

gi, Greát Titchfield Strieet, Oxford Street, London, W. i.


## Official Orgar in Great Bfitain

Conivention of Associations of Konya,
 Ausochated Produgirs of East Lfrioa, Cofrec Planters Union of Konya and Fast Afrioa.

## RESTRICT PREFERENCE TO THE DESERVING.

THE suggestion was first made in our pages a fortright go that in return for the preference given to Empiregrown fibres by British Government Departments when placing orders for cordage and similar supplies, members of the East African Section of the London fhamber of Commerce engaged in the sisal-producing industry in Tanganyika Territory should, as a quid pro quio, make fo a definite rule to purchase British machinery whenever possible, and to employ' British personnel in every instance, $T o$ bind individuals to the voluntary fulfilment of such a patriotic and equitable course of conduct is impossible, for in the absence of sanctions some producers would assuredly ignore the reasonable standards set and kept by colleagues with a keener sense of their obligations:

That being evident, we hope that the British Government Departments concerned will be empowered to go a little farther in the exercise of the valuable voluntary preference which they have promised, by announcing that it will apply only in the case of East African estates with predominantly British capital (or, in the case of companies, to those registered in Great Britain and therefore paying British income tax), purchasing British machinery as far as possible, and employing British personnel. Our proposition, in other words, is that quasiBritish and pseudo-patriotic estates and companies should be wevcluded from the benefit of the British Government preference, in which they have in equity no right to share. Those responsible for the policy of such semi-alien properties have chosen what they considered the better part in allying themselves with Continental france, in making their main. purchases of machinery abroad in engaging considerable numbers of foreigners, and in exhibit-

ing a marked preference for the use of non-British shipping. They would therefore have no possible cause for complaint if the British Government were definitely to instruct the official purchasing departments to restrict the promised voluntary preference to sisal produced on all-British estates;

For the smooth worlaigg of such a scheme it might bo de known that the Ampernemend other Departments contemplated the establishment of a register of British sisal estate marks, and that to that register would be admitted only plantations able to show a certain minimum standard of com mercial patriotism, Government purchases being made exclusively from estates on that register. Achievement would not be nearly as complicated as it sounds. Similar, and much more difficult, action has already been taken in the Empire for the precisef parallel purpose of ensuring that preferential tariff treatment shall be conifined to those who have shown themselves worthy of it: if it can be done in such intricate matters as. say, the assessment of the percentage of British labour and material in a piece of manufactured steel entering Australia; it can be done with ease in the case of sisal.

There could be no complaint that such action would infringe the principle of the Congo Basin treaties and the Tanganyika Mandate, whereby nonBritish nationals arid interests enjoy in East Africa identical privileges with British citizens and enterpríses. That equality exists and would be maintained in East Africa; the preference in question would operate only outside East Africa. The Sisal Producers' and Importers' Sub-Section of the Lon* don Chamber of Commerce has, raised the question. Its chairman and members ought therefore to be willing to urge its extension to the logical con: clusion here outlined, and we suggest hat the proposal is at least worthy of public debate.

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## SIR DANIEL HALL ON KENYA.

Sir Daniel Hall, who during his brief visit to ${ }^{\circ}$ East Africa was persuaded by the Kenya Government to act as Chairman of its Agricultural Com mission, has contributed to The Nineteenth Century a most interesting article entitled "The Native Question in Kenya." The following passages will particularly interest East Africans:-
"The, goat destroyed the fertility of Greece and other Mediterranean regions, denuding the hillsides and washing the soil into malatious swamps in the valley; this process is rapidly being repeated in East Africa. Some of the Wakamba chiefs are conscious of the ruin that is overtaiking their country. They can recall districts where the grazing was-good in their youth, but have now becomee desert; they agree as to the deterioration of the areas that are still carrying cultivation and stock. But they say that their people generally fail to recognise the inevitable end, and are by no means disposed to change their outlook. They will only reduce their stock under compulsion from the Government. s.
"The droughts of the last two years have" accelerated the destruetion and hitithe, wakamba hard. So far they seen to have mpu purchased by their hoarded moneg tobt to Indian orpem are described as irretrievably:in debt.to in spite of the law that voids a debt of more than 200s, unless it has been registered before a District Officer The Wakamba solution for their troubles is more laut - Whey had previously been given one unoccupied area and are now overflowing into other reserves. But whatèver land were available it would onty afford a temporary relief; givèn the opportunity, in time the Wakamba would fill the whole of Africa with their stock. Many people have looked to Africa ag the thential source of meat for the world, The cattle are indeed there, even though Africa is the hathe of every known and unknown cattle. disease, but they are unavailable for food purposes, and they are tending to destroy the land. on which they liver,
"The young Kikuyu in theif zeal for 'nationalism. are reviving barbarous customs like female circuncision, frowned on alike by missions and the Administration. Récently they broke up the Communion service in a certain church, some members of which had been excluded because of theit participation in a particularly cruel case of clitovidectomy that had come into the courts. The Kikuyu are experimenting a little in new religions, blends of Christianity and Muhammadism, but none of their sects has reached the importance... of the Amalekites in Uganda.
${ }^{6}$ What is needed is the matint cultivation of to operative societies among the Natives, which will ensure to them the current market price, less the necessary costs of grading, bulking, and transport. The co-operatiye organisation becomes at once an educational agency, because its interest is to inform its members what they ought to grow in order to secure a good sale. Further, the-Native co-operatives can then associate thetfismes with the white co:operatives in order to obviate competition and ensure common marketing for export. Atready one of the most successfu? of the Kenya cooperative societies, the Lumbwa Creamery, takes in Native members on the same terms as white.
If the Natives can thus be led to develop economically we may see an end to the estrangement that threatens to develop between them and the white settlers. Un-
doubtedly there is a nocal and possible dangerous element among the Kikuyu, who are a politically-minded folk with an instinct for exploiting grievances. The young malcontents' are well coached by the revolutionary section among the Indians, and have even managed to make touch with the Russian wellhead of discontent. Numerically, they are unimportant, and they are just as much a nuisance to their own chiefs as to the whites, for their quarrel is against all a wionty
"But they are accorded an undeserved prominence by a certain section at Home, whose passion for ${ }^{*}$ justice expresses itself in a profound distrust of their own people. In England, too, we have to reckon with the incurable romantics who want to see a noble savage preserved from the contagion of civilisation. Civilisation has, indeed, its ugly side, but it is idle to deny our birthright; man even primitive man will move along the lines of western development, and it is no more possible to keep the tribes unspotted from the world than to maintain Kenya as a game reserve. Meantime, these friends of the Native at Home are able to exert a paralysing influence upon government: By newspaper articles, by questions in the House, they can make the Colonial Office nervous, and need legislation is hung up until the admiñistrator on the wspe, who has given years of anxious thought to the problên, betomes sick at heart,"
Sir Daniel concludes with a reminder that Kelya's administrators and settlers' are Engwhmen known for a spirit of fair play, and that thie breed does not change by transplantation frepp Europe to Africa.

## QUEER "NEWS" FROM KENYA.

Can anyone tell us what The Catholic News means by publishing the following? We give the note exactly as it appeared :--

16 The other day a small paragraph appeared in the Press about the firing by British troops upon a crowd of Native women in this unhappy Colony (Kenya), now in British 'keeping, It was said that a number were shot ded; more died, of wounds; more still were forced into ax river and sowned. The victims, dead and wounded, numbered, some hundreds !
"But where is the protest of The Daily Herald? Or of the Press genefally? N.ot a word $!$ God help the poor: exploited Natives of Africa, of Australia, of India, and of the lands where the white man has táken up 'his burden.' That 'burden' simply means that he tries to carry off all he can carry, from those to whom he has gone to bring them 'the blessings of civilisation:
"It is a horrible story, this massacre of women in Kenya, by . Sitish troops. Where is Winstond, who was so furious with German 'baby killers'? These people were at war. They were bombarding camps, ammu nition works, and-so on - The Native women of Kenya foully massacred were not shot down by mistake but deliberately. And the Labour. Government and the Press and the nation has no word to say in condemnation. What hypocrites there are onn high and in low places in this land!"

And what a gullible, reckless jotirnal The Catholic. Neuis must be!. The whole note is a farrage of nontense, devoid of the slightest foundation. Will the paper m question deign to say on what it bases such an unworthy tirade?

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"East Africa's" Information Bured exists for the free service of subscribers: and advertisers desir ing the Editor's aid on any mattex One of its principal objects is to contribute to the development at British trade throughout Eust and Genlral Affica, and any information which readers are willing to give for that purpose wilh be cordially welcomed.
Manufacturers wishing to appoint agents, and agents seeking tuyther representations, are invited to communicate zeith the Editor. No charge is made for the servicefrendered by this Journal in such matters.

The month of Ramadhan begins, thts year on January 30 .
 Lourenco Maxqu tarily liquidation.

Mr. E. M. Murphy is at present topging East Ariea as a special teppegentative of the Goodyear Tyre Company of America:

Messrs. A. H. Wardle and Co., the well-known. East African chemists, are to open a branch in Dar es Sakam within the next month or twô:

A final dividend of sh $2: 27$ has beer doctared in the matter of Shariff Fazal and Duladi Pragji, trading as the Colonial General Stores, Narrobi.

The kenya Government intends to maintain aerodromes, and landing grounds at, Kisumu, Eondiani, Nakuru, Naivasha, Nairobi, Mákinder Voi, and Mombasa?

The Kenya Earmers Association as sincerely to be congratulated on having handled the maize of its members at a cost of less than $2 \%$ and wheat at less than $2.25 \%$.

A right of occupancy of a plot of land of some 2,000 acres on the Buhingo Peninsula in Juchiri Bay, west of Mwanza, was recently offered for sale by public auction

Kodak (East Africa) Itd. which company incorporates Messrs. Howse and McGeorge Ltd., the well-known East Affican chemists and photographic dealers, 䆚ave just opened a branch in Iringa

For twenty-five years' service without a single adverse entry a Native police sergeant. in Kenya has been awatded the Imperial Service Medal, being thus the ffe Native in the Colony to earn the award.

Presiding at last week's general meeting of Nyassa Plantations, Itd.. Mr. F. Stacey Hooker said that, given normal conditions in the copra market, the company should earn a good return on its capital.

The revenue from the sale of ivory and confiscated trophies in Kenya in 1928 amounted to the handsome sum of $£_{13,310 \text {. This was very largely }}$ in excess of the estinnte, and is a testimony to the success of the anti-smuggling campaign:

The area under tobacco in Southern Rhodesia this season is not likely to exceed, and may be less than, that of last year. A pleasing aspect of an unfortunate, situation is the opening in Salisbury of tobacco factories, one of which is catering for the Australian market.

The partnership hitherto existing in Tanganyika Territory between Reginald Alfred Fawcus and Hingh O'Neill, under the name of Fawcus and O'Neill, has been dissolved by mutual consent. All absos and Habilities have been taken over by the firstoramed, who will carry on the business.
Mr C E Spencer of Kampala gives notice that
Mr. C. E. Spencer, of Kampala, gives notice that he has entered into partnership with Mr . William Ker Tait, chartered accountayy and that the practice that has. mintreabeen tabhado ot Kampala and Jinja in the name of Spencer \& King will in future be carfred on - in the nanie of Spenter \& Tait.

The Arusha Elanters' Association intends to issue for publication correspondence with the Government regarding a case in which Natiyes drove $a$ sherd of eland over a cliff r 50 feet high. The Association protests strongly against the sentences, the highesebeing a fine of 15 s . or fifteen days' imprisonment

The annual general meeting of the trustees of the Gordon Memorial College (Khartoum) Ftrid was held in London last week under the chairmanship of Eord Revelstoke, who announced that Sir William Edgar Horse had given 500 to provide in perpetuity he award pf two aquatif photer proficiency in survey work

The Uganda Government propqses to increase the staff, of several Departments, the Medical Depart 'ment receiving nine new European officials the Education Department six, and the Agricultural, Veterinary, and Police Departments four each. The Public Works staff is to be increased by twelve Eurcopeans, but temporary engagements only.


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## EAST AFRICAN PRODUCE REPORTS.

## COFFEE

Full prices were obtained for the better qualities, there being a good demand, but poorer. qualities were dutl. Kenya :-
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$\because \mathrm{C}$,
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65s. od. $\quad \cdots$
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$-50 \mathrm{~s}_{\mathrm{c},}$ od.
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Tanganyika:-
Lon'don reaned :-
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Peaberry
56 s od.
Lendon stocks of East African coffees on Jankary 15 tota1led 32,185 bags, as, compared with 29,138 bags on ther? corresponding date last-year.

## Other Produce.

${ }^{5}$ Beeswax. - The market is easier, and the spot vilue of fair block 1405 . per cwt.
Castor Seed:-Prices have declined to about f'15 55. per ton c.i.f. to Hull and £15 per ton c.i.f., to Antwerp for prompt shipment.

Chillies.-The market is unchanged, with sellers of spot East African at 7os, per cwt.
${ }^{\text {Cloves. - The market }}$ is again lower, with sellers of January-March shipments at 8jd., and spot at iod. per lb.

- Copra.-Prices trave declined and the market is quiet. but an upward tendency is expected. Tanga sun-dried No. 1 is quoted around $£ 2255$.
Cotton.-Roller-ginned Uganda has sold at from 115 to 140 points onja and sifw-ginned from 140 to 160 but Tanganyika saw,ginned has been from ito to 140 on American Middling.

Cotton Seed.-There are buyers of East African at f7. 25. 6d to $£ 75$ s. per to
Groundmuts.-The market is steadier, with JanuaryFebruary shipments quoted around $£ 1755$.
Maize.-East African K6 has been unsuccessfully offered at $28 \mathrm{~s}, 6 \mathrm{~d} . \mathrm{K} 2$ is nominally. 1 s . higher per 48 ol . c.i.f. U.K. or Continent.

Rubber.- The nominal valuês are Nyasaland, 4 d . to 41d. Uganda, 4d.; East African Manibot, 4d. to 6ıd. :and East African Plantation, 5 d , to $7 \frac{1}{2} \mathrm{~d}$, all spot.

Simisim.-Buyery have been taking advantage of forced sales" from the Ea'st, and $£_{17}$ Ios. c.i.f. is about the preserit "alue of white and/or yellow, with ios. less per ton for mixed.
Sisal.-Quiet and rather weaker.
Wattle Bark.-Offerings are small and the market is irrgular, East African chopped being quoted about $£ 9^{2}$ and ground $£ 9$ gs. per ton cif.f.

