79°1 81°0 79°8	4'57 0'29 11'26 7'87 21'12 25'35 1'39 0'30 2'94 7'98 0'32 3'69	72'4'- 71'6'- 73'8'- 73'1'- 79'4'- 82'3'- 78'3'- 76'9'- 77'6'- 75'1'- 72'8'- 76'8'-			
Total								87.08				
ABEOKU	TA.											
January				*	-	181	16		1/4			100
February		4	16		201	*	26.	201	.00			
March			*	10	*	*	0	7.80	*			
April		*	*	95°	68°	24°	81.0	8.65	94%			
May		*	*	93°	69°	20°	79°5	9.13	89%			
June	***	*	*	89°	68°	19°	77.08	8.94	89%			
July	***		*	87° 82°	69°	14° 14°	76°9 74°8	3.64	89%			
August				89°	70°	17°	77.05	4.33	84%			
October		*		89°	70°	19°		4.00	89			
November				90°	69°	17°	81°g	0.37	90%			
December			*	99°	63°	23°	80°2	2.15	94%			
Total								50.14				
IBADA	N.											
January		*	*	*		16		181	1/8			
February		*	*	99°	59°-	37	79°1		89%			
March	***	*	*	99"	60°	340	78-02	7.18	79%			
April May	***	*	1/5	96° 92°	58° 59°	36° 31°	77.06	7.67 4.85	89%			
June		*	*	96°	58°	33°	73.05		94			
July		*	*	95°	58°	33°	73.07	3.61	94%			
August		- 10	*	89°	56°	31°	69°8	0.70	88%			
Septembe		非非	*	95°	58°	32°	72-03		89%			
October		非	*	89° 92°	58° 59°	30°	73*4		89%			
November		*	*	93°	54°	29° 36°	76-0	0.10	94%			
								00.10				
Total		***			***	***		39.49	***			

<sup>\*</sup> No records available.

TABLE V.—continued.

#### METEOROLOGICAL RETURN FOR THE YEAR 1911.

			TEMPE	RATURE.			RAIN	FALL.		Wi	NDS.	
WARR	I.	Solar Maximum.	Minimum on Grass.	Shade Maximum.	Shade Minimum,	Range,	Mean.	Amount in Inches.	Degree of Humidity.	General Direction.	Average Force.	Remarks
January February March April May June July August September October November December		****	* * * * * * * * * * * * * * * * * * * *	90° 95° 95° 94° 94° 87° 85° 88° 92° 98° 95°	65° 68° 69° 69° 69° 69° 67° 68° 69° 70° 62°	24° 35° 24° 25° 23° 20° 18° 16° 15° 20 24° 32°	78°7 80°5 81°0 78°0 80°2 77°8 76°3 79°0 77°8 79°0 81°1 79°7	15'45 0'46 8'52 15'32 14'07 12'92 20'50 4'89 17'52 16'75 4'00 Nil.	89   85   85   89   89   89   85   85			
Total								130-40				
BENIN CI	TY.											
January February March April May June July August September October November December			* * * * * * * * * * * * * * * * * * * *	88° 92° 93° 90° 88° 86° 85° 88° 88° 88°	54° 58° 58° 58° 58° 58° 56° 59° 58° 59°	29° 33° 32° 30° 28° 28° 25° 24° 26° 28° 26° 29°	73°2 75°8 75°2 78°4 73°7 71°1 69°9 71°5 73°2 71°5 72°3	4°15 1°14 3°28 16°45 15°68 10°59 10°28 2°69 12°80 8°53 12°80 0°93	94   94   79   94   94   94   94   94			
Total								99.32				
BRASS							14			18		
January February March April May June July August September October November December		* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	89° 92° 91° 92° 90° 87° 86° 86° 86° 89° 90° 91°	65° 71° 69° 67° 70° 68° 70° 70° 71° 65°	24° 18° 20° 24° 16° 15° 16° 13° 18° 19° 24°	79°7 82°7 81°7 81°9 79°7 78°3 76°6 77°9 77°5 78°8 75°3 79°1	4'86 1'18 5'34 9'14 44'16 23'04 29'18 8'28 22'65 17'68 10'27 3'39	76% 72% 76% 72% 85% 80% 89% 84% 84% 85% 76%			
Total								179-17				

TABLE V.—continued.

