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29376 East Africa Protect 507 Or 1 at August 19 The Secretary, I am directed y the Royal Touch sees dystelling to transmit to MINUT Mr. Mofaire 2198 You for the sup of the Mayal we Read Mayer Vocate the Report of the Mr. Antrobus Mr. Cos. / Medical Department of the Mr. Inch. Mr. Gasam. last office and Elgente Sir M. Ommanney. The Duke of Mariborough. Property for 1904, and I am to M. Lystellon. call attention to the reforence to Skeping sickness at life 42 - 47 and to the Appendixes which deal with the same m anguar matter. I am to ask that the Asport may be returned other donnord as longer Jam cel



Burlington House.

London W.

August 25, 1908.

sir,

I have to admostledge the receipt of yr. Moss' letter of yesterday enclosing the Report of the Medical Department of the most Africa and Uganda Protectorates for 1804. I bag leave to return the thanks of the Reyal Society to Mr. Lyttalte of his courtesy in afrowing the Society a permed of this valuable assument. The references to Mesping Sickness in the body of the Report and in the Appendices will be of much interest to the Propinal Dispusses Countities before which the Report will be laid at its first meeting. As nearly all the numbers are now descent an vacation, it will not be possible to held a meeting for some works hence, but care will be taken to return the Report after it has been considered by the Committee.

I on, Sir,

Your obedient Servant,

Under Secretary of State, Colonial Office.

Secretary R. S.

And Gritice

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MINOR 26376

W 16 AUG 05

Sir.

I have the homer to former the American

Report for the Medical Department of Bast Africa and Uganda for 1904 in which are included the following

appendicen:-

No. 1. Report by Dr. P.H.Rose, on experiments conducted at Makindu and Mairobi on the transmissability of Tryposcocous by different apocios of Tootos fly - 4th a nate on the Matural Occurrence of Piroplaments in the sonkey, marked No. 11. Report by Dr. A.D.P. Hedges on Shooping Sickness in Unyers and the Mile valled with an appendix marked II.

No.111. A Resume of the mork dens at the Royal Seciety's Laboratory, Betebbe, during 1904 by Lt: A.C.H.Gray, R.A.M.C.

> I have the honour to be, Bir, Your most shedient, humble permant,

Principal Medical Officer, Bast Africe & Uganda Protectorates. (MDS)

Puty Commissioner,

the Medical Place of the Protests

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Beatth Officer, Bush

to Assistant Principal Bedical Con-Besterlebertet.

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Se. W. L. Harderson, telling on Superbor Miles and me pested to Kin

The health of the Covergence Officials has as the while hear good, and, although probleting for comparison are not available, it my enfoly be note that dust during the part year or too it has been made as a standy improvement in both Protectoration this improvement is due to purious furture, the whier of thick are better bounday, greater facilities for provering militable food, and a more intelligent operadiation of the proper greaterists to be observed to great auction the proper greaterists to be observed to great auction these in the trapies.

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Three deaths are reserted for the year visit is. J. V. Trittenglakic, but-Commissioner for Styllio Province, from exhaustion the result of chronic generaties of long standing.

A. Die de Rivain, alemany extraction on S. Dr. D. J. Yorke, Assistant Collector, Collec-Tree Supergraphic following Military Squares by an

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the had to minist largely, often entirely in the food of the country then from mad, will, and reptables were empressently, and its production who as doubt assisted by the then universal hable of countries to - drinking duitable food is now more easily presured and the ten - drinking table is dring out, but it is very actionable how many of the alder afficials suffer from some form of Dyapopeia or destrictio, much probably due to the course above mentioned.

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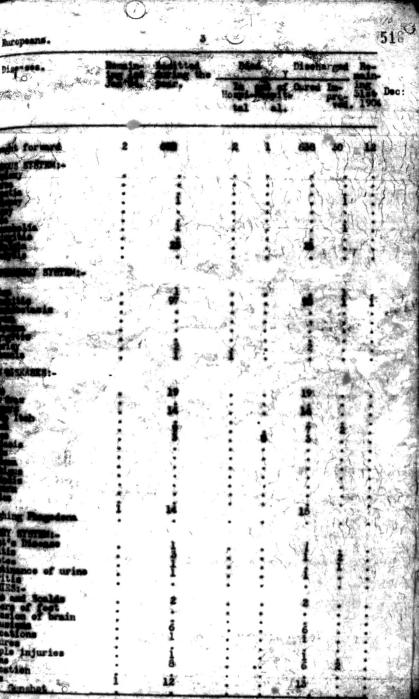
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The only diseases that call for special metics are t-

570 Blackmater Perer - 7 cases were under treatment with 2 double. One of the deaths has already been referred to, the other was the Biefe de Jack, ald Madelai, in the Congo, she was attended by the Medical Officer, Wadelai.

This disease appears to be decreasing in frodisney among Buropeans in both Pretesterates, Ste decrease being no doubt due to the greater care got exercised against malarial infection. Ourparatively little is known of its cause beyond the fact that frequent attacks of Malerial Power especially if neglected or the patient is subjected to a chill during recently, prediapose to it - Balaria flamedia are almost invariably found in the blood in the on stage of the diseast, and it appears to be separated with the milder forms of malaria rather than the severe. In some tropical countries where fatal opidenies of malaria coour, Blockmater favor may be unknown. Its ediclory requires further almoidables.

Die most successful treatment in these Protecterates seems to be October in the early stage and later fardies tenies.

Polapsing Peter - 9 cause are recorded, all in Umanda, It has not been reported so far in Buch Africa, although it is probable it does seem in that Protestorate.

This discuss we first sheared and reserved in Uganda by Dr. Hodges in October 1903, but there is me doubt it had existed for years prior and bes looked owing to the symptoms being scasshat similar to those of maleria and the spirition not whithe the free flagellum of malaria.