## FORESTRY COURSES FOR MEN ON LEAVE.

THE good work which is being done at the Imperial Frosesty- wititate, Oxfard University, under the direction of Professor R. W. Troup, F. R.S., is well summarised in a little brochure containing the fifth annual. report (1928-29) and prospectus, pub. lished by the Holywell Press, Oxford. The scheme of instruction provides for the acceptance of forest officers on leave who wish to specialise or take a "refresher" course. During the year Mr. Bourne went to Northern Rhodesia to advise the Government on forestry matters, and in 1929. Dr. Burtt Davy travelled through Northern Rhodesia and Nyasaland tudying the vegetation and making extensive botanical collections, with the object of throwing further light: on the systemgty of the trees of these countries.

Tanganyika Territory contributed no fewer than 1,088 specimens to the herbdrium daring the year under review, Keñy 144, and Southern Rhodesia two. Twa forest officerom Kenya and one from Tanganytiv attended courses, while enens, graduate probationer for the Tanganyika service was in residence. Some of the publications emanating from the Institute, such as Bourne's. Aerial Survey in Northern. Rhodesia (already reviewed by East Africa), should be of interest to East Africans.

Northern Rhodesia, the Bristol Evening World has solemnly assured its readers, was known before the War as "German East." At the same time, no doubt, as Bristol was known as Bremen.

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Rev. P. J, Brazier
Miss M. E. Budd
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D. J. H. H. Chataway

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Mr. and Mrs. B. Eanes
Mrs. D. Emley
Mr. F. Franks
Mr A. Finlay
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Mr. and Mrs. A.J. Johnston
Mrs. S: Johnson
Miss N. Johnson
*Mr. and Mrs. E, H.
Mr. J. O. Jameson
Major N. C. L. Lowt
${ }^{*} \mathrm{Mr}$. and Mrs, H, $\mathrm{W}^{\mathrm{M} . \mathrm{C}}$.
Lane and child
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Miss Lawford
*Miss R. Murray
Miss G. L, Meyler
Miss Warker Milnes
Mr. and Mrs. W. D
MacLeman
Miss S. C. McLeman
Mrs. D. L. Morgan
Mr. and I Morgan
*Mrs. Morfison
*Mr. D. L. Morgan
Mrs. D. Mitton and child
Rev. E L. L. McClintock
*Mrs. A. Mcclüre
*Miss McClure

Miss G. M. Marsden
Miss Norris
*Mr J. $\mathrm{R}, \mathrm{P}$. Postlethwaite
Mr̂s. F. E. H. Rimington
and two children
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Mr. F. A. Railton
Mr , J. Robson
Mrs. B. M. Skey
*Mr. L. C. Schwartiel
Miss C. J. Smythe ${ }^{*}$ Mrs. G. E. Spencer ${ }^{*}$ Miss Spencet
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Mr. W. Scurfield
Mr. and Mrs. Seymour
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*Mr.' and Mrs. A Walter

*Mrs. E. Wayland
Mr. and Mrs os.
Sergt. F. E. Welch
Tanga.
MI. W. M. Holden
*Miss E. L James
Miss J. D. Leighton
*Major C. L. Walsh

## Zansibara

*Mr. P. A. H. Pettman
Dar es Salaam.
Mr. H. W. Bailey
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Mre and Mrs. B. T. Bailey
Mr . and Mrs. W. H .
*Mr Sther, infant and child
Mr. S. C. Chismon
Mr. A. E. Collins
*Mr. D. C. E. Clark
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Mr. A A
${ }^{\mathrm{Mr}}$ Mrs T A. Oldaker
${ }^{*}$ Mrs. T H. Parry, infant child and nurse
Dr. C. H. Philips
*Mr. S. Rivers-Smith.
O. B.F

Mrs. S, Rivers-Smith

## Beira.

Mrs. Beaton
Mrs. J. Gr Bowman
$\dagger$ Major and Mrs. H.
A ooner
tMiss C. M. Cooper
*Mr. and Mrs:- T. Henderson Mrs. Holland
+Mr , and MTs. F: R. C .
Kearns
Miss C. V. Machan
*Baron and Baroness Roff
Cedestyom

* Viscountes Rosamond Ridey: D.B.F


## SOME STATEMENTS WORTH NOTING.

Dr. Hale Carpenter, who has done such admirable work on stecping siekiness in Uganda, has just proceeded on leave pior to retirement. I feef sure that all members of the Lemislative Council will join with.me in feeling great regret at his decision to retire, and will endorse nivecindéssion of the great debt which this country wones to him and of our regret that it will no longer have the benefit of nis services."-Sir. William Gowers, Governor of Uganda.
" Grind your coffee. Put it in the pot. Add cold vater. Let it stand for a while-even overnight. Use a dash of egg or not, as you prefer. When ready, 部ut pot on the fire. Watch pot. The instant she starts to boil up, snatch from fire. Let stand a moment. Serye. It is very simple. If you let it boil even a minute, you are simply driving off into the wir a parit of the aroma of your coffee; and besides you are extracting some of the bitterish tannip from the coffee. Dr. William Brady in "The Brooklyn Eagle".
"The majority of settlers who took up tand in Kenya had po pef wous expettere of or, training in agriculture, they had to acquire the Toutine common to alt farming, as well as to "find methods suitable to the novel conditions. It says much for their innate qualities of determination and improvisation, as well as for the natural fertility of the country, that suich remarkable progress in production should trave been attäned. This progress has been rapid and continuous; even the droughts and locusts that have marked the last two years have not destroyed the annual increase in output."-From the Report of the Kefa Agricultural Commilsion.


EBTABLIAHED OTAF 80 YRARS.

## Succeiafully withatands the climatic conditions of Eat Africa.

PERMINENT COLOURS.
EFFICIENT PROTECTION. PRESERYATIYE and DURXBLE

BPEGTALLY PREPARED FOR GALVANIZED, IRON. One Quality-THE BEST

Indents through Merchants only.
Prices and Particulars trom
THE TORBAY PAINT Co., Ltd.
26.28, BILLITER BTREET, LONDON, E.c.3.

Worlre:-Brtzham, Torbay, Devon, England,


## EAST AFRICAN STEAMSHIP MOVEMENTS．

British－India．

＂Malda＂left Kilindini homewards，January 18.
＂Madura＂，leaves Marseilles for East Africa，Jan． 25
＂Modasa＂arrived Kilindini，January 17.
＂Karoa＂left Dar es Salaam for Bombay，January 21
＂Karapara＂arrived Bombay，January ． 18.
＂Khendalla＂，arrives Mombasa Fori，Durban，Jan．24－
＂Karagola＂arrived Bombay，January．21．．．
＂Ellora＂left Bombay for Mombasa，January 17．
Clan－Ellerman－Harrison．
＂Governor＂arrived Dar es Salaâm，January 9.
＂City of Bath＂heft Aden for East Afficary January 13
＂Hpliartus＂＂left Birkenhiendaforwinst Efrica，Jan． 14
Metiskerk arrived Lourenco Marques for Cape Ports， January 14.
＂Sumatra＂left Antwerp for East Atrueqs hawtary 12
＂Ryperkerk＂＂irrived Hamburg，January 12.
＂Alkaid＂left Port Said homewards，Januafy 13.
＂Nykerk／＂left Adenwhmpewards，January II．
＂Giekerk ；eft Dar es Salaam for further East．African ports，January 12.
＂Jagersfontein＂left Jourenço Marques for East Africa January，${ }^{13}$ Klipfontein Cape Town for East Africa， January r3．
＂Heemskerk＂arrived Antwerp outward bound，Jan． 14
芳

## Messageries－Maritimes．

＂Aviateur Roland Garros＂left Port Said for Mar－ seilles，January ro．
＂General Duchesne＂left Zanzibar for Marseilles， January 19 ．
Juteconte de Lisle＂left Réunion for Marseilles， Januarỳ ${ }^{17}$
Fanuary Bernardin de St Pierre＂，left Marseilles for Mauri tivs，January iל：－

## Union－Castle．

＂Carlow Castle＂，Ifff Genoa for Fsst Africa，Jan 15
－Durham Castle＂left Cape T80wn for Loridon，Jan． 6.
＂Garth Castle＂left Teneriffe for Beira，January 17 ＂
＂Grantully Castle＂left Las Palmás for London， January 18.
＂Guildford Castle＂，arrived Beira，January 18.
＂Llangibby Castle＂arrived Cape Town；January 19.
＂Sandown Castle＂：arrived Natal for Beira，Jandsin．

The Raleigh Cycle Company has received a contract for the supply of all cycles and motor－cyclessiequired by the Hanley Police，this follotting similar contracts for Nottingham and other centres．

## MUSTAD FISH－HOOKS

O．MUSTAD \＆SON，
OSLO NORWAY
EETABLIEMED 1882

## EAST AFRICAN MALLS．

Mails for Kenya，Uganda，Tanganyika，and Zanzibar close at the G．P．O．，London，at $6 \mathrm{p} . \mathrm{m}$ ．on：

January 23 per s．s．＂Viceroy of India．＂
＂．${ }^{29}$ ir s．s．＂Wille de Strasbourg．＂
February ${ }^{30}$ ，＂s．s．＂Rawalpindi．＂ s ．s．Kaiser -i －Hind．＂
 20 ＂，s．s．＂Ranpurat＂
26 ，＂s．s．＂Generat Duchesne．＂
Mails for Nyasaland，the Rhodesias，and Portuguese East Africa close at the G．P．O．，London，at ir． 30 a．m． every Friday．
Inward mails from East Africa are expected in London on January 27 per the，s．s．＂Aviateur Roland Garros，＂ on February 1 per the s．s．＂Rajputana，＂and on Febru－ ary 9 per the s．s．＂General Duchesne．＂

## RAINS IN KENYA AND TANGANYIKA．

THi heavy rains which have caused large wash－ aways on the Gentral Railway of Tanganyika appear to be spreading to the Lake Province of Kenya， where last week＇s rainfall was approxtmately thete inches，against half an inth in the previous week． Rainfall now would do good to Native crops and to fly crops of coffee．The lafest piews from Dar es Salam indicates the the Khotiontine section of the Central Tine is not likely to be reopened for traffic until about the end of the first week of February．

Kagêra（Uganda）Tinfields，which announces an output of 86 tons of tin concentrates during the last quarter of 1929，compared with 69 tons for the corresponding period of 1928，has agreed to restrict output on the lines recommended by the Tin Pro－ ＂fucers＇Assochation．This will involve the suspen sion of tin wipning for one clear week in January， another in Februaty，and another in March if the Council of the Association deems it necessary．It is announced that Mr．C．E．E．Pargeter will con－ tinue ta serve the company as general manager．

## PERSONAL ANNOUNCEMENTS．

 PREPAID rate of 3 d．per word per insertion，with a minimixim of 5 s．Der insertion；three consecutive insertions for the frice of two．For Box No．advertisements there is an ad difional charge of is per insertion towards cost of forwarding replies．Advertisements reaching＂East Africa，＂91；Great Titchheld Street．London W．，after Tuesday morning will not appear until the following week．Announcements will appear under suich headings as Births，Forthcoming Marriages，Marriages，Deaths，In Memoriàm，Aか力pointments Vacant and Required，Land for Sale and Required，Agenciess Wanted and Offered，etc， In Memoriam announcements can be inserted for fve or ten jears at special rates．

REXHILL－ON－SEA．Furnished house，four bedrooms，dining room， B lounge，hall，garage，and teniis court，to be let．Moderate torms to good tenant．Apply Box No．195，East Africa，91，Great Tjtchfield Street，London，W： 1 ．

NEWLY furnished Guest－house，quiet，oonfortable ；terms from £2 2s．per week． 76 ，Philbeach Gardens，London，S．W． 5 （five mins．Earl＇s Oourt Station）．


THE EAST AFRICAN NATIVE COVETS A SAKFETY RAZOR :


ALWAYS INSIST ON
GILEETTE BLADES.
 This set comprises a Genuine Gillette Safety Razor and a-Double Edge Gillette Blade (2 shaving edges) Packed in Strong Metal Case. Made within the Empire. The Dealer can sell it at 2 s . and still have a Handsome Profit. Particulars, etc:


184/8, GREAT PORTLAND STREET:


ALWAYS INSIST ON GIELETTE BLADES.

LONDON, W. 1 .

The most dependable Goods are those that are Adyertised.

# THE <br> KENYA RAILWAYS and HARBOURS <br> <br> TOURIST-SPORTSMAN-SETTLER 

 <br> <br> TOURIST-SPORTSMAN-SETTLER}

a Conntry where variations in altitudes rencit in eyory degroe of temperate olimate and every form of prodrotion, oananot - waide bat prove interesting and werthy of elose inspection.

For informiation apply to-
H.M, Eastern African Dependencies Trade and Information Office, Röyal Mail Building, Cockspur Street, London, or the General Manager, Kenya and Uganda Rällways añd Harbours Headquarter Óffices, Nairobi, Kenya:


[^0]
## Spray Better with a Better Sprayer

In soundness of design, strength in cohstruction and exceptional efficiency in action.
"MARTSMITH" sprayers
are second to none. They represent the latest in up-to-the-minute sprayer design and are eminently suitable for all overseas uses.
$*$


## Martineaters Smith

Holloway Head, Birmingham

East African Representatives: Kenya Agericy, L Uwion Buildinigs, Naivobi, Kenya Colony. .

WAGONS, TRACK 8 LOCOMOTIVES FOR ESTATES.
ALL MATERIALE FOR ROAD CONSTRUCTION WHEELS, AXLE-BOXES AND ALL BPARES IN BTOCK.


WILLIAM JONES, LTD. 154/5, UPPER THANES STREET, LONDON. Work's: Greenwich.


THE VINEGAR WITH THE 胃FICIOUS

9. It is equally good for picking, salads, and table uşe. I It is guaranteed full strength, and will keep under: all climatic conditions.
In shoit, it is the Ideal Export Vinegar. As̀k us for Saimple and Quotation.
WHITE-COTTELL \& Co., LONDON, S.E. 5 England.


## LIVERPOOL COTTON ASSOCIAFION.

Liverpool-The Greatest Spot Cotton Market in the World.