### METEOROLOGICAL RETURN FOR THE YEAR 1911.

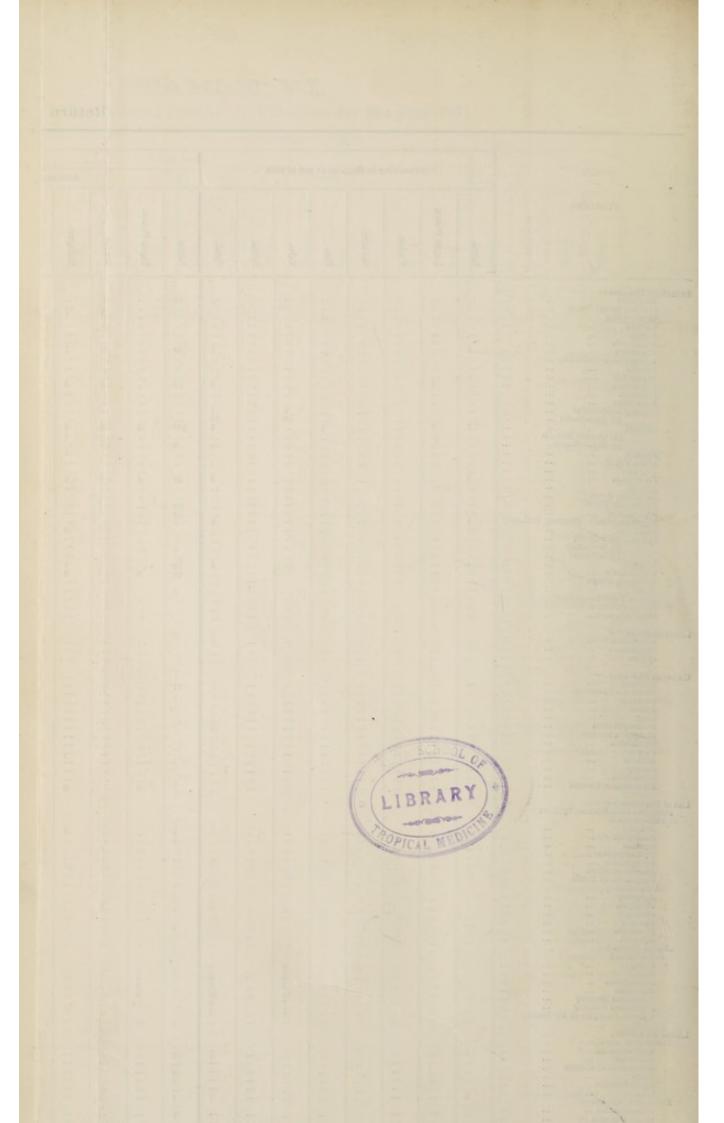
		ТЕМРЕ	RATURE.			RAIN	FALL.		WIN	ds.	
CALABAR.	Solar Maximum.	Minimum on Grass.	Shade Maximum.	Shade Minimum.	Range.	Mean.	Amount in Inches.	Degree of Humidity.	General Direction.	Average Force.	Remarks
January February March April May June June July Control September Cotober November December	* * * * * * * * * * * * * * * * * * * *	****	90° 94° 92° 92° 92° 88° 87° 87° 89° 94°	70° 70° 73° 69° 64° 62° 68° 67° 69° 69° 70°	19° 22° 19° 23° 23° 17° 17° 19° 23° 23°	80°2 82°7 81°1 82°0 78°7 75°8 77°2 76°5 77°9 79°2 79°5 82°3	1°26 1°38 3°28 7°10 15°96 18°47 18°68 25°79 14°30 14°41 3°69 0°55	90 - 85 - 80 - 76 - 80 - 84 - 84 - 84 - 89 - 85 - 84 -			
Total		***					124.87				

<sup>\*</sup> No records available.



TABLE VI.
Return of Diseases and Deaths (In-Patients) for the year 1911.

| _  | -  |  |  |  
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   | Nebers .   | 1  | 1  | 1  | Park.  | Total Contract   | Days Frie   
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   | 1  | 1  | Japa Prise   | 1   | 100  
   | 1  | 100  | 1  | 1  
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### TABLE VI-configued.