The disease is caused by the bite of a siet, hence it is also called Wink Perer

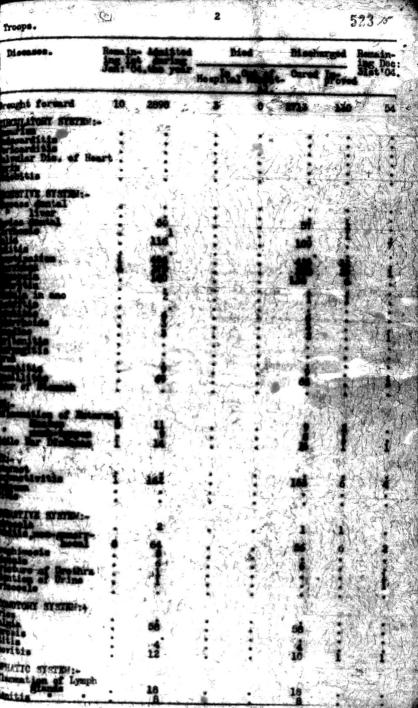
en the march and elesping in rest houses. The rest houses and perters camps in Uganda are invested with ticks and other vermin.

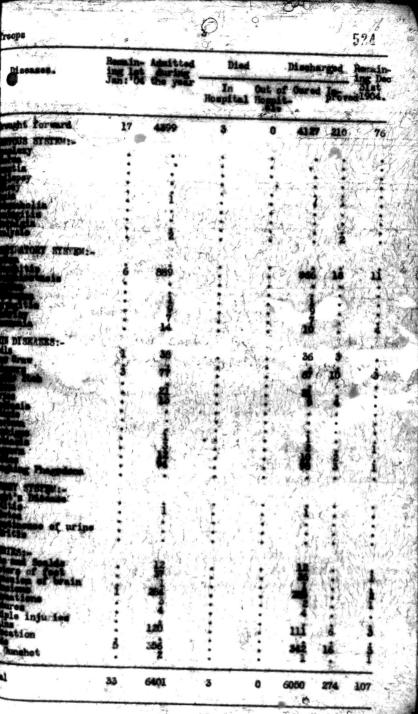
- 5. Malaria This was mostly of the intermittent type.
- 4. Ulgers At certain seasons of the year especially in East Africa, slight abracions take on ulceration which is troublesome to heal, and although more tractable than is not unlike, the volat Sere of South Africa.
- 5. Gastritis and Dyspepsia have already been alluded to.
- 6. Hepatitis or enlargement of the Liver with a certain amount of terderness over the region of that organ and elight pyrexis is not uncommon. 14 cases are recorded with one death.
- 7. Brenchitis of a subscute nature and Brenchial catarrh are prevalent in the highlands of East Africa during the dry season and are caused by the dry atmosphere and particles of dust carried by it.

Tables 111. and 1V. show the cases of sickness to among the Troops in East Africa and Uganda respectively. AND and E. A. Hifles,

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the number of deaths 5 or 4.86 per 1,000 and the
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The cases invalided were:
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Progressive Musoular Atrophy

Although the adminsion rate appears high, it will be noted that many of the diseases recorded are of a trivial nature not requiring hospital

Tables V. and VI. show the midistration to whome the Police of both Protectorates.

treatment and not incapaciating from duty.

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The average strength of Police in Bast Africa 539 was 1,790 the number of administrar 4,414 or 2024.55 per 1,000; of deaths 7 or 3.91 per 1,000; and invalided of 9 or 5.02 per 1,000.

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In Uganda the average strength of Police was 918 the admissions 1,619 or 1765,6 per 1,000;deaths 15 or 14.16 per 1000; and invalided 5 or 3.26 per 1,000 The cases invalided were one of each Syphilia, Golitis and Rheumatian.

Tables VII. and VIII. show the number of cases treated among the general native population and include Africans and Indians.

NATIVES,

TABLE VII (APRICAN AND ASSATICS)

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TABLE VIII (Africans and Asistica)

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Tables III. IV., T., TI., TI. and TIX will be discussed together, the general remarks applicable to Troops and Police being equally applicable to the matives from while with the empirion of the Indian. The Contingent, the Troops and Police are drawn.

The editation rate for with Troops and Police is shown higher in East Africa than in Upanto. So for any the Police are concerned the lower sick rate in Upanto is accounted for by there being more outposts in that Protectorate at which there is no medical establishment and from which sick raterns are not received.

The total number of matives and Asiaties treated during the year was 67,548.

General Diseases— the most numerous were Unears, Absolute and Collulitie. Then a mative scale with an absolute the skin or even a there prick, from magical active absolute of classificate aspects acts up and the result is true of the 3 conditions above mentioned. Flower were responsible for 15,986 admissions Absolute for 1,126 and Gallhittis for 485. Next in from the little for 485. Next in fr

Syphilis and Venerual Diseases.

The admissions for Hybritts were 2,800. The disease is extremely sommon over the shele of Uganda with the exception of the Hile Province shore the actives appear to be more virtuous, and prevails to a great extent among the tribes in Hast Africa, except enough the Kawirondo who are of Zeffectic origin. It is especially prevaient among the Mania.

Rhoumatian.

There is a good deal of Businetism of a submittee

Dysentery.

The number of cases recorded was 846, with 14 deaths of a mortality of 1 66 per cent: a result so favourable that one must ease to the escalusion that the great majority of the cases was not of the type formerly known as Trepical Dysontery which used to be considered next in importance enong tropical diseases to malaria.

It is to be regretted that microscopical examination of the stools in these cases was not more generally and systematically carried out, and that practically nothing has been discovered towards elucidating the special eticlogical factor in this important disease. There is every reason to believe that under the name "Dysentery" several distinct diseases are included and this term can therefore only he looked upon as applicable to a group of symptoms due to a variety of causes. Although many paraditis have been incriminated little is as yet known of the real cause of the melady, and its "Stiology, requires further elucidation. There is no doubt that in many cases it is a borne disease, yet in East Africa, where the water as a rule is of better quality than in Uganda, it is more prevalent than in the latter Protectorate but in less severe form.

Yawa.

There were 665 admissions for this disease which is met with ever both Protesterates, but is more prevalent in the Nile Province and Kazirondo than elsewhere. As syphilis is less prevalent in these 2 Provinces it may be argued that Yaws is not of eyphilitie origin; nevertheless most of the cases are assemble to Petassium Iodide internally and the local application of Skiphate of Copper.