Members of this Association offer Facilities for the Sale, Purchase and Finance of Every Growth of Cotton.

THE WORLD FOLLOWS LIVERPOOL COTTON QUOTATIONS DAILY Growers and Shippers should send their Cotton to Liverpool.

[^1]"Eastern Africa To-day."-Worth a Culnea-costs only 68. post free.

## STRONG! SIMPLEI! SPEEDY!! <br> 

The "GOOD-WIN"
Portable Open Drum Mixer




ROYAL MAIL SERVICE SOUTH 8 EAST AFRICA

MADEIRA, CANARY ISLÁNDS, ASCENSION, ST, HELENA \& MAURITIUS. REGULAR SERVICE TO EAST AFRÍCA
Via Mediterranean ports and Suez Canal,


Difect Cargo Service botween Now York and South and tast Arrick. SOUTH \& EABT AFRICAN YEAR BOOK AND GUIDE (WİTH ATLAB)


## UNION-CASTLE ETNE

Hềd Olfice:-5. Fenchurch Street. LONDON, E.C. 5. Branch Offices at Southamptoncy, Birmingbam; Leeds, Liverpool, Manchester and Branch Ofices at Southaypton, Birmingbam, Leeds, Liverpool, Manchester and , Marques, Beira, Mompasa and Johannesburg.


for health, strength and stamina

## 10 minutes "Terry""

Steclstranding 貫 ity
tones up every muscte. cleanses it of waste, and enriches it with new vigour and - you will meet' thestrenuous conditions of your work more easily through the medium of scientific exercisé: .
Write for List: difficutty
wite ws. active foam that cleans all around and in between your teeth-Kolynos! It kills germs

- that cause decay ; washes away film that makes teeth grey, and reveals them white and spark ling: It stimulates the gums, guarding them against pyorrhoea. You will enjoy the cool, fresh sensation it leaves in your mouth. Get a tube from your Chemist or Store.
-the "Torry". spring sear seddle is avoushion of high-arads
springi. Takes up all ahocks and vibrations. Liot free.


## TEREY

HERBERT TERRY \& BONS. LTD: Hedditoh, England

Factory Representative: O. W. DAVIDS'ON,
P.O. Box 788, Nairobi, Kenya Colony.
Nairobi, Kenya Colony.

———

In this issue we publish important extracts from the report of $\mathrm{Mr} . \mathrm{C}$. Gillman, Chief, Engineer of
the Tanganyika Railways, on the proposed routes for a railway from the
A LIME TO south-west Tanganyika Central Line to the southtancanyika. western areas of the Territory. He is a strong advocate of a line from Kimamba to. Manda, in preference to one from Dodoma to Fife, claiming for the first project a capital sàving of $£ 2,000,000$ and an annual operating economy of $£ 47,000$. Settlers in Central Uhehe will naturally dislike his recommendation, but to the Iringa Province as a whole it will be a-consolation to be told that the Tukuyu, Ubena, Lupembe, Mufindi, and Dabaga areas would be better served by the eastern than the western route, and that Mbosi and Mbeya can be economically served, briat thatencterng ine Guriously enough, the teat importance, makes, no mention of the value of an aerial survey of the areas between the most easterly and the mast westerly alignments possible. Where so much is at stake, antw where so much has already been spent on survey work, the relatively smalt. additional charge for a thorougt defial mapping of the country in question would seem wise.

A good deal of discussion appears to have been aroused m East African , circles in this country by our criticism of the action of the East
unbalanced PUBLICITY. African Section of the London Chamker of Commerce regarding East African participation at this year's Belgian Cotonial Exhibition in Antwerp, and, if we may fudge from the expressions which have reached us, there is a strong body of public opinion behind our suggestion that the expenditure would be entirely unbalanced, and that, however desirable the object Kenya took the right coursein deeding not to vote the conisiderable sum which would have been involved. If the East African Dependencies' Office in London had adequate funds for propaganda and publicity in this country, the matter wotuld be dif ferent, but as long as that is not the case we shall consider any heavy expenditure on any form of Continental advertising misplaced We thenefore trust that Kenya will stand firm, and that her example will save the other Dependencies from a step which, if desirable in itself, is beyond their pre. sent financial resources. If, however, any of them feels able to contribute from public funds the further sums which participation the Antwerp Exhibition would necessitate, such sums might'much more advantageously be utilised in extending East African publicity in this country, in which only the fringe of the work has yet been touched.

To criticise some of the acts of Northern Rho desia's great copper mining companies, as a corresponden moes in this issue, is not to be

## NORTHERN bHODEBIAN miniwc.

 construed as a failure to recognise the immense importance to East and Central Africa of the undeniably vast mineral deposits in thennorth of that great Dependericy. Their exploitation has within the last couple of years transformed the whole outlook ofNorthern Rhodesia and can scarcely fail in the next two or three years to have still gieater influence, while some sound observers believe fhat within the next decade Northern Rhodesia will, as a direct by Mr . Frank Hives in his book; "J Jim and Instige Nigeria," which, though a popos of West Africa, is applicable in many particulars, "to the East African Dependencies: And where" he asks, "are those men who, in the days of twenty-five years ago, risked their lives almost daily in the bringing about of the present-day prospefou and happy conditions? Many of them have left their bones in the country they so admirably developed and controlled, while others have also joined the great majority and lie in early graves in Old England, or have 'made holes' in the Bay of Biscay with their poor malaria-emaciated bodies. tipped over the side of an Elder Dempster steamer. A few, far too few, are reaping their reward and taking their well-earned rest, ekeing out an existence derived from a pension paid by a fatherly Government. In summer time they sit in the (very occasional) sunshine, the heat of which is so small compared with that in which they toiled for so many years; and in winter shivering over the fire in some small house, mostly forgotten by their successors of to-day, who have none of the hardships with which the men before them had to contend, and with
result of her mines, have a European population of between fifty and one hundred thousand. However that may be, the production of the mines must affect fundamentally the lives and fortunes of large numbers of men, white and black,' not directly connected with them. For instance, their demand for food is already providing a local market for the produce of Northern Rhodesian settlers; to take a more remote example, a promise to send a reasonable share of the mineral traffic over a British railway to a British port on the Eat Coast, might be the decisive factor in the selectiolifof the route for the Imperial trunk line from the Central Railway to the southern high: lands of Tanganyika and thence to the present Northern Rhodesian railway.". Thus, just as the interests at stake far transcend those of mining magnates and their shareholdenss so anythige Tikely to weaken public confiderite the mathagentert or future of the mines is inimical to East and Central Africa as a whole. Resporisible people have for some time deprecated the way in which Northern Rhodesian mining shares have been forced to high prices, and it is with the object of sounding a note of warning that our contributor, himself a mining engineer, has set down what many East Africatis have been thinking and saying.-

The average Colonial Civil Servant, having done his work and contributed his effort to the maintenance and extension of the Empire, retires (if he is still alive) and is forgotten. A rather pathetic but entirely accurate reference to his fate is made
$\qquad$ $\therefore$
$\qquad$
$\qquad$
$\qquad$ $\therefore$

$$
\because
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have been thinking and saying:-

$$
\therefore
$$

## RETIRED <br> colonial <br> officials.

only their past glories to look back upon."


FROM ARUSHA TO TANGA BY CAR.

By Captain H. C. Druett.

Editorial Secretary and Special Correspondent of "East Africa"?

Tanga

Motoring adds a spice of adventure to the traveller's enjoyment of the constantly changing and beautiful scenery of East Africa. Round the next corner you may come face to face with a lion-one resident in Arusha still proudly shows a dent in his mudguard, caused through running into a lion only three miles from the township; a patch of black cotton soil may force you to divest yourself of shoes and stockings and wallow in thick mud for three or four hours; a bridge may have disappeared and cause you to build a temporary one; or you intiy have to cross a particularly hazardous pseudo. bridge over a river with a particularly evil reputation for crocodiles.

In short, East African roads offer to the newcomer just that extra dittle thrill which lifts it out of the commonplace astride a huge cavity menemotercetching perhaps for hundreds of yards; at another he endeavoursoften without success-to follow in the winding tracks which an obliging fellow-trakeller thas left in the mud; and immediately he lifts his eyes from the road to the fascinating wictures, the car strikes a rut cutting across the track

## Meru to Kllimanjaro.

The route from ATtistment Tanga traverses emptv plains, dense forest, and sisal-and coffee shambas On leaving Arusha the motorist passes through the Usa district, where an illustrated sign outside Lamp$\operatorname{ard}^{\prime} \mathbf{s}^{\prime}$ store announces that it is his last chance to obtain refreshment or petrol . The warning is opportune, for the next place is over fifty miles away.
Gradtually Mount Meru is left behind ahead is one of the wonders of the world-snow-capped Kilo manjaro. The road is not a comfortable one, especially on the approaches to the small bridges, while on the plain-beyond Usa are stones and boilders the presence of which must bevaposifive boon to tyre mantufacturers. Game is scarce near the road only one small group of ostriches being visible when for went through.
Some twenty miles from Möshi is a solid stone bridge, built by the Royal Engineers during the East African Campaign, and a few miles further is a suspension bridge, which to judge from the sagging movement and alarming noise as the car passed over its loose planks, did not strike me as too safe. Later I learnt that the Governos had given expression to the same thoughts. From a bridge expert I discovered that the foundations are simply tree trunks, and as the bridge is in constant use. the authorities may in course of time convert it into ? more permanent structure.

## Whll someane send a Photograph ?

From Moshi a detour is made of some thirty-six miles before foinimg the Old Moshe road, which thoroughfare is, I believe, perfectly good, with tlie exception of a bridge over the Ruvu, to repair which would cost no more than $£_{25}$ ! Meantime, the motorist has to pass over the Ruvu River and another stren by- two log bridges, the first of which slopes downwards at a steep angle, and is just wide enough to take a car, while a few yards further on is another log bridge, the only difference being that the second not only slopes downwards but also sideways, with nothing at the side to prevent a car slipping off-to the crocs below. So, once safely on the bridge, I " stepped on the gas " before the car had time to slip, swinging round a sharp right-
hand bend immediately dry land was reached. My only regret is that the bad light prevented my taking a photograph. Will a Moshi reader who passes. that way take one and forward it to Easit Africa?

After reaching the Ofd Moshi road-the track to which is hardly discernible in places; the route is sufficiently good to permit travel at $20 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. On the way 1 passed $x$ dereluent thith, from the outside, appeared to be quite good, but from which every useful engine part had been extracted. Curiously enough, its tyres remained on the wheels. I understand that its steering. gear becarie useless, but why its owner should have left it " in the blue remains a mystery,.. Maybe he feared the two bridges over the Ruvu,

## . Half on and half off a Bridge.

Now the road improved so much that I had visions of reaching Tanga in record time. The sun shone, making even, the scrub look brighter than usual. Then appeared a deep watercourse, its steep sides deep with thick mud, and at the bottom a narrow bridge. Chains having been fitted to our whells, we slid down to the bridge, thotigh Unfortunately we began to slide sideways, eventually reaching the foot with one front wheet on the bridge and the
 I remained for two hours, while my own boy went in search of as many Natives as he could muster from the nearest, village, about three mites ahead While he was away I dug as much mud as I could from the back wheels, which had sunk to their axles.

At last assistance-came, in the form of twenty hefty Natives, who cheerfully lifted the car from the mud and on to the bridge, and then pushed it, inch by inch, up the other side. By racing the engine at intervals, and constantly digging away the mud; the top was gaired. That short span had taken over four hotur's to negotiate-but as cafs have been known to remain in the East African mud for days "pn end, I might have been much less forfunate.

Proceeding onwards, we passed Kisangira railway station. Huge boulders in the road, through long stretches of which were deep éavities, made driving very difficult, ane after the brief tronical twilight it was sóon a dark, moonless night. Nototor-- ing through forest, especially on a road full of pot holes, was by no means a pleasure. If I had not quite made up my mind on the matter I should deff nitely have done so when, after passing the side of a sisal estate, we came suddenly to a river over which a bridge had once stood.-With -sisal plantson either side, and a heayy thunderstorm in progress, I could do nothing but reverse the car for two miles, until I reached an avenue leading through the sisal to a duka and some huts.

## A Welcome Cuest House:

The Indian in the duka was not topopleased at being called out, but on being addressed in Hindustani his attitude changed, and he led me to the buvana's liouse not far away. The owner of the plantation, Mr. Manyakis, was at Arusha on his coffee shamba, but his boys told me they had a guest house, complete with bed and mosquito net, at which I could stay the night. Never was that guest house more appreciated, and in a few moments the boys served up coffee and a dinner of fried eggs and bacon:

Throughout the inght the storm raged, but ceased in the early morning, so, after breakfast. I pushed on fortumately finding the soil of a different nature from that behind us indeed, the rains had had very little effect, except on the patches of, black cotton soil. through which we raced as quickly as possible. $O_{n}$ the road to Same, a small village at the foot of the Upara Mountains. $30 \mathrm{~m} . \mathrm{p} . \mathrm{h}$. was possible. but,
pride going before a fall, at the end of one such stretch I found myself well into a long patch of water, in the middle of which was a rut nearly two feet deep . Meeting the unseen obstacle, the car bounded over to the side of the road, where the wheels stuck in the soft soil Getting out, 4 found the centre of the undercarriage resting on the edge of the road and the skteg wheels sink tö the axle. Digging merely revealed 1 small stream six inches below the surface; then, two hours later, a lorry came along and lifted the vehicfe back on to the road. With that our troubles ceased. The drivera Greek planter living at Kiswan invited me to his shiamba, where 1 feasted on cold chicken, tea, and freshly picked bananas.

Resuming the journey after. a brief fest, I soon found the road black with myriads of "hoppers." as locusts are called at the hopper stage of their existence, It was a really extraordinary sight to see the little black insects hopping along the road, the surface of which" wassopmietel blotted out. A little further on a lod in he and other Europeans, together wan hintreds of Natives, were engaged in attempting to destroy the insects before they reached the hopper stage -tyy no means an "easy" job for two days after cledring an area it is quite usual to find the ground swarting with other locusts, busily aeting the bodies of their dead.

Through Gonja the road traverses thick forest; where we surprised a mon monkeys on the road. A little farther on are some sisal plantations: the managers' bungalows of which could be, seen buile on the side of the hills four or five miles from the main road. On the left lie the Usambara Mountains.