									Ret	urn	of D	iscas	es a	nd I	Death	8 (Is	-Pat	lents	) for	the	year	191	1.												
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Dioxide gas (from burning Sulphur, called the Clayton gas) on the weevil and on the maize. A report on these experiments up to the time I went on leave was submitted and while on leave at the request of His Excellency I endeavoured to find out if anything was known as to the effects of insectisides on the germinating power of maize. I found a pamphlet and a report by Dr. Wade to the Local Government Board to give me the best information though the available information was not much as to the germination of the maize, and a report of what was found has been submitted.

8 General Work and Assistance:—In addition to analytical work proper the general supervision of the Laboratory and clerical work occupied a good deal of time. The ordinary clerical work consists of the preparation of the monthly vouchers, registration of correspondence and samples as they are received and issued, preparation of reports, indent with copies, and generally keeping all books entered up to date.

One of the two native assistants qualified by examination as a dispenser was appointed to the Badagry Hospital on 21st March and I was left with only one assistant till I went on leave in June, when he was promoted as a Treasury Clerk. On my return in November two new assistants were required, and one vacancy was filled on the 1st December, the second at the end of the year. As these natives are not of a very high grade educationally, this fact in addition to so much changing throws so much of the more rudimentary work on to me that the utility of the Laboratory to the Colony is much diminished, the examination of many of the samples having to be delayed for some considerable time and certain special examinations which I have been instructed to do having to remain undone, until a suitable opportunity occurs. It is hoped, however, that conditions will soon be improved so that more work may be done by the Laboratory.

W. RALSTON.

Government Chemist.

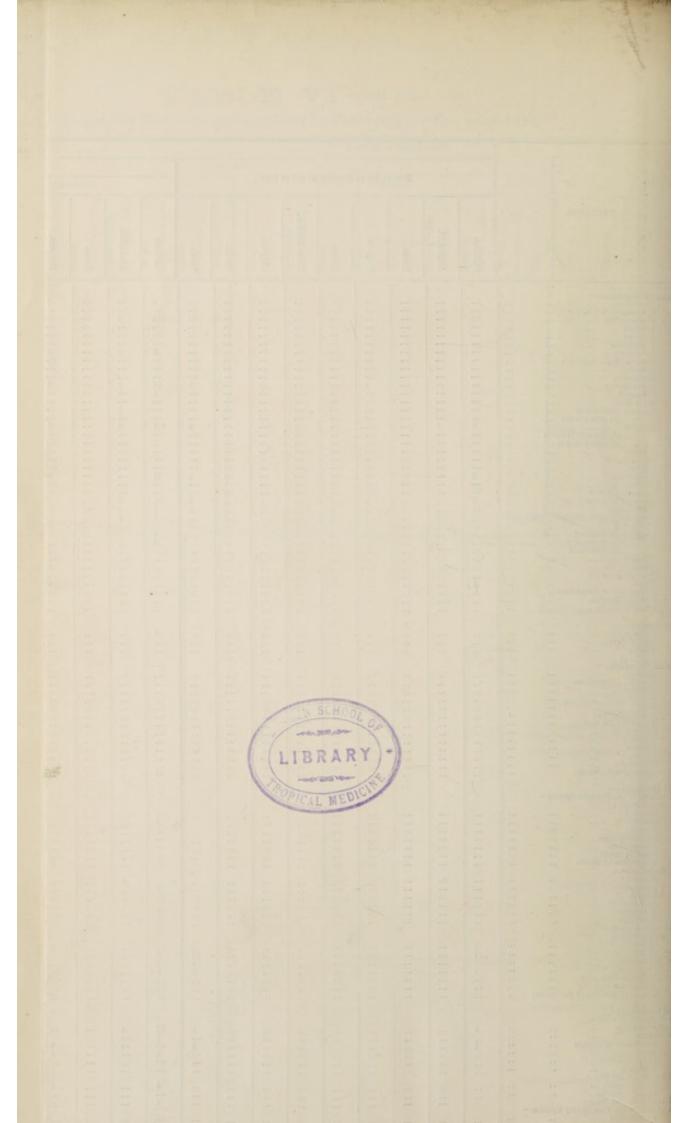
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Lagos, 13th February, 1911.