Pax. 230 cases are recorded with 65 deaths. This disease is endemic in many districts of 550 beth Pretectorates, and epidemics occurred at Witu, humina, Entembs, Kampala and Mbarara. Epidemics may be expected to break out for many years to come or at least till greater facilities can be obtained for efficient vaccination. Not that native as a rule ebject to be vaccinated, on the contrary, when it is explained to them that the operation may present them acquiring smallpex, a disease they have a great dread of, thay are keen enough to have it done, but the greatest difficulty is to get them to come in for this purpose.

Vaccinating tours have therefore been carried out in some of the districts with marked success.

Scurvy. Isolated cases of this disease occur in both
Protectorates, due no doubt to deficient and bad
food with bad hygienic conditions.

Sleeping Sickness . 132 admissions are reported with 73 deaths. These numbers represents only a tithe of the cases which have occurred and died during the year. Very few come for treatment and they are mostly in the last stages of the disease.

The disease has been known for well over 100 years on the West Coast of Aprica, from Senegambia to Angela, and in recent years, ewing to the development of trade, gas, spread to the Congo basin from where it is supposed, and the supposition is probably correct, it was conveyed by the survivers of the Emin Pasha expedition to Usega where all the conditions favourable to its further development already existed. It appeared in Usega is 1897 and since then has apread along the morthern shores of the Victoria Nyanza and along the rivers flowing into it.

Recently it has been discovered that the disease has existed in endemic areas along the wastern shore of lake Albert in the triangle between Butiaba and Foweira, and cases have been reported on the White Mile of far north. as Nimile.

It is not possible to estimate even approximately the number of deaths since its out break, but many themisands of the impubitants of Ugands, Usoga and Kavirondo have perished, while the Sess group of islands, the island of Buvuma, and many of the smaller islands in Lare Victoria have been practically depopulated.

It continues to aproad in South Kavironde and there appears to be no shatement of its ravages in Upanda. In Usega, the chiefs state that making every allemnos for the reduction of population already caused by it, the disease is dying out.

Africa to User, below age preventive or directive somewres are discovered a further spread to Realistics possessing conditions favourable to its existence must be expected.

It has now been conclusively proven that the discouse is due, as pointed by Brune in 1905, to the presents of a Trypanesome in the blood, and that the Trypanesome in conveyed from the infected to the healthy by means of Tastes fly. It has also been proven that the Tretse fly Glussine palpalists a carrier of the Trypanesome but has not yet been definitely determined whether other species of glossine or other biting flies are not also capable of carrying it. Br. P.H. oss has been engaged for the last 12 months on experiments with the object of discovering shether other species of Tastes fly besides the glossine palpalis can carry the Trypanesome Mis report (appendix No.1), is attached.

It was at first supposed that the Trypano- 552some infection was directly from the probesis and that there was no increase of the Trypanoscens in the body of the fly similar to the melarial plasmodfum in the mosquite, but, if this is so, it is difficult to see how infection on the die tensive soule which has been experienced in this epidemie could be possible. The trypanosome is not at any time very meserous in the blood, and in regard to this Lt: Gray states in his manary of wirk done in the Sleeping Sickness Laboratory that a certain per centage freshly caught flies have been found to contain large numbers of "ry enoscess also that flies and artificially infacted showed a large increase, pointing to the probability of there being a cycle of evolution within the body of the fly.

In the end of the year Dr. Hodger investirated the occurence of Siceping Sickness in T.
Unyero and on the Vile. In his Separt (appendix
11.) he points out that the fly is found in much
smaller areas than was at first imagined and
that he never found it at any distance from open
sater and shady bush, which appear to be the conditions essential to its existence. We does not
apprehend in this part of the Ugunda Protecturate
an epidemic of any magnitude such as has been
experienced on Lake Victoria, the conditions for
a wide appead epidemic being absent.

Treatment. With regard to treatment there is unfortunately little or no progress to report.

Arsenie in large doses has been tried in a 553 limited number of cases at Entebbe, and in early infections causes a temperary disappearance of the Trypenosomes from the blood and a slight improvement in the general condition. On cessing its administration, Trypenosomes again appear.

Trypansoti- an aniline substance introduced by Professor Enrich, has also been tried at Entebbe. Its results are entirely disappointing.

Serum injections - Dr Haran made intrammoular injection of the serum of the goat, an animal supposed to be immine to the diseases carried by the fly. A temporary improvement was noted in some cases but was not maintained.

Lawren has recently published the results of experiments carried out on white rate and does infected with Trypanosomiasis, by injecting alternately armenic and trypanosomiasis and reports a cortain amount of success. This method of treatment is also being tried at the Sleeping Sickness Laboratory, Enterpole, and the result is assisted with interest.

habits and life history of the Trotse fly - the intermediate lost - its perfection is not at present a practicable measure.

In these localities, in north Unyore and on the Nile, where the fly belt is patchy and very narrow and where the natives do not reside close to the rivers but get bitten when creasing the fly belt to draw water he it would be quite feasible to clear away a sufficient length of the fly invested sorub apposite native villages to ensure access to the rivers without being bitten.

On the sheres of take Vistoria the fly belt is ridar and more continuous, the natives do not live

live in villages but on their patches of cultivation, and the population is much more numerous. Here the clearing away of sufficient sorth would be a colorest undertaking and hardly practicable.

Haring repard to the enormous mortality already caused by and still taking place from this disease, to the now established fact that Europeans are not inmune to it (it is a sted that 14 Europeans have been infected in the Congo Free State), and to the consequent loss of revenue to the Government as well as to the serious question of fatore labour supply in panda, it is most desirable that seme comprehensive measures should be instituted having for their ebject the discovery of a remedy or of means of prevention. Practical measures for the extermination of the fly are, for the present at least, beyond hope of realisation, but there does not appear to be any reason why some medicinal or other remedy should not be . discovered which would dentroy the Trypanes me winthe blood and thus remove the source from which the fly becomes infected - The generation of infected flies would in course of time die dut. Our greatest haps of success would undoubtedly be in treating the early or Trypanosomiasis stars.

The number of cases treated with arsenic have been far too limited to base any conclusion of either success or failure on. It would therefore he necessary to institute a fresh series of experiments altogether apart from the purely scientific work being darried out at the forest society's laboratory at finishbe. These experiments should be carried out in the fly areas sunng the infacted population which could then be systematically examined and recorded according to the stars of the disease the individual is injury a prolonged and extensive trial of arsenic and other drugs made - at the same time characters could be made.