## The Crowing Crested Cobra.

Then found the home of the crowing crested cobrat lateme say at once that F did not actually see ofie but Mr, H. Hophman on whom I called in the hope of obtaining some petrol-assured me that he had killed one not far from his house only a few days before: Though it had no crest, he, his wife, and hhis two brothers all testifine atavits crowing abilities Mr. Hophman, I found ${ }^{2}$ came to East Africa somlie twenty years ago from his home in Switzerland, and he probably knows this part of
. Tanganyika more intimately than most people. He was one of the first to climb Mount Mawenzi though, to use his own words, "it is easier to climb a mountain than to descend."
His bungalow, on the top of a small hill about two miles from the road, is surrounded by a boma of thorn bushes, and during the evening I fistened to thrilling stories of hairbreadth escapes from lions and other animals. "Sitting on the veranda in the cool of the quiet, tropic evening, it was difficult to imagine that only two weeks previously he had been called out to kill an elephant which was damaging the Native gardens five or six hundred yards away. Yet such had been the case. Incidentally, I learned that not far from Kihoriu are the remains of an ancient civilisation simitar to those found elsewhere in Africa. Mr. Hophman and his brothers are at present the only ones aware of the exact spot, where on the walls of caves and rocks, can be seen carv ings made perhate housands of years ago.

From Kihorit! to Tariga-a distance of 120 milesthe road is, generally speaking. not so good as that between Same and Kihorjil Howecet, the PW.D authorities do exercise contgol over the portions built on black cotton soil. for they close them com pletely in the wet weather Unfortunately, manv such patches are only small, and lorries laden with Natives; or with produce simply plough throagh leaving behind them ruts as much as two feet deep.


In The Usambara Mountains:

## Through Dellghtful 8cenery.

After rounding a big hill just oufside Kihoriu, and acrass the plaing out road rom tanugh a-big sisial estate at Mkomazi-where the srgnpost, "To. Tatiga,' had its finger pointing in the exactly opposite direction. At the next village, Mkumbara, the aerial railway, over five miles in length, is seen running down from the slopes of the Usambaras at Shume. In approaching Mombo-the first settlement from Moshi ( 160 miles distant) at owhich refreshment or eatables can be obtained-the road winds its way through park-like scenery. On each side is closely wooded forest, while overhead the branches of the tamer trees are closely interwoven, and, when seen with the sun overhead and glimmering through the branches, it is indeed a sight not
easily forgotten.

Beyond Mombo the road twists and turns through big sisal plantations to Korogwe, a Native town of more than average size and a centre of railway activity, though the closing of its hotel mokes it -impossible for the traveller to pass the mght here on his way to Tanga. Ngungandestined to be remembered by its long avenile of acacia trees, is reached shortly afterwards, and then the traveller passes over and through the Usambara hills some. thirty miles from Tanga. Eorries which had gone over this portion of the road in wet weather had done considerable damage, but new deviations showed that the responsible Department had the matter well in hand The scenery through the hills is delightfif, but the gradients in some parts are particularly severe.

## Tanga.

Tanga is approached through miles of coconut palms-many of them probably planted in the old slave-trading days. What a relief to leave the golf links on the left and reach the sea-front a few minutes later! To drive along a smooth, tarred road, and to see ahead the cosy lights of the Tanga Hotel, seemed for the moment to be adeqtiate cause for delight.

It was a surprise to be greeted from the veranda by two Moshi residents, Mr. I. C, Rennie and Mr. Scott, who had quitted Moshi only the evening before, had driven right through the night, and had arrived in Tanga an hour or so ahead. They had daven in turn; seemingly in an endeavour to estabTish a new record for the Meshi-Tanga run. but. unfortunately for them, they had stuck for three hours in the middle of the night at the water fourse on the Old Mosfi road. Tess fortunate than $I$ had been, they had to rely on their own efforts to extri-
cate their car.

# FRENZIED FINANCE IN N. RHODESIA. 

## Are Present 8hare Prices Justified ?

## By. a. Mining Enginect:

In the many mining booms with which the finan cial world has been afflicted from time to time, the wave of pessimism following the wake of inflated prices seems invariably to depress the industry to a lower level than before inflation. Let it be hoped that with Northern Rhodesia this will not be the case; for the highly inflated prices of some of the Northern Rhodesian copper companies, their parent companies, and their grandparent companies, have
s. led to much speculation by people who have little, or no, interest in the country, but who have beên satisfied so long as their shares haave gone up or down, according to their requirements. For the unfortunate individual, however, who has looked for a genuine investment, hoped to get in before prices were too high, and wanted an increase in the capital value of his stôck less than substantial dividends, the Northern Rhe of satisfactory

It musf be admitted that the companies colntrolling these mines have never in their numerous publicity puffs said arything about sharekblets getting a dividend for a long time yet, but othet methods have been employeder posfibly unintentionally, that have had the effect of inflating the market. - These matters, however, aire outside the scope of this review. It is theresolossal expenditure that is the really serious problem confronting the future of the mines:

## A Voraolous Mine.

*From the average Press - repont the uninitiated might easily assume that Northern Rhodesia hàs only recently been discovered," and that the mineral wealth coyly hiding beneath itse surface is a phenomedon only now beginning to shawer its rays of financial warmth over the world. Little do they realise that the Bwana M'kubwa Copper Mining Co., Led., has been int active existence for many years, ever swallowing money with the yoracity of a cuckoo in a thrush's nest
Fust as things looked blackest, however, , here came to light a new property, Nkana. Expensive drillers were imported from America, boreholes were sunk, and there soon began to float back to Tondon a succession of cables concerning the ex cellent copper values found within its boundives. These reports were very good indeed and even now we are treated every few weeks to glowing statistics of. further riches encountered, each seemingly better than the other. Sir Edmund Davis, the driving force behind many of these interests, has made speech after speech, and more and more money has been subscribed for shipment to Northern Rhodesia, there to be spent with a rapidity almost unexampled in the mining world.

Following the dawn of this great activity came the inevitable prospecting companies-The Rhodesian Congo Border Concessionst (rejuvenated by fresh capital), Serenje Concessions, Ltd., Loangwa Concéssions, Ltd., Kasempa Concessions, Ltd.; and so on. An internationally known geologist was engaged from Canada, and brought with him a host of technically trained geologists direct frôm universities in Canada and the United States.

## Local Prospectors not warifed.

The local prospector with his knowledge of loeal conditions and labours was not encouraged; and rarely engaged: Only highly trained academicians here, they said. Schedules and time-tables were compiled for these men. Each one had to walk
twenty mites a day, by a set compass bearing, and accompanied by a bicycle wheel, complete with speedometer, pushed by a perspiring wand wondering Native. Every inch of the ground had to be covered, no satter what the expense. At one time these prospecting companies, three of which now operate under the title of Loangwa Concessions, Ltd., employed approximately sixty geologists. Roads were cut through the bush for hundreds of miles, lorry services were inaugurated, and camp equipment bought by the ton. It is difficult to estimate the present working staff of these concessionary companies, but there is no difficulty in observing that the eolossal expenditure still goes on its mery way:

A wel known independent mining engineer estimated a few months ago that Northern Rhodesia has, within the last few years, absorbed over f10,000,000 from mining interests. To date there has ween no appreciable return from this sum. It can therefore be seen that e even supposing that no nore capital expenditure were necessary for the development of these copper mines in Northern Rhodesia (which is far from the case), a very substantial amount would have to be earned each yeat to pay even a medarate rate of bltwidend. Nor must
 panies find any other mineral fields the same process will have to be repeated. Their present expenditure is only initial, and if and when it is decided to develop any of their finds, yet another million or so sterling will be needed to bring it to the profitearning stage.

In the opinion of well-informed Nothern Rhodesians the Sir Edmund Davis companies have as much work on hand as they can cope with. Surely then it would be more compatible with the interests of the shareholders in their several inter-linking come panies if for the time being they abandoned the indefinite for the concrete, and, instead of spending more money in looking for fresh mines,. devoted their funds to bringing their proven properties to the production stage -more quickly than is now possible.

Broken. Hill, which produces zinc lead, and tanadium, is probably the most disappointing mine in Northern Rhodesia from the shareholder's point of yiew. Some little time ago a large sum of money: was raised for the purposes of conserving the water, and of building a large dam, at Mulungushi, in order to instal a hydro-electric plant for the supply of electric power to Broken Hill mine, and, possibly, to the copper mines further north. At the same time the mine, with its enomous querhead and running expenses, was in dire straits, and it was realised that the only thing to save it was to-increase production. Accordingly a new zinc. plant was ereeted at great cost, and, with power flowing evenly from Mulungushi, everything in the local garden was lovely. The production of zinc, we were told, would ascend to a minimum of 1,000 tons a month, and might even reach 1,500 tons. So far-and the plant has been in full working order for some time-the output has never reached $\mathrm{I}, 000$ tons; ; usually it has been nearer 850 tons. -

Explanations were made. The plant was not ruthning quite smoothly and was using $50 \%$ more sulphuric acid than it should have done in the chemical process: but " adjustments" were being made, and everything would be all right in the long run. It would appear that this property can rival "Charley's Aunt " in this respect, for it has now been " running ', for over twenty years-but it has an audience
(Concluded on page 647.)

## A RAILWAY TO SOUTH-WEST TANGANYIKA.*

The Problem of the Imperial Through-Line.
The case for an Imperial through-line which will eventually link up alf, or most of the Easf and Central African Dependencies, and will thus bring about overland connection between British North and South Africa, need not be elaborated. Such a railway is essential for the realisation of many well-known and widely accepted principles, With rapid progress, however, of aviation which will doubtlessly lead to a reliable air Tine for passengers and matis throughout the length of Africa in the not too distant future, it would be a mistake to look at the problem of a through railway' primarily from the point of view of the best through passenger service; the advantages of stach; a line to the passenger lying rather in the direction of assisting the administrator and business man in his lotally Testricted north-south movements and in offering opportunity to the more leisurely tourist fift the study and enjoyment of Central Africa...
"Although a large-scale transport of labour may also enter the argument, the main functoon of the contem plated Imperial through-line will âlways remain inc the fields of goods traffic, and the considerations which should rule the choice of the most efficient dalignment can therefore, be summed up under the following two broad

ib) Its mare or less north-south trending sections should form feeders to the existing fink lines, which, with their coestward trend, will fachiware the concentration of Cential African produce at as few. poits as possible
${ }^{\prime}$ In addition, the greatest wise should be made of already existing tines, or parts of such lines wherever their general direction coincides with that of the Imperial. through-line

It is, of course, $a$ foregome conclusion that the realisation of athough-line, say fram Nairobi to Broken Hill, will take a-considerable time, and that long before the hal achievement certain sections must and will be conistrueted, temporarily at least, on their own merit. In order; therefore, to locate these "advance sections" correctly it is necessary to fix, once and for ever, ypon a definite general scheme for the eventual through-line; or, in regions' whose future development cannot as yet be áccurately gauged, to plan the sadvance sections' in sưch a manner asto render them useful links whatever the


## Local Considerations of *evenue.

3. "As each Territory will, presumably, have to construct its portion of the through-líne out of its own resources, 10carobersiderations of revenue whersturally play an outstanding part in the final delibera, an, and it may well be that such lodal dictates may lead to the lengthening of the whole line, a fact which, however would appear to fossess but very secondary importance. Especially in Tanganyika Territory, which, due to its vast extent and to its geographical position as an intermediary, will in any case have to bear the brunt of the cost, the firght to put: economical development before shortness of the through dine is one that should be tenaciously insisted ypon.

Wherever reference is made to sections lying to the south of the south-wéstern border of Tanganyika*Territory, such reference is based solely upon the very meagre information from the i in $1,000,000$ map, no superior sources of knowledge being available for the present. But as these sections do not materially affect, the argument as far as this Tiertitory is concerned, it seems safe, for the time being to assume that a railway from the south-west will yeach North-Eastern Rhodesia somewhere in the neighbofrrhood of Pa Chawa (some 80 kms , to the south-west of Fort Hill, approximately at New Fife), from where a linking up with either of the Tanganyika Territory alternatives for an Imperial through-line is possible. It thas remains to review these alternatives from the Rhodesian or Nyasaland border northwards to Nairobi.
"Such a review would be incomplete if no mention were made of the ady existing through connection, by railvays and lake steamers, between Nairobi and Aber corn via Kisumu, Lake Victoria, Mwanza, Tabora, Kigoma, and Lake Tanganyjka-a roundabout way, to be sure, with its four transhfping stations and its total eventual distance of approximately, $3,100 \mathrm{kms}$ from Vairobi to Broken Hill, but one which is already to a large extent availiable for the administrator and tourist

* Being further extracts jrom Mr. C. Gillman's Report

Due nofice should be taken of the existence of what may suitably be called The East African Main Water Parting, which, at least in places, promises to offer easy, high ant dry ground and accordingly cheap construction. This : Main Divide, keeping geiferally between 1,500 and $2,000 \mathrm{~m}$. altitude, runs more or less parallel to, and at some distance from, the western edge of the great East African zone of rifting, from Mbulu in the north to Mount Mbeva in the south. Frondefopponite jumps across the relatively low Eingano patson to the Central African (Nyasartanganyika) rift-belt, traverses the Livingstone Utbena block in the south-easterly direction, and then, is se region of the Pitu headwaters, dips suddenly and unexpectedly from the archaic 'High Africa down on to the much lower ground formed by the meso: zoic sediments of the coastal hinterland.

Topgain this divide from the, south-west would mean, of course, the goossing of the Centrat African rift system, that is, such an alternative through-line would coincide - With the Dodomat:Fife line as far north as Old Utengule. From there it could only reach the neighbourhood of the divide by a detour down the Rukwa rift and then across Ibungu to the headwaters of the Lupa river. An investigation has thoun that far from being a broad expanse of high flat grown, the actual divide line has a markedly sinuous fourse; both in the horizsitat and vertical sense, and offers practionly nowhere exceptionally favourable -for a railway: To the noth of the central line topographical conditions become easfèr as far as Singida, where the divide would, in any fase, have to be left and the more broken ground of the East Afrikan rift system entered.
 of its length traverse extremely poor, often uninhabited and uninhabitable country. . And stich areas as the higher ground south of Itigi, or as the Singida and Mkadama districts, which are ecbnomically more promising, are too limited in extent to influence the choice of an Imperial through-line and can, furthermore, be linked at no great cost . with existing rallways. - Chief of all, however, this 'main divjde' line would contribute nothing towards the dejolopment of the south-west of Panganyika Territory, and must for this reason alone be ruled out of com: petition; even though it might form the shortest and probably the cheapesf-of all possible through-lines..