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								Algebraicht and Allert
								The second second
								yimakingan
								- was proposed to suppose the

### TABLE VIII.

### ANNUAL MOSQUITO RETURNS.

						Houses Inspected.	Number of Houses with Larvæ.	Number of Receptacles with Larvæ.	Average number of Recepta- cles with Larvae per House Inspected.	Average number of Receptacles with Larve per House where Larve are found.	Mosquito Index.	Rainfall.
,	WESTI	ERN	PRO	VINC	E.							
	Lagos	& E	BUTE N	МЕТТА								
1st 2nd 3rd 4th	Quarte	er				101,303 116,853 130,417 117,497	12,240 17,320 17,358 14,139	$\begin{array}{c} 14,\!564 \\ 22,\!890 \\ 22,\!578 \\ 17,\!842 \end{array}$	0.1 0.1 0.1 0.1	1.2 1.6 1.2 1.2	12.0 14.8 13.3 12.0	16:12 54:34 4:63 11:99
	Tot	tal				466,070	61,057	77,874	0.1	1.2	13.1	87.08
			AGRY.									
1st 2nd	Quarte					281	173	No Re 657	2.8	3.6	61.5	13.46 91.02
Brd	"					246	30	65	0.5	2.1	12.2	5.92
lth	" Tot	-1		***		1,851 2,378	273	117 839	. 3	3.0	3.7	8.06
	100	311				2,010	210	000		- 30		118.46
		A	RO.									
lst	Quarte	т			***	224		No Re			100,000	6.66
2nd 3rd	"					990 1,430	742 571	933 1,033	0.8	1.25 1. 2	74.9	26.72 9.01
th	,,					1,430	537	797	0.2	1. 2	37.5	6.61
	Tot	tal	***	***		3,850	1,850	2,763	0.7	1. 4	48.0	49.00
		IBA	DAN.									
Ist	Quarte	r					11	No Re	turns.			7.92
2nd 3rd	"								7/5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-			16:00
1th	"					508	48	48	0.09	1.0	9.4	9:56 6:01
	Tot	al					_	_	_	-	-	39.49
		10										
			PE.									
1st 2nd	Quarte	r						No Re	turns.			11:59 20:99
3rd	"		***			Or	10	0.0	1.1	0.0	01.0	12.90
1th	"	***		***	***	21	13	36	1.4	2.3	61.6	8.0
	Tot	al	***					-			-	62.48

# TABLE VIII.—continued.

### ANNUAL MOSQUITO RETURNS.

		RESU	LTS O	F Wo	RK D	URING !	THE FO	UR QUA	ARTERS	OF THE	YEAR.	
						Houses Inspected.	Number of Houses with Larvæ.	Number of Receptueles with Larvæ.	Average number of Recepta- cles with Larvae per House Inspected.	Average number of Receptacles with Larvæ per House where Larvæ are found.	Mosquito Index.	Rainfall.
	CENT	RAL	PROV	INC	E.							
	OHIT		RRI.									
4-4	Overstan							No Re	turns			24.43
1st 2nd	Quarte			***		32,557	160	480	0.01	3.0	0.2	42'31
3rd 4th	"					22,516 11,140	150 154	497 205	0°02 0°01	3·3 1·3	0.6	42.91 20.75
	Tot	tal				66,213	464	1,182	0.01	2.3	0.7	130.40
		For	CADOS.								Bur 481	
1st	Quarte	er						No Re	turns.			19.85
2nd	**					1,620	145	184	0.8	1.5	8.9	39.8
3rd 4th	"					1,560 6,003	47 36	54 47	0.008	1°1 1°02	2.0 0.6	34·5 34·1
	Tot	tal				9,183	228	285	0.03	1.2	2.4	128.25
		SAI	PELE.									
1st	Quarte	er		***				No Re	turns.			11.83
2nd	,,					4,319	45	56	0.01	1.24	1.04	41.99
3rd 4th	"					5,195 2,285	43 80	47 104	0°009 0°04	1.07 1.3	1.92 3.5	41.58 23.05
	To:			- 211			168	207	0.01	1.5	1.4	118:45
	To	tai		***		11,799	100	201		12	1.1	110.49
		BENI	N-CITY.									
1st	Quarte	er				1		No Re	turns.			8.57
2nd	,,					100	7	7	0.02	1.0	7:0	42.72
3rd 4th	"					169 140	7 29	7 55	0.04	1.0	4·1 20.7	25.77 22.26
2011	77				77777	409		69	0.1		10.7	99:32
	То	tai	***	***	***	409	43		-01	1.2	107	99'02
		Ac	BOR.									
1st	Quarte	er						No Re	turns.			
2nd						221	139	225	1.0	1.6	61.0	rns.
3rd 4th	"					903 74	232 63	464 117	0°5 1°5	2.0 1.8	25°6 85°1	etm
								806	0.6	1.8	36.2	No Returns
	То	tati	***	***	***	1,198	434	000	0.0	10	00.2	Z