Laboratory. The "lesping Sickness Laboratory at Enterior should be somewed from its present site. When the site was seen ted little was known about the disease and nothing whatever about the cause and mode of preparation. With the infected experimental animals, it is situated within a few yards of the European and Native Mespitals and practically in the centre of the township, its existence in this position is therefore a probable source of danger and its removal is very desirable.

Ploor Margot. It may be mentioned as a matter of interest, but, so far as we know, of no pathogenic importance that Dr. Pooley, when investigating the fly area in North Unyoro discovered the existence of the Conzo Floor Margot at Mangas.

Blackwater Fever - there were x II admissions and I death, showing that natives are not immune to:
this disease as was at one time supposed.

Tubercle of Ling. 25 cases were admitted, and there were 15 deaths. This disease is less dommon among the natives than would be expected considering the bad hygenic conditions under which the majority live and the bad and often insufficient food.

Enterio Fever. 2 cases are reported both fatal Both eccurred in the Police at Mombass. Laprosy.

There were 10 admissions and 1 death.

Isolated cases occur in both Pre-esterates but the disease is resorted as being very prevalent in the eastern portion of the Nile Province in Ogmal's country and among the Pajule. Ogmal has been advised to form segregation villages for his lepers and has promissed to do so. The Pajule country can be entered only with a strong escert and for the present may be considered outside thepale of medical advice.

Plamie.

One case occurred and died on board the Lake Steamer "Sybil". The patient was a Swahili, a native of Sombasa, named Hasini - age about 27 and had been employed for about a year as a Sailor on board the Sybil, during which time he had lived with the other Sailors in the forests. The ship was 1d days in Kisumu and left for Entebberas on the 13 May. To reported sick to Chief Officer on the 14th and died between Entebbe and Bukoba on the 17th. The body was taken ashere at Sukoba on the same day and an Autopsy carried out by Dr Feldman who declared the case one of true Subonic Plague.

The usual precautions of disinfection and quarantine were carried out and no further case occurred.

The origin of infection was not discovered.

Some months prior to the occurrence of this case there had been epidemics of Plagua at

Bukoba and Wrigati, lake ports in German territory.

Plague, salled by the natives "Kampuli", has existed in Uganda for many years, a fatal by-idemic having occurred in the capital during.

Missa's reigh, and gradually spread south and east. It has been entering in Buddy for committee.

The first reliable report of its existence was furnished by the Serman Doctor Lumpitse in 1897 in the vicinit, of Bukoba, his observations being confirmed by Professor Koch.

Feldman separated an epidemic in Bukeba in 1902.

Hodges in his Report (see appendix No.11) states that he found a village, recently deserted and burned and on enquiring the cause domes to the conclusion that it was on account of an epidemic of Plague which had carried off 40 % of the inhabitants. The disease therefore appears to be widely spread in Endomic form throughout Uranoa, or the Nile, and in German East Africa, and the origin of infection in the case on board the "Sybil" was most probably in food brought from Tukoba or Shirati.

Relapsing Power. 35 cases occurred with 2 deaths, all in Uranda. No case of this disease has been reported from Rast frica, althouit is quite possible cases do occur in that Protectorade. The disease was first observed and reported from Entende by Dr. Todges in 1905. here is no doubt it had existed for many years previous to that date, but had been returned as malaria owing to the Symptoms being somewhat similar and the parasite not unlike the free flagellum of the maiaria plasmodium.

It is due to the bits, of a tick which has been identified as the Ognithodorus Savingnyi Accomposed to be the same as that which causes. The disease on the Sambeai, but there is a slight difference in the clinical features of the disease as met with in the two localities. A series of cases reported by Capt: Price, I. Sa., occurred in a detachment of the Indian contingent.

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escent duty between Kumpala and freima. All the 55 cases were fairly typical and the following is a

Sapey Mand Singh - aged 23 years - 4 years merric had been to Heims on escort duty and alept in the usual rest camps. He was seized with fever en the 2nd October with nausea and violent wemiting, temperature a.m.104, p.m. 100.4. Rejects everything taken by the mouth.

Spirilla found in blood.

3rd Nausea and vomiting continued, temperature a.m.101.8, p.m. 100. Fnd on nutrient enemmata.
4th. Nausea and vomiting stepped. Temperature a.m. 99.2, p.m. 98.

5th. Complained of some nausea , temperature a.m. 97.6, p.m. 98, very weak.

6th. Better, temperature normal.

7th. Better temperature normal, discharged.

10th. Pendmitted with symptoms same as on the 2nd temperature 105.

11th. Nausea and vemiting continued_Spirilla.
found.

12th. Nausea and vomiting not so severe. Temperature 102.6, a.m., 101.6. p.m.

13th. Better. Temperature a.m. 98.6, p.m. 99.2.

14th. Temperature a.m. 97. p.m. 97.2.

15th. Temperature normal.

16th. Temperature normal.

17th. Discharged.

19th. Readmitted, violent vemiting, temperature p.m.

20th. Vemiting continued, temperature a.m. 103.6.

21st. Nausea & vomiting lesst severe , temperature a.m. 190.8. p.m. 192.8.

22nd. Temperature a.m. 97 . p.m. 97.2. no vemiting but very weak.

Zörd te Cenvalescent. 30th

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Nov: Ist. Discharged.

Diseases of the Digestive System all ys figure largely smong the ailments of natives the appear to suffer alternately from Constipation Diarrhees, and Dyspepsia, due chiefly to the quality of their food and also to the habit they have of gonging to repletion whenever they have the sportunity.

Hepatitis is not uncommon.

Stomatitis of a severe form with ulceration of the gums and lips is very common and is no doubt due to had food and hygienic surroundings.

Mar Diseases - from absence of ordinary cleanliness inflammation of the External Measus is very prevelant and inflammatory conditions of the Tympanic membrane and Middle ear are not uncommon.

Eye Diseases - chiefly conjunctivitie due to filth.

Jenerative System - the most common is Orchitis,

swellen testicles are very commonly met with,
but the cause is not very apparent.

Splenitis. Enlarged spleen/as would be expected where so much malaria exists, are not uncommon.

Respiratory Diseases - Brenchitis of a subscute nature is domeon especially at the end of the rainy season. It is due to the absence of protection against chills in the paucity of clothing wern by the native.