There thus renains only two alternatives: the Western, or Rift-Zone, Liñe, based on the Dodoma-Fife project, and the Eastern or Scarp. Foot, Line, emanating from the Kilosa-Manda scheme. The southern portions of both these lines between the Central and the Nyasa border have been sufficiently studied in, the present report, their respective lengths being 741 and $750^{\circ} \mathrm{kms}$. To enable one, however, to form a preliminary estimate of their merits as a whole, it will necessary to outline. the, possibilities fidheir northern, extensions within with ledge of the ground

## The Western or "Rift-Zone" Line.

"Although muck more detalled work is required, it already be asserted from the General. Manager's, and present writer's flying reconnaissances that the only feasible alignment would traverse Ceátral Ugogo over easy ground, would then have to cross the north Ugogoi range of high hills-an unavoidable obstaclecgain the great elbow of the Bubu river, and then follow the long and windinto course of that river, very probably for the most of the way through far from favourable topography, to its source above Dareda. Thence a by no means easy descent would lead to the Mbugwe flats, from where Arusha can be reached through the arid wastes of Masai Land. The estimated length of such a line is at least 460 kms., the average kilometric cost being tentatively put at 25,400 .

From Arusha to the Kenya border, which should be crossed well to the east of Mount Longido at Ngararamoni, the line of least resistance, making use of the existing line from Arusha to Sanya and of the cantemplated branch from Sanya to Engare Nairobi, runs through the great gap between Kilimanjaro and Meru and not over the high and difficult pass between Meruand Mondul. From the border Kajiado can be reached over ground not too. excessively broken." The estimated length is :90 kms: from Sanya to the border and 700 kms . thence to Kajiado, with an average kilometric cost of \& 4,200 .

The total estimated loss of level between the Kenya border and Dodoma amounts to $1,100 \mathrm{~m}$.; of 3 m . per km It will thus be seen that this northern extension very ably continues the traditions of its southern Dodoma-Fife root by persevering, as much as possible, to run againgt the grain of an intensely shattered land. Economically, too. it does not open up particularly promising country, and
the few small highland oases of Sative and white settle ment (Usandawi. Burungi, Kondoa Irangi, Uasi, Ufiomi; and Mbulut will not, for topographical reasons, be actually traversed, although they lie well within the economiczzone of the tine which; with the exception of Ufiomi, they can reach by short deseending roads-

There is, however, another possibility of continuing an Iringa-Fife line northward. Choosing the KalengaMsagali, instead of the Kalenga-Dodoma alternative, one could gain, and remain in, comparatively easy country by following the flat open valley of the Kinyasungive (and thus avoiding entirely the obstacle of the north- Ugogo Trange), by skirting the Burungi block either to the east or west and by thus feaching, the Masai plain at the foot of the Masaii scarp. Such a line would be the natural, direct and shortest link between north and south through Central Tanganyika Territory: It would touch none of the few productive oases which would; however, as in the case of the Bubu line, all except Usandawi, be situated within an economical distance from the railway to which theyteuld again be connected by descending roads. Next to nothing is known of the topographical and technical detail of the country along its route, which is being proposed solely on the basis of such general information as can be gathered from the map. Very rough estimates give its length at 430 kms . (MsagalfArusha), with a mean kilometric cost of $£ 4,200$ and a loss of lovel of $1,230 \mathrm{~m}$.


## The Eastein of "irarp root Line:

"For a continuation northwards of the Kilosa (or Kimamba)-Manda line we possess better naterial in the shape of an eartensive and aseful thobigh fretigh reconnaissance by a cömpetent German railway official; and much of the ground has bsen visited, in 192 r , by the present writer.
"From the available evidence it appears that the technically and economically best line wauld be one leaving the Central Railywno, and crossing the fertile. cotton land at the foot ore the great East African scarp towards Tuljani ${ }^{\text {. }}$. From there two -alternatives are pos sible: either to keep outside the mountainous belt and continue throúgh the well-populated districts of Uzeguha aed Handeni, where not less than twenty-four plantations had existed before the War; or cut through the corner of the broken mountain land into which the great scafp is here dissolved and thereby to get closer to arzas suitable for white settlement. In either case the Tanga line should be reached somewhere near Maurui station in order ta avord a new crossing of the Pangani river. The length of the line is estimated at 290 kms . and its mean kilometric cost at $\in 4,700$.
©from Maûrur to Sanya the Imperial through-line would coincide for over 280 kms . with an existing railway, which, though not very favourable from the point of view of loss of level betwerte Moshi and Maurui will fesult in a saving of at least 280 by 5,000 or rearly Er,500,000 capital on new construction without materiaxdy increasing the length of the whole tine.
"Such an alignment, furthermpre, would likewise continue the traditions of its southern- route by following almost throughout the relatively easy ground along the foot of the great scarps.by which the high plateantomens of East Africa break down the coastal foreland ; and it thould remain in climatically more favoured areas where syndicate development can supplement the production of a relatively dense Native peasantry. It would, in addition, form a very useful and badly wanted link from the Territory's administrative point of view, and perhaps even more so from, the point of view of a more efficient rail way organisation; a liñe, furthermore, the realisation of which would seem achievable within a short period.

## Comparison between the Western and Eastern-AIternatives.

" It is possible to summarise and compare the main technical and economic features of both. alternatives for an Imperial through-line :-
(a) Length-Broken Hill to Naitobi:-

Alternative
Total length
Kms. Miles New.c $\operatorname{In} \mathrm{T}, \mathrm{T}$
a) Western. (1) चià: Dodoma

Arusha
(2) viá Msagali-

Arusha
(b) Eastern
viâ Kimamba-
Maurui
> $2,430 \quad 1,510$

1,510
2,260
-
1,290
1,200
1,270
1,130
a (b) Siction and orates. The loss of level between Kenia border and Pa Chava in North-Eastern Rhodesia is estimated as follows:-
kms. 1,485 Western 7ria Dodoma $5,200 \mathrm{~m}$., or $3.5 \mathrm{~m} / \mathrm{km}$. kms. 1,465 Western viâ Msagafi $4,600 \mathrm{~m}$, or $3 \cdot 1 \mathrm{~m} / \mathrm{km}$. kms . 1,675 Ensiern via Maurui $2,950 \mathrm{~m}$, or 1.8 m km .
These figures are, of course, nothing but the arithmetical expression of the fact that the western line runs across the srain of the country, whitst the pastern, by making use of that remarkable diporathe main East African divide and by keeping outside the shattered rift belts, follows most ideally the lie of the land.

While the Dodoma-Fife line has been shown to require a one-in fifty ruling, grade for '\&achômic operation, the Kilosa-Manda liné, which traverses practically everywhere much flatter ground, can easily be built to a one-in-eighty grade., This easy grade can also be continued northwards to Maurui, whereas on the Rift, Valley section between Dodoma and Arusha one-m-fifty will probablyhave to reinain the ruling grade.
4. (c) Operating Cost.-For:ten trains per week in each direction, or approximately 1,000 trains per year, the influence on operating cost of reduced loss of level and of easier rulipg. grade over the 740 ( 760 ) kms. sections southef the Central Railway works out as :-
Due to loss of Tevel, 2,200 by 8.50
Due tờ ruling grade

"Additional aboy similar, savstiss in favour of the eastén line whr afo becmade oven quat least of the northern portion, but in the absence of sufficiently accurate data it is not af present possible to give definite figures. A conservative estimate, however; might put the total savings on operating. cost, over the whole line within Tanganyika Territory at $£ 60,000-£ 0,000$ for 1,000 trains.
"(d) Capital Cost (exclusive of rolling stock) :-

## Million $£$

I'estern line:-Total : Broken Hill-Nairofir ; .... 12.3
Eastern Tine.-Total : Broken Hill-Nairobi
$10 \cdot 3$
or $£, 2,00 \%$ on in favour of the eastern line-a saving Thhich will accrue entirely to the benefit of Tanganyika Tervitory finance, and which represents $£ 120,000$ less loan charges per annum.

## Pros and Cons.

(e) Dependencies Served. - Whereas the western alternative does not serve any part of Nyasaland except perhaps Fort Hill in a very roundabout way, the eastern not only runs for some distance through that territory, but would, asist admirably the large Native, monylation of Northerin. Nyasaland besides. ensuring, wraterake, easy passenger connections with its capital and commer cial centre. Whether the Zambesi Bridge is built or not, it is maintained that the natural outlet for Northern Nyasaland is Dar es Salaam, a view apparently shared by the, Hilton Young Commission (page 25 of theiz report)
(f)-Relation to Areas of White Settlement :-
"Areas exclusively served by the western line: Central Uhehe (ffunda-Sao), Mbulu.
Areas exclusively served by the ea $n$ line Northern Nyasaland, Songea, Upangwa, Ngur pountains.

Aroas better served by the western, but still economic ally served by the eastern line : Mbozi, Mbeya (both small and unimportant).
Areas served by both lines, but better by the eastern: Tukuyu, Ubena, Lupembe; Mufindi, Dabaga (ie., all the most promising settlements).
(g) Relation to Syndicate Development.-While the western line can only compete with the eastern with regards to the- Ubena, Ukinga and Mbeya areas of notential wool production- and the cotton plands of Mgororo, the latter would serve those areas partly better and partly nearly as well and would, in addition, traverse from Mamba in the Upper Kilombero to Hadeni, or for 6o kms, ground suited to a large, extent for plantation enterprise.
"(h) Relation to Natize Development. - Talking gener: ally, the Notive population in the economic zone of the eastern alternative is undoubtedly much denser than in the western zone And whereas the former would also largely benefit most of the better arcas setved by the Dodoma-Fife line leg., Udzungwa, Ubena. Ukinga, and Usafwa), the latter would in no conceivable way contribute to an efficient, development of such admittedly im . wortant districts as the Kilombero plain, Mahenge, Songea, Matengo, mountaine, Kondeland, 隹d Northern

Nyasaland. The few small oases between Dodoma and Mbugwe, which could only be served by the wetstern fine. are, in comparison, of very minor importance, and lie, furthermore, within economical reach, for high value Native produce, of the railways at Dodoma or Arusha. The capital cost of tapping, the Native population of the south-western area has been computed at $\Varangle 110,000$ in the zone of the eastern and at $£ 190,000$ in that of the yestern alternative, for every ro,000 people, or at a ratio of 1 in 7 in favour of the eastern line.
(i) Mineral Development. Of the proved areas for mining enterprise the Dodoma-Fife line would undoubtedly be the shortest conmection for the Lupa gold fields, though the fact must not be overlooked that a railhead at the north end of Lake Nyasa would materially improve communications with that field.
"The good proved coal near Manda and Songea, the great iron-ore deposits in Upangwa (which may one-day he of Imperiat importance), all lie within easy reach of the eastern altermative.
Should, Ws is strongly hoped, Tanganyika Territory be permitted to share in the rich future copper traffic from Northern Rhodesia, the eastern afternative alone could enter into competition with other-African railway systems serving this mineral belt.
"(j) Transhipping.-The western line has only one transhipping station, at the point where gauge. cthanges fróm metree to 3 ff. 6 in' a amoneme where for a. long, alnoostla if the Dodoma-Fife sectop shour abe ara, on.costye ertible sleepers

## Concluding Comparlsons.

The eastern line tue to its short lake secfion, has two transhipping stations, for produce from and to Nofth Eastern Rhodesia and for paspmetre From the latter's point of view, fuch a break in a long overland journey can only be looked upon as a pleasant change. That transhipping does not prevent traffic from patronising a route afflicted with this minerm has, it is believed; been amply proved nduring recent years by the Congo traffic which crosses Lake Tanganyika. The whole of Northyn Nyasaland produce, whether it goes south or east, has in any case to undergo transhipping. Besides, if transhipping is economically or ganised and equipped, its (largely imaginary) disadvantages can be made to take on süch infinitesimally small dimensions as not to require further argüment. All over the world wholesale transhipping is of such common occurrence in the carrying trades that one really need not worty over a single additional transhipping station in the heart of Africa. And if the worst came to the wopst there are stilj possibilities of 'a ferry service and of a through-line round the north end of the lake in the dim future, after the fashion of Lake Baikal on the great Trans-Siberian trunk line.

The foregoing comparison cannot be closed without draverentention to the following poett ot, obviously, primary importance. The choice of the western alternative would, once and for alt, establish a definite and unalterable policy by permanently excluding from the benefits of an Imperial through-line the vast regions of the real south-west of Tanganyika Territory, which lie south of the great mountain ranges apd platean blocks which a Dodoma-Fife line would skift on the therth.
"Selecting now the eastern alternative, on the other handj. would still allow of a postponement of the grave hour when the final word will have to be spoken regarding the füture of the country between the Great Ruaha and the Portuguese border in the south For this eastern alternative possesses at Mamba a temporary terminus ffom which extensions are possible in two directions: either via Manda or viá Uberia to Ilongo and thence along the western route to North-Eastern Rhodesia."

## "COFFEE GROWING"

## By J. H. McDonald

will be published next week. Copies will be sent post free to any address on receipt of $21 /$ - by East Africa, 91, Great Titchfield Street, London, W:1.

## SETTLERS' PROBLEMS IN KENYA.

## Views of sir Dantel Hall.*

It was only after the South African war and the opening of the railway in 1903 that settlers pene trated into Kenya. They began with pastoralistm, attracted by the great areas of grass upon the plateaux, grass which in manyderietsemains green the year round. But they lad not reckoned with the prevalence of disease, particularly rinderpest and East Coast fever, and they were perforce driven to agriculture, to maize and wheat growing, before the value of coffee and sisal had been established, Even sheep, which at first had done well in the Rift Valley, became infected with heart water after the Masai trek through that region, and for a tifle were abandoned.

Hence there has been very little time in which to establish a tradition of farming. The conditions $y$ - too, were unprecedented, One of the wisest farmers in the Colony told that he sowed"wheat every month in the year before .he made up his mind what was the proper procedure, Research takes time, and a settler who sees his crop endangered or his stock dying daily is apt to get impatient with a Department of Agrictitur which can propound no immediate remedy.