# TABLE VIII.—continued.

### ANNUAL MOSQUITO RETURNS.

	I	ESUI	LIS OF	110	KK D	URING	THE EO	or dor	CHAINS	OF THE	I BAR.	
						Houses Inspected.	Number of Houses with Larvæ.	Number of Receptacles with Larvae.	Average Number of Recepta- cles with Larvæ per House Inspected	Average number of Receptacles with Larvæ per House where Larvæ are found.	Mosquito Index.	Rainfall.
CEN	TRAL	PR	OVIN	CE.—	contd.							
		ONE	TSHA.									
1st Q	uarter							No Re	turns.			7.01
2nd	"		***			1,022	705	1,644	1.6	2.33	68.9	27.79
3rd 4th	17	***				4,443 3,193	479 34	959 34	0.01	2.0 2.0	10.7	27.78 15.35
1011									- 0000000			
	Tota	al		***		8,658	1,218	2,637	0.3	2.1	14.0	77.93
		AB	OH.									
1st Q	uarter							No Re	turns.			3.41
2nd	,,					257	144	444	1.7	3.0	56.0	25 87
3rd 4th	"	•••	****			123 294	28 58	60 70	0°4 0°2	2·1 1·2	22.7 19.7	29°47 9°03
Tin	"	***	***					1000			-	
	Tota	al	***	***		674	230	574	0.8	2.5	34.1	67.78
E	ASTE	RN	PROV	INC	E.							
		CAL	ABAR.									
1						1 100	110	110	0:00	110	0.9	5:00
2nd	narter					1,192 3,068	112 169	112 169	0.02	1.0	9·3 5·5	5.92 41.53
3rd	"					2,881	73	73	0.02	1.0	2.5	58.77
4th	"	***	***			3,033	35	35	0.01	1.0	1.1	18.65
	Tota	al				11,174	389	389	0.03	1.0	3.8	124'87
		OP	ово.									
1et O	uarter							No Re	turns.			16.61
2nd						1,980	126	138	0.06	1.0	6.3	58.96
3rd	97					226	5	6	0.05	1.2	2.2	40.57
4th	"					3,359	17	28	0.008	1.2	0.2	21:35
	Tota	al	***			5,565	146	160	0.05	1.0	2.6	136.89
		Bo	NNY.									
						0.000	110	150	0.07	110	7.0	15:00
1st Q 2nd	uarter					2,008 2,266	148 259	176 310	0.07	1.2 1.2	7'3 11'4	15.96 97.01
3rd	**					782	62	74	0.00	1.2	0.0	59.90
4th	**	***		****	***	2,569	130	147	0.02	1.1	5.0	30.6
	Tota	al				7,625	599	707	0.09	1.1	7.8	203.47