Preumonia is another disease very frequently met with due to the same cause.

Skin Diseases are , as would be expected from filthy habits of the natives, common.

Scabies is the commensatiand under this heading the

have been included as it is extremely doubtful if Craw Graw, as described by Oliveil and others on the West Coast, exists in this part of Africa.

Injuries. The most frequently seconded are contusions 56

and wounds Most were of a trivial nature,

- Filaria Perstans affect a very large proportion of the population throughout Uganda and is very much less commonly met with in East Africa. Few cases come under treatment and the affection is usually determined when the patients are under treatment for other diseases.
- Filaria Medinensis is very prevalent among the tribes in the Nile Prevince and among the Troops and Police stationed on the Nile.
- Bilharzia Haematobia appears to be commoner in Rust Africa than in Ugunda.
- Diseases of Women only 70 cases were admitted. As yet the native women have not learned to appropriate the benefits of European treatment.
- Deaths. The total number recorded among Proops, Pelice and Natives in both Protectorates was 463, but as already stated these statistics do not pretend to give an accurate account of the health or death rate of the general community, and the number of deaths have given are only those who died in the Hospital or were brought to the notice of the Medical Department.

Except in the neighbourhood of administrative stations the native seldom socks medical treatment but relies on his own medicine man, and when he dies it is the custom, except in a few tribes, to throw him into the jungle to be devoured by Leopards and Hyonas. Some tribes are ashamed of their sick and will on the approach of strangers hide them away in the jungle.

All deaths coming under the notice of the

Compulsary notification of deaths is desirable, so that the outhreak of epidemis diseases may be at once detected.

Vaccinations.

Table 17. shows the number vaccinated during the year.

Source of Lymph.	Humber waseinsted.	Number Sul.	Number fulled.	Result unknown.
ulf on Ivery points (imported)	1,496	914	569	16
alf locally prepared.	2 57	225	32	
As to Arm	5,393	4,801	471	121
	7,148	5,940	1,072	186

The number of failures from vaccine on Ivery points is noticeable, yet lymph imported on Ivery points has been found more extinfactory than in any other form.

It is hoped that during next year a Vaccine Institution unser the Veterinary Department will be established in Mairchi and that a greater number of yearstantiess will be carried out and better results obtained.

Some difficulty is experienced in getting the natives to come in for vaccination, not that they object to the eparation as a rule, their non appearance is franching due to the in-born negro apathy. Teorinating tours have been success.

Total carried over.

The Tailowing Table No. I, shows the operations performed. The list does not include such minor operations as opening abscess, extraction of teeth ho.

Organs of Locommetion.	Mumber	Recentred	Died.
Appertation of arm	1	. 1	
Foresrm	2	2	• ;
Hend	1 -	1	
Fingers	1	1	. "
Thumb	1	1	
lag.	. 3	. 2	1
Die.	1	•9.	1
Ligature of Radial artery.	1	1	
Removal of Lipson	1	y 1	4
Tupping Frontaint	1	1	
Suturing Tenders	1 5	1	
Tenotomy	1	1	•
Mye operations.			
Cataract	7	7 1	6.
Tridectomy	1	1	
Trichiasis	۵	3	
Pteryptim .	3	3	
Digostive System.			
Pistula dn ano	1	1	
Bernie (radical cure)	1	1	
Laparotomy for appendi	1	1	
Laparotony for wound	1		1
Liver absessminushing	100	3 Post	Part and a
Permentonis abdominalia	1, 4		Trans

	Brought formed	Number Res	overed Die	563
Cherto	- Urinary System.		· · · · · · · · · · · · · · · · · · ·	July K
	Amputation of Peni	• 1	1 2 3	
2 .	Circumsision Curething Union Hydrodele	27	7	1 6,2
	Removal of Servium (Elephantiasis)	2	2	
Gener	ral operations.			
	Removal of giands	1	à.	•
	• Cyst	1	1	
	Negrosed, Rome	2	2	•
	* Tomoura	3	3	• • •
	• Upper jaw (Sareema)	1	1	. 1
	Sofaping caries be	ne l	1	
	Total	84	61	3

Three of the operations proved fatal, one amputation of leg for gamerene following some pound dislocation of the ankle, one amputation of tigh also for gamerene and one mass of potentiating wound of the abdomen in which the intestine was Satured but Paritonitia set up and proved fatal.

Hospitals and Stations.

Sunitary condition and general description.

The sanitary condition of mest of the stations has been gradually improving, but much remains still to be done before they can attain to medern ideas of canitation.

Roman the principal for pert for these Protectorates, has to

 A European Hospital containing 8 wards and capable of accessmedating 10 patients. This is sufficient for the present meets of the district. 3. Prisen Hespital - one ward for male prisoner only. Female prisoners are treated in their dells. A separate ward for female prisoners is required.

4. An out door Dispensary where subordinate officials and the general Public attend.

Nos. 1,2, and 3 are in charge of Dr.J.T.T.C.

Johnson No.4 of Dr. C.A.Wiczins.

The sanitary condition of Mombasa is fer from satisfactory. The Health Officer in his report states that compared with Master Towns in general the sanitary condition of Mombasa is not bed, but this does not imply that it is by any means good or great improvements are not necessary in many ways. We recommends as of first importance a good water supply, as much of the fit success of Mombasa depends largely on a good supply of water being at all-times procurable at present it is not pessible to supply ships with water, consequently, although Mombasa has an excellent harbour and there is even a better one at Kilindini, a course of trade and revenue is lost-

The mater used by the natives is entirely from wells sunk in the coral of which the island is whelly formed and contains a large per centage of "ods and time salts, which are chiefly responsible for the large number of lower complains from which the natives suffer at pertain seasons of the year, particularly the drysmann.

of the huraren himmaless is roof collection and storage in semested tanks, and show the tenks Kismaya - is the capital of the Province of Jubaland; 65 built on a low Sandy flat and is scolar and more free from malaria than the rest of the Sount Towns.

and Pelice. It has the usual wells common to the Ceant, and its Sanitary condition although not a good is better than the places already mentioned. Gobwen and Youte are both military stations on the Juba, at both there is a small Hospital for Treeps and their followers, each in charge of a Hospital Assistant. The water supply is derived from the Juba and they are both fairly healthy.