## 8topk Farming

 owing to the variety and virulence of the animal diseases that are there endemic. There are indeed few of the known epizootics which do not take their toll of tife stock in Kenya. The settler has to deal chiefly with rinderpest, East Coast fever, redwater and anthrax, and foot-and-mouth dispase, although the latter is a mild affair. The others are steadily yielding to investigation; their eradication is only a matter of time and care. But even wher à sound form of treatment is available its, application represents some expenditure, and Kenya stock farmers at present remain under a handicap compared witht their competitors in other countries like. South America And Austral where cattle breed and thrive with little or mo attention. It has been estimated that preventive-measures inf Kenya add $\AA_{2}^{2}$ to the cost of a tour-year-old beast.
Rinderpest is now dealt with by a process of double inoculation which confers practical immunity on the treated animals for their normal working life, and investigationis at Kabete give very definite promise of the possibility of replacement by single vaccination. Eisif Coast-fever cander controlled by dipping to deat the
tile ticks. The first necessity is the enclosure prazings to paddocks ecessity is the emclosure of the frequently as every third day stock, are then dipped as kilds the ticks before they can inoculate the cattle: Even tually the tick population of the farm becomes free from disease, since each generation of ticks has to be re isfifected by feeding upon a diseased animal. By this rigorous process many areas in South Africa have been freed from East Coast fever. Few of the settlements in Kenya arre yet fenced and paddocked, and one of the necessary starting points before the white grazing areas can, be clearred up is the erection of boundary fences where they bouder upon the Native reserves.

## Elimination of 8quatter Cattle Necessary.

Another urgent measure is the elimination of sauatter cattle in any stock-keeping area. In some districts settlers have already come to an agreement not to allow squatter cattle. Possibly legislation is needed to enable areas to be scheduled within which squatter cattle are forbidden when a majority of the settlets agree, and such tegislation may well follow the measures now under consideration for the formation of areas within which fencing and regular dipping will be compallsory. These steps are imperative if the country generally is to be cleaned up. This procedure is required by the agri: culturist as well as by the stock farmer. The maize grower requires work oxen, and though he can buy salted animals among which the mortality is small, it is desirable that the maize grower should become a mixed farmer keeping some kind of stock in order to make farmyard manure and so restore to the soil the humus of which it is so much in need.
Perhaps the most serious question is that of the breed to

* As expressed in an address to the Dominions and Colonies Section of the Royal Society of Arts on Tuesday afternoon. Mr. Ormsby-Gore presided.
adopt. Most new countries have been stocked with the British breeds, Shorthorns, Herefords,-Devons, etc. The only non-British breed which has attained world-wide distribution is the Dutch or Frisian black and white dairy cattle. The usual procedure in new countries has been to introduce pure-bred sires of one or other of the above breeds and by repeated crossings to grade up the herds to approximate purity. But where a epuntry owns a distinctive race of its own, more permaneńt résults are likely to be attained by selection within that race. This, argument is particularly applicable when the climate differs widely from the temperate conditions of England. The Native cattle of East Africa are of very mixed origin, in which Orientat blood has been" infused from early times, as may be guessed from the prevalençe of the hump; but they have acquired a-certain measure of resistance to the African diseases and for that reason alone they offer better prospects by selection than by crossing of building up a race suited to the country.


## Indoor DairyIng 8uggested.

Dairying, too, is making steady progress in the highlands near the railway, and a prosperous co-openative creamery is at work at Lumbiwa. It is worth considering whether many settlers could not avoid some of the risks of disease by keeping a small herd entirely indoors on the soiling system. Contact with ticks would, be minimised arid those, that wouldebinintiroduced in the green fodder would, be reqove sing. Of course, produce is high 'enough to pay for it.
There are considerable potentialities of extending sheep breeding, since it is now possible to control haart water by immunisation by the farmers with miteral supplied from the Veterinary laboratory. The drier plains and the Rift Valley will carryworinos, while the plateaux and higher country are move sunted to dual purpose sheep like the Romney Marsh. There are undoubted difficulties to be overcome. It takes some time to get the grassland fine enough for sheen ind ing districts they have to be rounded up and watched at night because of the leopards and other vermin... Sheep stealing, too, by the Natives is not unknown.
About 200,000 acres of maize are grown by white sethers, with a production for export of about a million bags (of 200 lb .)...The average yield per acre (abouff $i, 600 \mathrm{lb} \mathrm{H}_{\mathrm{j}}$ is not high, mainly due to factors whioh lie at the, base of the farming in Kenya. Sothe better return may be expected from improved varieties, the breeding of which is Just being taken in hand, but there is little reason to expect that new varieties will be created with a Fielding capacity markedly- in exeess of the standard American varieties now being grown
Progress has to be sought in soil management and cultivation. The normal red soils of Kenya other than the black land in the swamps and hollows, are: not initially rich in organic matset contributed by the natural vegetation turned in by the first ploughing very rapidly decays, owing: to the drap ness and high temperature which the soil attains at certain seasons of the year. Hence the hamus runs down rapidly. Soil erosion and washing is also markedly increased after the, land has thus been cropped for some time, It is, moreover, important to stop burning the stalkes, process. The general run of Kenya soils will not long tolerate this kind of mining into their fertility, and a stable system of farming depends upon the introduction of a rotation more conservative of fertility and capable of restoring humus to the soil.
One obvious step is the introduction of a green manuring ctop. There are many leguminous plants capable of giving a great bulk of herbage in Kenya, soya and velvet bean, cow peas, crotalaria,-etc., but sufficient experience has not been accumulated to decide which. is the most effective. Green manuring must also involve the use of artificial fertilisers. There is evidently an opening for some of the newer fertilisers now being manufactured with a very high concentration in the essential elements of fertility. Synthetic urea, for example, contains over $45 \%$ hitrogen, synthetic ammonium nitrate about $35 \%$, whereas sulphate of ammonia contains only about $21 \%$. and nitrate of soda less than $16 \%$.

## Coffee Problems.

The Deparment of Agriculture has devoted consider able attention to coffee problems, especially in the ento mological side, where three men are atmost wholly em ployed on coffee. Considerable expenditure has recently been incurred in an organisation for the mass production of a particular ladybirdswhich keeps in check the mealy bug that is the worst insect pest of coffee. 'However, it is necessary to push the defence measures further back and study the conditions of growth of the coffee plant

Coffee is generally regarded as requiring some shade.
and it is common to interplant the coffee bushes at somewhat wide intervals with a light shade tree like Grevillea robista. In other cases the shading is confined to belts of the Grevillea and other trees, while there are many plantations growing freely without shade at all. Experi ments are beingomade with artificial shade provided by slats of wood supported on wires above the bushes. In this way the amount of shade given can be adjusted and there is no draught on the soil moisture. Some observers hold that the crucial thingergestrue the ground by means of a surface cover crop.. It is pretty certain that the amount and nature of the shade required depend upon actors like depth of soil, aspect, elevation and rain fall, wrd that further investigation wilh show that no one method will apply to all cases.

Some evidence has been obtaifed that the growth and healthiness of the coffee after it has come into bearing are dependent upon the reaction of the soil, and that the incidence of disease can be correlated with the presence of an acid layer in the subsoil. This requires further investigaton, the outcome of which may be that the soil chemist will be in a position to warn settlers against planting. coffee in patticular soils. Further, the whole question of the use of fertilisers requires systematic study organdation far continuous investigation of coffee. Howeven seriously a Department of Agriculture may approach tbequestion, its technical officers, after they have acquired experience in regard to coffee, may be transferred to another Colony For this and other reasons the recent Agricultural Commission-recommended the formation of a special Research Institute for coffrer

One type of reseanh in connegion with coffee has not been-atterupred, yer ie: of fund anmentintinaportance; and that is breeding. Coffee bushes are raised always from geed, and though djstinct types of "coffee haverbeen segregated, e.g arabica, robusta, liberica, one has onty to walk through a plantation to see the great range of variation in the plants in such matters as habit of growth, pro ductivity and disease resistance. Here is clearly work for the plant breeder, who would begin by selection and trying out the best system of vegetative propagation, in order to obtain a plantation that is uniform for'high yield and disease resistance. It is becoming evident that the best way of combating plant diseases is by breeding immune varieties, though this is more easily attained in regerd to fuphoid than insect invasions.

## Native and European Labour.

Settiers who treat their Natives properly have no diffculty in obtaining an adequate labour force', in fact, it is generally held that any man who complains that he cannot obtain. labour has condemned his own management. It does not, however follow that the sources are inexhaustible. Hence setters should give close considerationtaking their Native labourevempandent as possible by instruction in the actual operations, by sprganisation, and by the use of machinery and evvery means of economising on sheer manual effort

There is another side to this laboưr question that demands consideration; whether it is not desirable to bring in British workmen to act as foremen and leaders to the Native gangs. Some settlers have done so with success, especíally where machinery is being utilised. To make a success of this method it will be desirable to afford opportrinifies for such men to acquire holdings of their own beginning on a small scale, that enables a large prongtion of the work to be done by the man himself.
A closer settlement scheme of small farms is already under consideration, but this scheme chiefly contemplates settlets coming straight from Britain into occupation of the farms: These men would be more likely to succeed if they had worked in the Colony for some years before starting on their own àccount $t_{2}$ These scbemes are opposed by many settlers on the ground that thev might lead to the growth of a. class of "poor whites." without canital to farm on their own account and unable to obtain employment such as is appropriate to the dominant white race. T hold that this view is mistaken. The "poor white" lases has arisen, in South Africa nrecisely because manual labour upoh the land has been ruled out by nublic opinion as a fitting occepation for a white man. If an aristocratic class is created that cannot be allowed to dig. some members of it inevitably will become nof athamed to beg. Agriculture fs and must remain the prime source of employment in Kenya, and if a permanent white popu tation is to be maintaned, there must be opportunities in the griat industry of the country for all sorts and conditions of men Some will rise ant some will fall, for thi. is nogeress and leadership assured
Limited is my experience has been. I can onls say that I. have seen few countrics more taking topthe farmer's fidence to cettling down and founding a family


A LIFE OF SIR HARRY JOHNSTON.

## A Creat East African Ptoncer.

The late Sfr Harry Johnston has never seemed to acquire quite his rightful place in public esteem among the great men who built the British African Empire. As an explorer, administrator, naturalist. writer, and artist he is known to the great majority of our readers, the the man himself has atways remained something of a mystery. In " The Life and Letters of Sir Harry Johnston"' (Jonathan Cape, i2s., $6 \mathrm{~d}_{\text {, }}$ ) $\because$ Mr Alex Johnston, his brother, and for thirteen yèars hìs private secretary, tears aside the veil and reveals the strong, ambitious, questing; and quench. less spirit of onge of the mpotmbiliontonfout race to live in and work tot 1 book is $\frac{1}{\text { I }}$ real, eontébution to East Africal history: and a most entertaining account of events long forgotten by the general public.
Sir Harry Johinsion, be it recalled, waş travelling as a freellance in the then datigerous regions of the Congo before he was twetty -ofur, was the first to see far enough into the fyture to coin the phrase "from the Cape to Cairn", was the original enunciator of the idea of African federation, was one of the first tọ anticipate whițe settlement in. what is to-day Kenya Colony, to envisage European planations on the slopes of Kilimanjaro; to detect Germany's African ambitions, and to realise the necessity of prompt action in Nyasaland and Northern Rhodesia if both German and Belgian schemes were to be frustrated. But even such achievements touchied only the fringe of his manysided life for he was one of the greatest linguists and one of the best naturalists which Africa has known, his paintings wére ascepted by the Royal Academy, he was a successful nóvelist, and he had the strength of mind to speak hisithoushts, whether acceptable of disagreeable, to men of high station who were too seldom shown the naked truth.

That habit, which had smialler resuilts for East Africa than would have been the case if 'some of our then politicians had been of stronger fibre, was his own official undoing, for some of the principal permanent officials at the Foreign Office, umaccustomed to and offended by such candour, and jealous of the undeniable brilliance of one whom théy regarded as an interloper in the Diplomatic Serviee, soon marked him down as a man to be curbed and perhaps shelved, How badly he was treated by the servants of a country for which he had run indescribable risk's is fully set out in this book: which also shows that Johnston, by contrast, never forgot unstinted service: on the part of white * or black subordinates; indeed, he inspired feelings akin to love among his Native servants, whom he well understood but whom he took care not to pamper and spoil.

As plucky as professional soldier when the need for military action was clear, a less soldierly appearance than that of Johnston could hardy be imagined. He fought, as his lieutenant Mr A. J. Swann wrote to East Africa couple of years ago, in a sailor's straw hat, and even in the thick of the fight the would hold above him bis beloved white umbrella! When warned by his officers that this
made a terribly easy mark for enemy gun fire, he replied that he feared sunstroke much more than the bullets which used to splash all round him; hundreds of times he had the narrowest escape, but - he was never hit, añid his Native troops, "firmly believing in his mvulnerability, and perhaps in the oriental inception of the umbrella as a mark of greatness, followed this guaint wim of standard up to and over stockades belching with gunfire. In the maddest ruishes nothing escaped the attention of the White Umbrella.'"
That quotation refers to his battles in Nyasaland, of which he wrote just forty years ago, when he first saw the Shire Highlands:-

In this little Arcadia, with mountains towering op to seven and eight thousand feet, there are sweet English. Tooking farmhouses, churches. cottages, roses, fat cattle, gobbling turkeys-a patch of England planted in Central Africa, a osight to rejoice poor. Livingstone's ghost if it ever revisits the hamesake of its birthplace (Blantyre). The air is Culof the sceent of haymaking.'

He choberas the site of his Residency the rugged and beáutiful Zomba district;
" which was much wilder fand therefore more inderesting to him) than the trim and ordered civilisation of the older missionary centre at Blantyre, where in early days the secular arm had been, ta much lfentifled with the
 a nolitical capital apart from the pre-existing religious one. It delighted him at Zomba to hear lions, and leopards in the night. One of the latter he sumped, together with"a number of other wild creatures. Another leopard he served up as steaks and soup at a Residency dinner paity, a aid wrote to Mr. (now Sir Alfred) Sharpe that his, guests found it delicious. No doubt they politely
said so said so."