# TABLE VIII.—continued.

#### ANNUAL MOSQUITO RETURNS.

					Houses Inspected.	Number of Houses with Larvæ.	Number of Receptacles with Larvae.	Average number of Recepta- cles with Larvæ per House Inspected.	Average number of Recepta- cles with Lavyæ per Bouse where Laryæ are found.	Mosquito Index.	Rainfall.
EAS	TERN PR		CE—c	ontd.							
		GEMA.									
	Quarter		***		1 720	00	No Re		4.00	210	9.34
2nd 3rd	"			***	1,733 1,198	93 128	144 250	0.08	1.5	5°3 10°6	40°24 37°75
4th	"	***			2,100	74	87	0.04	1.1	3.2	18.98
	Total				5,021	295	481	0.09	1.6	5.8	106:31
					0,021	200	101		10		100 31
tot i		CASSA.					No D	tunna			0440*
1st (	Quarter				2,149	302	No Re 483	0.2	1.5	14.0	24.65 76.76
3rd	"				1,235	20	38	0.03	1.9	1.61	60.11
4th	,,						No Re	turns.			33.51
	Total				3,484	322	521	0.1	1.6	9.2	196.93
			***		0,101	022	021		10	- 0 2	190 95
4-4		BRASS.					av. D			117	44.000
	Quarter				2,204	248	No Re 299		110	11.2	11.38
2nd 3rd	** ***				1,387	3	3	0.1	1.0	6.2	76°34 60°11
4th							No Re				51.34
	Total				3,591	251	302	0.08	1.2	6.4	
		***	***		0,001	201	302	0 00	14	01	179.17
4-4		VERRI.					N D				772.20
1st 2nd	Quarter	***	***	***	1.449	110	No Ro		9.0	7.7	6.12
3rd	,,		***	***	1,443	112	329 No Re	0.2	2.9	",	26:34
4th	,,				1,913	37	164	0.08	4.4	1.9	34·74 11·75
1011				***							
	Total	***	***		3,356	149	493	0.14	3.3	4.4	78.95
		CIGWI.									- 1-10
	Quarter				100			turns.		1 52	S. S.
2nd 3rd	,,			***	1,836 750	42 6	48		1.1	2·2 0·8	lin III
4th	** ***				1,898	6	6		1.0	0.32	No Rainfall Returns.
	Total				4,484	5.4	- 60	0:01	-	1.2	No
			***	***	1,101	54	60	0.01	1.1	12	
Int		ITU.		- 1	201	122			100	00.0	Ξ.
2nd	Quarter				221 222	53 54	53 57	0.5	1.0	23·9 24·3	infa rns,
	& 4th Qrs.					01		turns.	10		Rai
	Total					400	_		4.0	044	No Rainfall Returns.
		***			443	107	110	0.2	1.0	24.1	_
1		KALIKI									
	3rd & 4th Q				007			turns.	1	-	
and (	Quarter	***		***	697	3	7	0.01	2.3	0.4	

#### TABLE VIII.-continued.

### ANNUAL MOSQUITO RETURNS.

RESULTS OF WORK DURING THE FOUR QUARTERS OF THE YEAR.

					Houses Inspected.	Number of Houses with Larvæ.	Houses of Receptacles with Larvæ.	Average number of Recepta- cles with Larvæ per House inspected.	Average number of Receptacles with Larvae per House where Larvae are found.	Mosquito Index.	Rainfall.
EASTERN	PRO	OVINO	CE—ce	ontd.							
I	ком-С	DBUBRA	١.								
1st Quarte 2nd ,, 3rd & 4th Q		 rs			83 592	14 95	44 120 No	0°5 0°2 Returns.	3°1 1°2	16*8 15*8	14°7 31°57 31°57 12°35
Tot	al				675	109	164	0.2	1.5	16.1	89.74
		AN	NNUA	L RE	TURNS	OF AN	TI-MOS	QUITO V	VORK.		
Lagos and I Badagry	bute	Metta			466,070 2,378	61,057 273	77,874 839	0° 1 0° 3 0° 7	3.0	13.1	87:08 118:46
Aro Ibadan	***				3,850 508	1,850 48	2,763 48	0.09	1.4	48.0 9.4	49°00 39°49
Epe					21	13	30	1. 4	2.3	61.6	62.48
Warri					66,213	464	1,182	0.01	2.3	0.7	130.40
Forcados	***				9,183	228	285	0.03	1.5	2.4	128.25
Sapele					11,799	168	207	0.01	1.2	1.4	118'45
Benin City	***		***	***	1,198	43 434	69 806	0. 6	1.5 1.8	10.7 36.2	91.93
Agbor Onitsha					8,658	1,218	2,637	0.3	2.1	14.0	77.93
Aboh					674	230	574	0. 8	2.5	341	67.78
Calabar					10,174	389	389	0.03	1.0	3.8	121.87
Opobo					5,565	146	160	0.02	10	2.6	136.89
Bonny					7,625	599	707	0.09	1.1	7.8	203.47
Degema	***	***			5,021	295	481	0.09	1.6	5.8	106'31
Akassa					3,484	322	521	0. 1	1.6	92	196.93
Brass					3,591	251 149	502 493	0.08 0.14	1·2 3·3	6.4 4.4	179°17 78°95
Owerri Okigwi		***			3,356 4,484	54	60	0.01	11	1.5	10.00
Itu		***			443	107	110	0. 2	1.0	24.1	
Abakaliki					697	3	7	0.01	2.3	0.4	-
Ikom-Obubi					675	109	164	0. 2	1.2	16.1	89.74
	PRO	OVINC	TAL A	ANNU	JAL RE	TURNS	OF AN	ri-mosq	UITO W	ORK.	
					470.007	69.044	01 554	1.7	110	12:2	
Western P		Exclu	ding L		472,827 6,757	63,241 2,184	81,554 3,680	1.7 0.5	1.6	13·3 32·3	
CENTRAL PI			umg La	agos.	98,134	2,785	5,760	0.05	2.0	2.8	_
EASTERN P					45,115	2,424	3,394	0.07	1.4	5.3	-
	AND				616,076		90,708	0.1	1.3	11.1	