Voi - here there is a Dispensary in charge of an Indian compounder for the benefit of Builway Employees. With the exception of a pertain amount of malaria it is fairly healthy.

Makindu - there is a Hospital and Dispensary for Bailway employees in charge of an Assistant Surgeon. The mater supply is free reaf collection. The conservancy here and at Voi is managed by the Bailway. The station is healthy.

Nairobi - This is the head quarters of the Railway and is midway between Ucmbass and Lake Vistoria.

There is a European Hospital and a small Inilitary Hospital both in charge of Dr Budger, also a Mative Mospital in charge of Dr Budger, and a Dispensery in themsilvay yard in charge of an Indian commonder.

The Burchean Hospital was constructed some yours ago by the Hallway and is unsuitable in every detail for the purposes of a Hospital. I new Burthean Pospital is much needed.

The Bilitary Hospital is suitable for the present needs of the atation.

The Native Hospital has during the year had its abdenmedation increased to 50 beds by 565 the addition of an extra ward, and 3 small wards have been provided for the treatment of subordinates. The settle was in connection with it are inadeaquate but prevision has been made for additional in next year's estimates.

The European residences are situated on one of the spurs of the Kikuyu hills, and at the fact of this on an almost level plain is the township. The site of the township is bad, it has next to no natural drainage and in the rains because a swamp.

During the year there has been a very considerable increase in the number of inhabitants and the Genservancy Department has experienced some difficulty in coping with it.

The unicipal ledseal Officer in his report states the removal of nightseil is carried out with some degree of anocess by the Conservancy. but its disposal lowes much to be desired During 1904, 1,095 tons of nighteell have been conveyed by carts to the transies situated within i a mile of the Municipal boundary where it is thrown into the trenches and covered with earth. Owing to the matures of the soil this is not absorbed and the surplus infects the rivers in the vicinity. It is not sufficiently oridised by the · sum consequently many complains have been made of the Storech from the dumping grounds, which are too aless to the townshipe. I am informed that to run a tank train to come place in connestion with the milway (say 6 miles from here) necessitates the maintenance of a staff at the siding on the dumping ground, costing Reico to MaDOO, per menuem. This expense cannot be metaby

present conservancy staff be increased without

The number of men engaged in conservancy 5; work is 75, and the number of nighteell buckets emptided daily 742. Tellve carts are employed and the reads whin the Township area alone traversed by the carts are 20; miles daily.

Fifteen refuse carts are daily employed and the amount of material removed by them in 1904 was 3,295 tens. Owing to the climate and other causes this material cannot be properly destroyed by fire. Vefuse asstructors are therefore an urgent necessity.

Drainage. Fig. has been done towards the removal of succession was a fine of the not satisfactory as a windo. There is no system of deep drainage in any part of the Township, and the existing means of disposing of the soiled "manhing mater" from the Indian lawrings is most unsatisfactory, especially in the Indian Bassar, where it constitutes a manyor to the public health. A considerable amount of this material at present finds its way into open drains where it stagnates in the dry season and during the rains is deposited all round to buildings.

Public Health , No practical or useful system of registering Births and Deaths within the Municipal area exists.

Vanioupal authorities have no means of ascertaining the numbers or causes of deaths among the native population.

Powers have been applied for under the Murricipal regulations to have rule / drawn up making it compulsary for all deaths eccurring within the Muricipal area to be reported to the Medical Officer of health, also to make it compulsary that all infectious diseases he reported

Deaths. More the native population 50 deaths only

Bronchitis)	Jaundice	2
Preumonia	18	Peritenitie	1
Pleurisy	8	Puerperal Fe	ver 1
Dysontery	2	Poison	1
Diarrhosa	1	Mongitie	1
Homplesia	2	Assites	1
Tuberele of	1 .	Unknown	1

Very great in revenents have been effected in Nainchi during the past year especially in its drainage, but as pointed out by fir Radford a system of deep drainage is urgently required. Its most pressing need, from a sanitary point of view is the erection of a Rafuse destructor - This has been recommended from time to time and it is to be hoped that it will be supplied in the near future.

Fort Wall - the headquarters of the Administrative District of Henyle and with the exception of a little smiaria to healthy.

under the charge of an Indian assistant.

There is a small Dispensary for Troops and Police under the charge of Dr.E. B. Admed. Kitui - A native Dispensary was opened in December

There are a good many cases of malaris and of bevel complaints, the latter due to the bad quality of the water.

During the rainy season mater is plentiful, but in dry it is source and can only be obtained

from mater heles. It is them, guite unfit for

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Maivasha - is 6,230 feet above scalevel, coel and healthy. At certain scasons there is a strong wind which certics a good deal of fine dust and giving rise to Bromshial irritation.

There is a native Dispensary with 4 emergency beds under the charge of Dr.S.R.Walker.

The unter supply is taken from Take Maivasha and is fair.

Nakuru - is at a mlightly lower elevation than Naivasha. Formerly there was a good deal of malaria, but with better drainage this disease has almost disappeared.

There is a native Hospital originally built by the Railany and under charge of an Assistant Spreads.

The similary condition is fair. The native Basear is difficult to keep alean and improvement might be effected in the housing of some of the Railway employees.

The mater supply is good and is conducted in pipes from a mountain stream.

Eldom Rayine and Barings - are two administrative stations in Naivasha Province at both of which a are native Dispensaries in charge of Hospital Assistants. Both are healthy.

At the former a new house is greatly needed for the Hospital Assistant.

Sobs - A Native Dispensary in theres of an Indian compounder was opened in the begining of the year The station is cool and healthy.

Kerishe and Nandi are both Military and administrative stations with Dispensaries in charge of Indiana assistants. During the rains the simule is dold and damp and Phousation and these complaints are Risum: - is a place of sensiderable importance, being the termination of the Uganda Railway and the 570 headquarters of the Steamers on the Lake Victoria. A considerable amount of traffic passes through it.

The site was determined by the Ugarda ailaway having its terminus here, but can in no way be agid to be a happy selection. It is at the morth east corner of Kavirondo gulf, a sivetch of water some 40 miles long by 20 broad with an average depth of about 12 feet. The gulf opens into the Lake by two comparatively marrow channels one on either side of the Island of Ranings and through these all sorts of floating vegetation be drifte and is carried by the sing till it comes to rest on the foreshope of the Tanadip.