An amusing picture of his ménage in Entebbe, when, at a later date the was Special Comimissigher and Commandertind Chief of the Uganda Protectorate, is given by the author of this fascinating volume :-
"At Entebbe Harry made a practice of having the baby elephant in to tea. It behaved with unexpected delicacy and good manners. It would help itself deftly to jam sandwiches from a plate, and theñ take its private milk bottle by the neck and poun the contents down , its
 Hourteous Spanish peasants drink wine when it is handed
rouphew. Only once did the elephante break crockery, and that Was when he butted the butler on account of some little difference of opinion. This elephan's'special chum was a zebra foal, and the two used regularly to go off for walks together. When the zebra did not seem keen elephant a ramble in its noontide hours of siesta, the elephant would wind his trunk round the zebra's neck
and tug. and tug.
used to the wink a large snake, nit near our front door. I used to think that callers were far less numperous and Less assured nd that Harry, was pleasantly aware of the fact, It was at Zomba, however, that. a lion of his play-
fully knocked two men downstirs, fully knocked two men downstairs, It may have received. a hint from a Blue Book (joyfully quoted by the Press), in which he complained of an incursion of tourists into Central Africa and theif use of his house as an hotel, even to the extent of their taking the Residency sponge
with them when they went away-spongeing with with them when they went away-spongeing with a vengearice!
"Leopard, without any pretension to be tame, were pretty frequen visitors to us in the Entebbe of those, weys
But the crocodiles lurking in But the crocodiles lurking in the wild garden by the lake shore were a more serious menace. A nefghbour of ours lost bis much prized cook, who failed to return after
having gone down to draw wate having gone down to draw water. On the following Sunday our friend went down to the take shore near our
house and shot a crocodile stomach wâs identified a black hand wit contents of its it which-had belonged to the missing cook.".

So fond of animals was Johnston that his caravan loaked like a travelling eircus. He could not bear to be parted from all his animals when on safari, so favoured monkeys sat perched on the woolly heads of porters and peered above the waving elephant
"His golden rule for breakfast white on the march was Spartan but wise. It was eaten with our loins girt, and standing, like the Passover, but never in company He did not think it a tactful moment for social intercourse. He had known more than one African expedition to have beèn wrecked by ill-timed attempts at conversation when tempers are at their worst: Afternoon tea Tras also a meal we took separately, as' soon as we had pitched our tents, and could rest and read in their green shade, thankful to be freed from most of our clothing.
"At dinner, on the other hand, Harry was inexorable on his travelling stáff appearing. in full evening dress, and the Goanese cook knew he was expected, like their dress, to remind the company of civilisation. Conversation and cards were then encouraged by the camp fire. Hyenas might be laughing like maniacs in the outer darkness; the tree-hyraxes be emitting their unearthly -screams above the incessant chorus of frogs and crickets; the hideous flying foxes or fruit bats might pass like evil spinits above our narrow circle of light ; our porters might. siogparbarically of love and of pumpkins; but this was our hour of home talk, of Europe, of mind rather than matter. Hence the significant symbol of the white shirt in the Dark Continent. The Press was quick to appreciate the meaning of Harry's table in the wilderness, realising that when white men abandon the symbols of civilisation in the tropićs they tend to lose its substantial and spiritual
any East African:
ctive book for $=\sim$ F.S. J.

## TREASURE OF OPHIK.

 Commander geswfued's Interesting Book Treasure hunting has ever gripped the mind of man, inspiring adventure and deeds of derring do, but it is not offen notion obsesses the mind of a chilid and becomes the moving spirit of his whale life Commander C. E. V. Cratufurd, R.N., is the exception, and it is indeed remarkable that from his earliest years he should hilve set himself to solve the problem of the Land of Ophiy. That he joined the British Navy was fortunte for his service brought him into just thase parts of the world likely to assist his quest and in his book. " Treasure of Cphir", (Skeffington, 18 s ) he tells the tate in fitfl.In spite of common report and the fact that Sofala was most probably connected with the land of the Queen of Sheba, there is neprofif that that patt of East Africa was the Land of Ophir spoken of in the Bible. Some have claimed Ophir to have been inge China, basing their theory on the assumption that King Hiram's fleet, sailing from the Middle East. must have voyaged as far as China in order to complete its three-years' cruise to Ophir. The GWhor has no faith in either of thése theories.
"I had fifteen years more of search, and seven further years of arranging proofs, before I was able to assert that Ophir is no longer a lost city", he writes, "and twentytwo years is but a tiny fraction of the time that Ophit has lain dreaming in the desert sands. Meanwhile, $\mathbf{F}$ has ain dreaming in the desert sands. Meanwhie have learnt that Ophir and the gold of Ophir represent far more than a lost city and a tale of rothance. The lost lands of Ophir may awaken the whole of the Middle East: they may bring prosperity to a a poverty-stricken peninsula that is larger than India."

What solution is offered must be left to the reader to discover. He will certainly enjoy the search with the author, and enjoy, too. the accounts of tife in the Navy and the anecdotes with which Commander Craufurd embellishes his pages. One hint must in fainess be given: Ophir is not located by the authorm any part of East or Central Africa.
The boek has been most capably edited by Mr Granville Squiers, to whom credk must be given for arranging the mass of material in a readable and appealing form.* As now presented it rivals "Treasure Island" for interest and thrill.
A. L

## THE LANGUAGE OF THE RED SEA NOMADS.

## A Useful sudan Vocabulary.

'Government officets, missionaries, and settlers who work in other parts of East. Africa must be grateful that fhe Native languages they have to lear re of the Bantu type and not the weird and wo , Hamitic dialects which fall to the lot of the a study of he handbook of the grammar, texts and vocabulary of "Tu Bedawie" (the correct"spelling requires a special fount of type), which has been compiled by Mr. E. M.. Roper, of Sinkat, and is published by Stephen Austin and Sons, of Hertford; at ios. 6 d .
"Tu Bedáwie foonstructive form of this pame is Bedawiet)," writes fhe author in his introduction, s' is the language ef the nomads of the Red Sea hills from Egypt to Kassiala. It is to-day the miost importank and the most. widely spoken of that group of languages of north-east Africa commonly called Hamitic. It has me script, and there is notrace of its ever having been written other than in IT is characters by European travellers during the past hundipd and fifty years."
. The alphabet employed comprises twenty consonants and eleven vawels, with ix diacritical: marks, and seven then-all the sounds in the spoken language are not represented the ${ }^{\text {and }}$ grammatical stric̣ture of " bhentanguage wetider from simple," writes Mr. Roper, and it seems fripossible to lay down tules which do not admit exceptions, And there is a further complication:-
"If you endeavour to speak and understand Bedawiet, you must bear in mind that the Natives are not in the habit of speaking it to, and of hearing it spoken by, Europeans. ...Tor instance, if you address a woman in the masculine in Bedawiet, she will not realise that you are speaking to her.'

Mr. Roper has evidently made an inteñsive study of this dialect and has produced a book which will be a tremendons boon to British officials in the Sudan. He-has consulted all the known authorities on the language and has spared no pains to make his, work of a high standard. He hopes eventually to produce a larger and even more accirate edition, and to that end he asks for criticism and notice of errors. The present rewewer disclaims any pretence to ticise; he can offer the rambinenly admiration-and sympathy
A. L.

## A GUIDE TO SOUTH AND EAST AFRICA,

## - 1930 Edition of Union-Castle Year Book.

THE 1930 edition-the thirty-sixth issue of The South and East African Year Book and Guide," published by Mesśrs Sampson Low; Marston \& Co., of London, for the Union-Castle Steatmship Company; at the remarkably low price of 2 s .6 d ., is wonderful value for moriey: In addition to its long-established features, the 1930 edition contains a new map of the central areas of Kenya and Uganda, and, for the first time, plans of African harbours touched at by the company's steamers. The sixty-four maps in colour constituife the finest atlas of South and East Africa of which we are aware, and for anyone visiting the area covered-the business man, the settler, the sportsman, the toufist, or the invalid-the book is quite indispensable. It will be sent post free to any reader remitting 3 s, to the Union-Castle Company's head office at 3. Fenchurch Street London, E.C. 3

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## PERSONALIA

Sir Edward Denham has reached London.
Sir Piers Mostyn has been visiting. Uganda,
Mr. E. B. Seex, A.C.A., is now on his way to Kitale.

Sir Alan Cobham left Cape Town last week for England.

The Rev, L. C. Wilson was recently married in Uganda to Miss Muriel Wood.

Mr: B. A. Crean, Resident Magistrate in Nairobi; has arrived home via the Cape.

The Prince de Ligne is, we learn, shortly returning to Lake Kivu from Belgium.

Mr. R. Paldwell, recently stationed in Tanga as an Assistant Auditórs biserinemen ferred to Uganda:

Sir Philip and Lady Brocklehurst, who have left for the Sudan, do not expect to return for Feglead until April.

Mr. S. B Jones, Assistant District Officer recently assumed charge of the Mwanza district of Tanganyika.

Mr. R. Davies, Assistant Civil Secretary, has been appointed Assistant Financial Secretary of; the Sudar Government.

Mr. W, B. B Robertson, M.C. recently stationed in Mbulu as Assistant District Officer, has arrived from Tanganyika.

Mr:E $=\mathrm{D}$ Matiet fias been elected Chairman of the East Africa Committee of the Manchester Chamber of Commerce.

Whe Hon William and Lady Beatrice OrmsbyGore have returned to 5 , Mansfield Street, where they will remain until Easter.

Sir Claud Hollis, Governor Designate of Trimdad, is to be entertained at dinner by the West Indian Club on Wednesday next.

Mr. J: P. Jones, Provincial Commissioner of Pemba, has been appointed an official member of the Legislative Couñcil of Zanzibar.

Viscount Ockham, who is at present in Tanganyika Territory, has, on the death of his father, succeeded to the Earldom of Lovelace.

Mr. Walter Osborne Stevenson, foreign general manager of Barclays Bank, has been elected a director of Barclays Bank (D.C. \& O.).

Mr. A. Chester Beatty has resigned his seat on the board of Nollinga Copper Mines, Ltd., on account of extreme pressure of business.

Mr. E. J. Wortley, until recently Director of Agriculture of Nyasaland, iss about to take up, his appointment as Director of Agriculture in Trinidad.

Mr. E. D'A. Sullivan, who has been acting as private secretary to Sir Claud-Hollis, has left Zanzibar on leave prior to the termination of his appointment.

Mr. W. B. Mumford, whe has done such good work as Superintendent of Education in charge of the Native school at Malangali, is on leave from Tanganyika.

Major-General Vesey John Dadwson, who has died at Henley at the age of seventy-six, served in the Nile Expedition of $1884-5$. He was heir-presumptive to the barony of Cremorne.

Lieutenant-Colonel W. T. Shorthose, formerly of the King's African Rifles; has returned to Jos, Northern Rhodesia, where he is on the staff of one of the largest tin mining companies.

Dr. C. T Doram, a member of the Native Affairs Commission of Sauth Africa, who wisited East Africa a couple of years ago, has been awarded the Columbia University medal for public services.

Gapt. Pf R. M. Mundy, D.SrO. M4C. of the South Wales Borderend\%asjopolntely Major and Second-in-Command of the $6 t h$ King's Affican Rifles on this recent arfival in Tanganyika Territory

Amongst receht ärivals from Bhst Africa are Mr . W. Andersen; Mr . and Mrs: N. Baldwin-Davies, Mr S. Beaumont, Mri and Mrs. A. Cairns, Mr. D. C. Fraser, Mr. L. Jones, and Mr. C. B. Wate.

On the eve of his departure from Zanzibar Sir Claud Follis was pointed by the Sultan to be a member of the first class of the Order of the Brilliant Star of Zanzibar. Sir Claud has now reached England.

Mr. F. S. Gibbs, the new British Vice-Consul in Beira, has served successfully in Genoa, Madrid, Rio de Janeiro Jaris, and Marseilles. His pre Recessor, Mr. A. Saterson, hà been in Beira for about two and a half years.

The departure from Beira for Durban of Mr. H. G. Harrison, of the staff of the Eastern Telegraph company, was marked by a dinner given in his honour by the Beira Sports Club, of which he was ohe of the leading members.

Mr. De F. G. Charlesworth, only son of Dr. Francis Charlesworth, formerly of Zanzibar, was. recently married at St . George's, Hanover Square, to Nessie Monica, daughter of the late E. B. Muspratt and Mrs. Edmond G. Concanon.

Mr. Hubert W.. Peet, editor of the Far and Near Press Bureau, has left London on a visit to America under the auspices of the Phelp-Stokes Fund of New York. He will particularly study Negro education and developments in the United States.

The engagement is announced, and the matriage will take place on February $I_{\text {, at }}$ the Cathedral, Nairobi, between Captain Richard L. G. Poole, son of Major A E. Poole, Military Knight of Windsor. and Ella, daughter of Mr and Mrs. H. Mayne, of Reading.