ARTHUR PICKELS,

Senior Sanitary Officer, Southern Nigeria.

#### TABLE IX.

#### TABLES OF CASES OF MALARIAL FEVER.

				Cases.		Deaths.			
			1909.	1910.	1911.	1909.	1910.	1911	
Western Province Central Province Eastern Province	 		370 149 244	347 174 296	287 198 211	3 2 —	3 1 3	1 _	
Total	 		763	817	696	5	7	1	
		N	ATIVES						
Western Province Central Province Eastern Province	 		2,393 1,028 1,983	2,876 1,285 1,971	3,042 1,572 1,834	8 7 4	- 4 6	$\frac{10}{7}$	
Total	 		5,404	6,132	6,448	19	10	17	
тота				ARIA Native	TREA	TED			
Western Province Central Province Eastern Province	 		2,763 1,177 2,227	3,223 1,459 2,267	3,329 1,770 2,045	11 9 4	3 5 9	11 -7	
Total	 		6,167	6,949	7,144	24	17	18	

Lagos Warri Calabar						175 40 94	199 73 124	172 51 76	-	$\frac{3}{1}$	1 -
---------------------------	--	--	--	--	--	-----------------	------------------	-----------------	---	---------------	-----

#### NATIVES.

Lagos Warri Calabar						1,728 226 574	2,150 325 904	2,410 424 859	5 1 -	- 1	9 1
---------------------------	--	--	--	--	--	---------------------	---------------------	---------------------	-------------	--------	-----

### TOTAL CASES OF MALARIAL FEVER.

#### (EUROPEAN AND NATIVES.)

Lagos		***			***	1,903	2,349	2,582	5	3	10
Warri		111	600	4 4 4	***	266	398	475	1	-	
Calabar	***					668	1,028	935	-	2	1

#### TABLES OF BLACKWATER FEVER CASES.

					Deaths.			
			1909.	1910.	1911.	1909.	1210.	1911.
Western Province Central Province Eastern Province	 		14* 13 4	17 11 6	17 2 7	4 4 2	3 3 1	6 2
Total	 		31	34	26	10	7	8
	*Inclu	ides 1 I	lindu and	1 Syrian.				
Lagos	 		7	11	9	-	1	5

#### POPULATION ACCORDING TO THE CENSUS RETURNS.

			Residents.	Europeans Local Steamers.	Ocean Steamers.	Asiatics.	West African and other co- loured Races.
Western Pr	ocince	 	707	83	72	63	2,151,923
Central Pro	vince	 	429	1	476	3	2,407,685
Eastern Pr	ovince	 	428		158 72	33	3,296,628
Lagos		 	453	83	72	43	73,115
Warri		 	66	1	49		2,451
Colabar		 	148	2		27	14,086

#### ARTHUR PICKELS,

(Syrian)

Senior Sanitary Officer. Southern Nigeria.

(Syrian)

20th May, 1912.

Warri

Calabar

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											Western Orange Linux Linux	
										2.		



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