The gulf is fringed to a depth 3 to 30 yards with papyrus and reeds.

The residences of European Officials are situated on the ridge of low hill class to the Lake. There are more officials than houses except in the case of Railway employees. More accompantion is urgently needed.

To the south of the European quarters is an extensive papyrus samme.

On the lower part of the name hill in the mative Basaar consisting of one main street and two erose streets. It has good betweet drainage, but the plots 80 ft. K 30 ft. are too small and as a consequence the dwelling and cooking portions of the buildings are too grapped.

Between the Bassar and the lake are the Landin for Railway coolies - New Landie were erected during the year; they are an improvement on the old, but instead of having earth flower coment ought to have been used so that they

Stricter supervision is required so as to control the member of inhabitants and ensure greater cleanliness.

ervancy . The bucket system is in tise and the night actl is removed by carts and burried.

ter . This is taken from the lake and pumped up to a service tank on the hill from which it is conducted to stand pipes. Owing to the shallowness of of the gulf the water is always coloured centains a certain amount of suspended matter an smalls and tastes markish. A school for roof collection is about to be introduced.

Some improvement in the general samitary condition has been effected during the year; better roads have been made, and a large amount of bush cleared away, but owing to the nature of the climate this rapidly grows up again.

The climate is not good; there is a considerable rainfull with frequent and severe thunder storms and the atmosphere is depressing.

Maria Fever and Dysentery prevail, and occasional cases of Blackwater Pever.

A scheme for constructing a sea well and obliterating a persion of the papyrus opposite the European quarters and terminip has been approved and when carried into offeet aucht to lessen the number of cases of malaris, 411 old borrow pits in connection with the Railway sight to be filled in; at present they only form breeding places for measuites.

There is a Mative Hospital under charge of Br Haran assisted by un Assistant Surgeon. A M Hospital was built and opened in December.

Munica . This is an Administrative Station in north Kavirondo and has a Mative Dispensary in charge of an Indian Compounder.

The manitary condition has been recently improved, but at one time it was so had that the Swahili porters named it the "dirt comp". 572

It is not a healthy place, there is a considerable amount of malaria and eccasional cases of Blackmater Fever, and Dysentery. A change of site is highly desirable.

Rurungs, in south Kavirondo, is situated on a small promintery and has the lake on 3 sides of it with a small swamp on either side. Malaria is the prevailing disease.

There is a Mative Dispensary in charge of an Indian Hospital Assistants

STATIONS IN UGANDA.

Enterbe - is the administrative headquarters of the Countries Protectorate, situated on the northern side of Lake Victoria and built on an elevation close to the lake.

During the year considerable improvements have been carried out. The officials have been provided with well built brick houses, with corrugated iron reefs & meagaite preef deers and windows in place of the cld termine hardcuring grass recfed hands. The forest round the lake shore has been thined and much of the undergrowth cleared away. This is now being extended to the Butanical Cardens, previously motorious as the home of the Tautée fly.

A piece of lowlying ground, at the back of the European quarters which, during the rains becomes practically a smarp, requires draining or filling up.

Connervancy. In the European quarters the my month system is in use and is satisfactory, compute exist in some of the native quarters; they should Water Supply - this is from the Take, and if taken at a sufficient distance from the shore, is good.

During the year a windmith was erected in the picked to pump water for the use of the inhabitants. It pumps the water into iron tanks a few yards away. Dr. Woffat remarks with regard to it, "I have not yet discovered what uneful purpose is attained by this mant procedure and in my apinion this attempt to solve the water supply in Enterbe has only resulted in a futile waste of money." That is really wanted is a roper jumping station with a service tank near the church or Police station and stand pipes arected at convenient places throughout the texnship.

Pr.Noffat remarks that the manitary condition is , speaking generally, fairly good but more funds are munical to render a sare thorough system of compercincy and attrest cleaning pessible.

The climate of intohio is relaxing, but on the whole healthy.

The Medical arrangements consist of a European Hospital, opened in March, in charge of Dr. Meffat, C.F.C., a Dispensary and Mative Pospital of one ward centaining 24 beds, under hr Pagshawe. Owing to the growing needs of the place more native accommodation is necessary; and ther ward for males and a ward for females are required.

Kampala - the native empital of the Kingdom of Symman is some distance inland. It is a very southerod place and very hilly, every separate political and religious faction having a hill to itself.

Like the rest of Uganda It is an alternation of

The medical arrangements, under the charge of Capt: R.H.Price, I.V.S., consist of a small Hospital for the Troops of the Indian Lontingent and a native Dispensary, The latter is a sorry affair compared with the Church Missionary Society's Hospital 120 beds, on Namirembe Hill. Prevision has been made for a new Hospital & Dispensary to be built next year.

- Conservancy The dry earth system is in use on the administration hill while in the native quarters the compit system prevails.
- Water- This is derived from a swampy river flowing through the centre of the place the quality is indifferent.
- Jinja in Usege is situated on take Victoria close to where the Nile leaves it Formerly mala is was very prevalent, new it is less so, due no doubt to the extensive clearing away of bush round the station and of papy, rus and reeds on the Lake shere.

There is a native Heapitel, els and dilapidated, and Dispensary in charge of Dr. Noble.

A new Hospital has been provided for the next year's estimates.

Hoims - is the capital of the kingdom of Unyore and is situated in the hills in the centre of that country.

It is fairly healthy.

Conservancy - The dry earth system is used by the Europeans - and trench latrines by the

matives troops.
Water - This is from springs which unite to form
a small rivulet. It is good but in the centre
of cultivation a light, to any or the centre.

There is a Bispensary and so called Hospital in charge of Dr. U.H.Pooley. The Hespital consists of round mative thatched huts, with neither light nor ventilation and quite unsuited for the reception of sick. A new Hospital is provided for in ment year's estimator.

Province is eituated in a triengle parmed by the Mile and the river Ume. The site is a bad one. Papyrus and reeds frings the Mile and where the Ume flow into it there is an extensive summy, consequently syriads of mesquites swarm in the station and pray on the unfortunate inhabitants night and day.

The Surepous quarters are of mattle & doub, small, badly lighted and ventilated, and very in-adequate.

The country in the vicinity of the station is very sparsely populated, consequently food is scarce and to augment this a grove of Bananas has been planted between the European houses and the Police lines. It forms an excellent resting place for mosquitos and meterially assists in aproading malaria of the severe type for which this station is noted.

Conservancy . The conspit system is in the.

Water - this is taken chiefly from the Nilejales from the Une. That from the Nile is taken from small pools among the resds and is stagment; a platform is required as that natur can be drawn where there is a current. The unter from the Une is probably better than from the Nile, but the few inhabitants on its banks are given to bathing in it and otherwise. Sirtying it even in matte of the danger from procediles. The removal of this station to a high plateau some 60 miles inland in the centre of the Acheli, a large and wealthy pastoral and agricultural tribe, is under consideration Considering that Madelai is extremely unhealthy and its chief use at present in as a transport forwarding station, there does not appear to be any good reason why the administrative station should not be moved inland where it would be closer touch with the natives in the district.

The medical arrangements consist of a Native Dispensary and Hospital huts under the charge of Dr. G.G.Strathmirn. They are all constructed of elephant grass and thatched and are of a very temporary nature, each thunderstorm generally carrying away the Dispensary or some of the Hospital huts.

A New Hospital to has been provided for in next year's estimates, and it is to be hoped this will be erected with a new station in the interior of the district.

Nimile - the central of the 5 Mile station is like Madelai, situated on a triangle between the Nile and a river flowing into it, the Myssus. The administrative station, Military and Police lines are on rising ground shich is very rocky. At the junction of the Nyama and the Nile is a darge swamp and the to the East of the former a level plain which in the rains becomes a swamp.

In the dry season, mosquitees are comparatively few, but in the rainy they swarm bred in the swamps above mentioned and in this hollows among the rooks. Malaria is prevalent in the rains, and is mostly of the remittent type, but less severe than that found at Wadelai. Bowel complaints are very common among the nutives, especially at the begining he of the rains. The coverest of those are Dysenterward. Delitis and have been asgribed to the food guinescorn (motems) and its method of preparation. He crain is ground between 2 stones and the grit from the latter has been blamed. This say-be a factor in their causation but other causage are probably contaminated water and Malaria.

Conservancy. The desapit system is used by Europeans, trench latrines by the troops, and the latter have been introduced for the Police, prior to the introduction of latrines for the Police, the surrounding jungle was used and is still to a certain extent, probably not as such by the Police as by their numerous followers, it sight to be stopped.

Water - this is derived chiefly from the Nile also from the Nyama, and in both cases necessary precautions are beiling and filtering.

During the year considerable imprevement has been effected in the housing of the Europeans and in the construction of roads in the station.

In the vicinity of the administrative quarters the bush should be cleared away, but it must be admitted that to do this effectively is by no seems an easy tack owing to its extent and the recky nature of the ground.

There are 2 porters' camps many the Nyama: both are dirty and should be moved to her sites.

Medical catablishment - consists of a Dispensary and Respital; the latter of the usual grass buts, but a new Mospital denstructed of stone and clay is in process of being built also a new Dispensary. The Medical arrangements are in charge of Dr.R. Stoney. to estimated on a mand bank on the brink of the 57 Hile. The environ bank of the Hile is stony and gradually slopes bank to end in ground thich four. In the rainy season because a march.

the houses of both the Civil and Military are built of burnet brise beld together with clay are precised with acception a word facts and windows, and are antignortory accept that wife agts, being able to burnet through the above are very destructive to all wood wark. Count Clours would shrinks this.

The sanitary condition of the station is us the whole good. Suring the year a conditional extent of ground in the immediate violaty of it the station, previously covered with think hash has been brought under subtination in small plots by the Troops one Pelice. Since this has been done must a decrease in the number of passe quites has been actionable.

Conservancy - The Marapanes use the bushit system - 2 the Broops and Police trench Latrices.

Water - this is entirely derived from the Mile and is fairly clear except to flood time. The Marytian " Sohr " is largely used as a filter and appears to be satisfactory if kept covered throughouters thereughly closs.

The natives in the vicinity (Mari) live exclusively on servals and do not keep live steel, hence there is great difficulty at this enables in obtaining fresh mat.

The health of the station is good - there is very little malaria, but a considerable amount of dynamicry among the natives.

The medicul establishment sensists of a Native Dispensary in sharps of Dr. Giffelber. Ankele and is built on a rounded hill with good natural drainage and absence of swamp very time to the station.

There are 2 houses built of brick with time roofs, both occupied by Military Officers; the other house are of eatile and doub and thatched, obviously only temporary structures which should be replaced as soon as possible by the mere sanitary brick building.

The Troops, Police, to are housed in hute, a those for the former having been removed during the year on a new and better site.

The Passar is in the centre of the station and too news the European quarters in all the the Bassars in both retectorates the plots are too limited in area and there is more or lessower crowding, while restricted ground area limits the adoption of necessary sanitary measures.

Conservancy - The bucket system is in use in the Muropean quarters, in the others git latrings.

Water - This is derived entirely from the Humani which flows in a very tertueus course through numerous marshes and along the foot of the hill on which the station is built. It is always of a reneumed brown celour due to vagetable matter in suspension derived from the papyrus summe through which it flows. Soiling and filtering render it fairly palatable but only renove a portion of its colour. In the dry season it is muckly and an abanding forms a thick deposit. Fithin two miles of the matter the river receive the surface drainage of many native plate of substitution, of Inlends (the King's Hill which is demany populated), and, about 2 of a mile. From there it is drawn for the station, of

The Ruwesi is the only available source water supply - Wells have been tried but without success.

Although of originally indifferent quality and liable to pullution from the sources above, mentioned, diseases such as Dysentery & Distrinces traceable to the quality of the water, are not very prevalent, but those that do occur as usually of a severe type.

Boiling and filtering are necessary precautions, and to avoid so many sources of pollution the advisability of runhing a small canal from a point East of the King's hill to opposite the station is worth considering. The current is stated to be 4 to 5 miles an hour and a canal for the supply of the station seems to be practicable.

The health of the station is good; the prevalling diseases among the natives are chiefly these due to want of cleanliness.

The medical establishment consists of a Dispressry and Hospital huts, in charge of Dr. L.D.Lowsley.

Manon

- wu

Pru