Mr．J．W．Allen，a director of Messrs．Longmans． Green \＆Co．，Ltd，，the Londor publishers，is about to visit East Africa in connection with educational business．He expects to reach Blantyre about May 1，Dar es Salaam about May 13，Zanzibar a week later，and Nairobi at the beginaing of June．

Nyeri has lost two well－known settlers by the departure for South Africa of Mr and Mrs． $\mathrm{J} . \mathrm{H}$ ． Twigg．Mr Twigg had beentin the Colony for the last twenty－five years，first as a white hunter，and latterly as a coffee farmer．Their estate has been purchased by Commander Herbert Schofield，R N

Miss Mary Hawkes，who is joining the Northern Thodesian nursing staff of the U．M：C．A．，was 4 ned at the Croydon General Hospital，nursed athe the War in France and in King＇s College Itospital，and later ran ker，own surgical nursing home．She holds the Queen＇s Eistrict Nurses＇ cottificate．

The engagement is：announced between Charles Whaty Gormley， 1
anger son of in wand Mrs．Thomas
． 3 tey，and stepson of Mrs．M．M．Gotmley，of
hmer，Kent，and Eileen Beatrice．eldest daughter
4．If and Mrs．John Sherborne．of thedatsit Manor
Sfamore，Oxon．
The engagement is announced between Robert Hugh Alexander Stewait，of Thurlestone Toy Kenya，elder son ond Mrs．H．M．Stewart， of Dysssryn，Dulwich，S．E $\mathrm{E}_{\mathrm{o}}$ ，and Gladys Mary Symons，of Asururiet，Eldoret，Kenya，daughter of the late Mr．and Mrs．R．H．Sympons，of Weymouth and Eastbourné．

The Fort Jameson branch of the British Empire Service．League has elected the following officers for 1930－President，Commander T．K．Maxwell；Sec retary，Major G．R Jefrey；Treasurer．Mr．W．H Jollyman Committee，Gommander Triggs，Capt A．W．Griffin，M．E．and Messrs，R A Barclay， G．R．Christie and W．McKay．

A marriage has been arranged，and will shortl⿱⺈⿸⿻口丿乚丶⿴⿱冂一⿰丨丨丁心 take place，between Hubert Graham Lawrence Nyasaland Civil Service，younger son of the late Captain Alfred Lawrence， 17 th（D．C．O．）Lancers． and Mrs Eawrence，of Chippenham，Wiltshire＂，and Margaret，widow of Richatd Wilkinson，Gatwiek Manor，Surrey，and Gandish Cottage，East Befg－ holt，Suffolk．

## BOVRIL

makes delicious bouillon， rich，tasty gravies；adds flavour and strength to all made dishes．

## Bovril is the Cook＇s best Friend and true economist in the Kitchen．

A 4 －Bottle of Booril mạke 128 delioions Sandwiches（size $3^{\prime \prime} \times 3^{\prime \prime \prime} \times 4^{\prime \prime}$ ）．

Un their return to Uganda from leave Lieutenant－ Commander R．J Jowitt，R，N．（Retired），has been posted to Mbale as Assisfant District Officer，and Méssrs．E．T．James，F．R．Kennedy F．W．John－ ston，and G．C．Whitehouse to Entebbe，Tororo， Jinja，and Soroti respectively．

Colonel Sir Edgar Bernard，K．B．E．，D．S．O．， C．M．G．，late Financial Sedgheytorthe Sudan Gov－ ernment，now of Billa Portelli，Malta，was married in Westminster Cathedral on Monday to Miss Vera Maria Gwendoline Wolseley Hobbs，only daughter of Major－General Percy E，F：Hobbs，Colotiel Com－ mandant of the R．A．S．C．
$\mathrm{NMr}_{\mathrm{M}} \mathrm{H}$ Wolfe，Deptry Director of Agrieuture in Tanganyika，who was wounded in a shooting acci－ dent in the Iringa Province a year or so ago，has now returned to the Territory A．Dar es Salaam correspondent writes that he has still to walk with a lirth but fres made a much better recovery $\bar{y}$ than the doctors had thought likely．

According to a Mombasa correspondent Mr ． D．S．Fraser，who has been appointed Town Clerk of Kenya＇s port，entered the fitidian Civil Service
 Palestine and Egypt，returned to India after the Armistice fof two and a half years，atid then re－ signed and took up farming in Southern Rhodesia，

The Nyasaland Tea Research Association has been formed with Mr．W．Tait Bowie，O．B．E $\mathrm{E}_{\mathrm{e}}$ as Chair－ man，Mr．A．E．Shinn as Vice－Chairman，and Mr． G．G．S．J．Hadlow．as Honorary Secretary and Treasurer：The Board of Control consists of the abave three gentlemen and Messrs．Barrow，C．F．S． Shaw，W．Morris－Scott Hayter，D．M．Dall，and H．B．Morton．

Mis Molly May，daughter of the late Rev．John May，of Kawimbe（whete she was born），has just left England for Northerushodesia to be married to Mrmaten H．Porritt，who for the wertion or more has been workirg at Kambole on the misśion． －tation founded and conducted by the Rev．J．A： Ross．．．Mr．Porritt is a son of the editor of The Christian World．

The appointment of the Hen：$P$ W．Perryman， C：B．E．，as Chief Secretary to the Government of
 Uganda，in succession to the Hon．R．S．D．Rankine，will give much satisfaction in a Protectorate which he has served long and earnestly． He is welt liked by all sec－ tions of the community，has a reputation for sound and systematic work，and the ap－ pointment，will be all the more acceptable because several recent departmental headships have been filled from outside sources when it was felt in official and unofficial circles．in Uganda that men who had proved their ability as Acting Directors might well have been promoted to substantive rank．Mr．Perryman first Went to Ugaida in 1908 as an Assistant District： Commissioner became Senior District Commis－ sioner in 1020．and Assistant Chief Secretary three years later．

## GROWING ESSENTIAL OIL PLANTS.

## "side-jine ${ }^{*}$ Crops for East Afrioa.

fy tos. per lb. is not at all a bad price for an essential oildistilled from an easily grown plant, but that is the sum "true lavender oil" was recently fetching on the market. Mitcham peppermint oil produced in England was quoted last year at from 105s. to ilos. per 1 b ., and a sample of the same skind of oil, from Mitcham plants grown at Molo, in the Kenya highlands, about sixteen miles sonth of the equator, longityde about $35^{\circ} \quad 40^{\circ} \mathrm{E}$., was thtis reported upon by technical experts in England:-
"The oil possesses a most' excellent aroma, quite free from bitterness, and a very high figure intdeed for menthol. . There can be no question that this source of supply should be an important one in the future:"

Planters in various parts of East Africa have for some little time been showing conșiderable interest in the growing of essential oil plants as a side-line or second string to their staple crop and a timely article in a recent issue of the Bultetin of-the Inper rial Institute deals moss helpfully withethis yery subject The chitef sum-márised:-

Varieties grown.
Peppermint. Mentha piperita var. vitaris: yielder.
Mentha piperita var. offinalis: "white minte smaller yielder, but firtef ©tif.
Mentha arvensis: Japanese oil.
Yields: Vary between fairly wide limits: weight of plant harvested, $3-1$ ton acre; oil, $8-12 \mathrm{lb}$,
 ánnum.
Prices (August, ig2g) inest, English Mitcham
per lb Best American American, órdinary
205. 6 d to 215 od $15 s .6 d$ to 15 s.
od $6 \mathrm{~s} .4 \frac{1}{2} \mathrm{~d}$ to 6 s .6 d
Soil: Any soil except heavy clay if well drained; charky soil said to give oil of high quality.
CCultivation; From "roots", (rhizomes or underground

* Stems), tibbled in in rows $12-15 \mathrm{in}$. wide and from V- $12-18$ in. apart In, America, "roots " orie eighth inch to in thick and from $1-\frac{3}{} \mathrm{ft}$ long are placed in furrows so, as to form a continuous line. Weeds must be kept down by hoéing as any strong-smelling weed collected with the peppermint crop may seriously injure quality of ait.

A'fter harvesting, beds are ploughed lover to divide runners and cover them with soil: This "gives a good " stand."
Manure: Sulphate of ammonia, is cwt superphosphatè, 2 cwt, sulphate of potash, if cwt., per acre. The pótash helps to prevent "rust dísease.
Harvesting: Just before flowers begin to open; cutting done with small-sickles or scythes; cut laid on beds to dry for a day or two; made up into cuct. bundles ard wrapped in Russian mats and taken to dis ${ }^{-}$ tillery, where it can be kept indefinitely, if thoroughly dry
Distillation: Whole plant distilled with steam, from$x$ preferably-a boiler with a perforated false bottom: if this is not used, material should not be placed in boiler till water is actively boiling.
Duration of plantation: Four to five years, best results in second year. After breaking up, land not used again for mint for some years.
Uses: There is a large and constant demand for peppermint oil, which is used chiefly in confectionery, for flavouring essences and dentifrices.
Note-Arrangements are being made, with the assistance of the Royal Botanic Gardens, Kew, to send plants for trial cultivation to certain Departments of Agriculture which have expressed inferest in the matter the samples of oil to be sent to the Imperial Institate for exạmination and valuation.

## Lavender.

Varieties grown: Lavandula vera (cultivated): English lavender oil.
Làandula-vera (wild): French lavender oil
Lavandula officinalis: also used for "true lavender oil," as opposed to "spike" oil

Lavandula spica or E. Latifolia: aspic or spike lavender oil : Southern Europe, esp. Spain.
Vields: Vary with conditions, but an acre should give from $2,680-3,580 \mathrm{lb}$. of fresh flowers yielding, say, 20 lb . of oil per acre.
Prices (August, 192gt:- a per lb.
Finest English "true " lavenderioil 150s. od.
French, "true"
15 s . od, to 75 s . 6 d .
Spanish," spike"
$3 \mathrm{~s}, 6 \mathrm{~d}$ to 4 s .6 d .
Climate : Moderately warm and dry; plants are injured by frost and wet ground in winter.
Soil: Well-drained, light loamy, esp one overlying chalk. In absence of chalk subsoif didp-dressing with lime or calcareous material advisable. $A$ rich soil shoudd be avoided as this tends to vegetative growth; the oil is distilled from the flowers.
Cultivation: By cuttings.:'young shoots, taken in early spring, planted $z$ in., apart in prepared beds. Any flowef which appear are remóved, until plants are set out in plantation in the autumn.
After being trimmed, plänts äre dibbled in, spaced 18 in . in rows 18 in ! apart; deeply and firmly planted with top 2 in, only above-ground. After a year in the field alternate plants and rows are to give a spacing of 3 ft . each way. The planting. up fresh land.
The continuous cutting induces a very bushy habit, which tends to prevent free circulation of air and encourages fungoid disease; thinting during dormant season is advisable. An
 ted dy whe toty fiowers of spike are fatio out and lowest have faded. (For dríed lavender spikes are cut earlier wherrmidelle flowers are out.) Must be cut for distifling when sun is shining to ensure dryness,, and must be covered immediately with Russian pats to prevent scotching 3 fermentation must be avoided
Distillation: Whole flower spikes with about 6 in . of stalk are distilled, in a modern still, for ahout 3. hours. Water must be soft, as carbonate of lime decomposes the oil, and still must be emptied after éach charge. There should be no delay in disriuling
Duration of plantations: Five years Land may be divided minto six areas, five bearing plants of sticcéssive ages white gixth is fallow for a year.
Uses: Laveeder oil is used in perfumery for toilet soaps and toilet requisites. It is one of the most largely used essential oils; demand is. regular and likely to be well maintained.

## 妾 "Coranian" (Pelargonfum).

Pelargonium or "geranium" plants have been grow for some time in Kenya Colony, and of the 450 acres now under essential .oil plants, 400 are planted With " geranium." That area is probably now increaseđ. Grasse, in Southern France, Réunion, and Algeria are the chief sources of supply

- Varieties grown. Grasse Pelargonium capitatưn (chiefly), P. radula yar, roseum. Réunion and Algeria : $P$. graveolens. Another ariety, $P$. odoratissimum.
Yields: Vary with number of crops harvested in year and with, oil content. In France, only one crop is got per annum : in Algeria, three crops a year after first year; in Réunion, cutting takes place all through the year
In Algeria, yield may be taken as 20.26 lb . of oil per acre per annum Yield of oil from fresh material varies from $0.1 \%$ to $0.2 \%$.

- Climate : Warm and sheltered plant injured by frost and winter rains, but-irrigation necessary in summer for full development of leaves. Non-irrigated land, however, may give finest oil. In Rěunion, plants grown at altitude of $1,200-3,500$ feet
Soil Deep, rich permeable, with plentiful humus and sufficient lime to keep soil sweet.
Manure: To be dug or raked in in autumn, after harvesting: superphosphate, $1,000 \mathrm{lb}$, per ac/le per annum, greatly increases oil vield.

Cultivation. By cuttings from strong, healthy plants with maximum leaf, cuttings of uniform size and quality in Algeria 10 I2 iñ: long. All or most of leaves are cut off with a knife, leaving four or five buds at end of branch;planted directly in field or in nursery beds.

Spacing varies; in France, rooted cuttings are put out 3 ft . each way, or 10,000 to acre. In Algeria, ${ }^{12}-15 \mathrm{in}$. apart in rows 30 in . aparts. Where rain is heavy greater distances should be adopted to prevent "rust."
Persistent hoeing and weeding essential.
Harvestäng: Crops consist of leáfy twigs, cat with sickles or sécäteurs, just before plant flowers when. leaves begin tó turn yellow and perfume becomes rose-like. Must be done in sunny weather to ensure dryness. Only woody portion's are rejected
Distillation: Green branches with leaves and flowers used; distillation for each charge, about $1 \frac{1}{3}$ hours: modern stills strongly recommiended,
Doviation-of plantations: Many yexars, if properly pre pared in first place.
Uses: In good and constant demand for perfumery, and its extension is being strongly advocated.
This information should be of real yalue to East African settlers, many of whom are, "we know, wisely determined triseek means of spreading their Tisks oyet seyet

## PERSOKAL ANNOUNCEMENTS

Private-not trade-manoofisements are now accepted by "East Africa" for publication"in this cotumn at the PREPAID rate of 3 . per word per insertion, with a minimum of 5 s per jnsention; three consecutive insertions for ihe price of two.nung ox No. advertisements there is an audutional charge of is. per insertion towards cost of forwarding replies. Advertisements reaching "East Africa," 91, Great Titchtield Street, Lovidon W. I, after Tuesday morning will not appear until the following week. Announcements will appear under such headings. as Births, Forthcoming Marriages, Marriages, Deaths, In: Memoriam, Appointments. Vacant and Requireă, Zand for Sale and Required,' Agencies Wanted and Offéred, etc. In Memoriam announcements can be inserted for five or ten years at special rates.

## HOUSE TO LET.

$\mathbf{B}^{\text {EXHILLL-ON-SEA. Furnighed house, four bedrooms, dining room; }}$ torms to he hen, garage, and tennis court, to be lico 91 Great Titchfield Street, London, W

## COMFORTABLE GUETST HOUSE.

NEWLY furnished Guest-house, quiet, confortable; terms from $\mathrm{EL}_{2} 2 \mathrm{~s}$.. per week.-76, Philbeach Gardens Liondon, S.W. 5 (five mins. Earl'e Court Station).

## RIFLE TOR GALE:

$R^{\text {IFLE FOR SALE. Rifle, Jeffery }}$ 404, good Condition: Maximum $R$ rounds fired twenty. In cass with 150 rounds and spare foresight. Immediate disposal for reasonable offer:-Write Box No. 197. East Aftica, 91, Great Titehfield Street, London W. W.

## POST WAMTED IN EXST AFRICR,

E, post in East Africs. Useful knowledge coffee and maize. Geeks with labour. : Keen. Apply Box No. 198, East Africa, 91, Great Titchfield Street, London, W.1.
"EABT AFRICA'S" SPECIAL CORRESPONDENT.
Capt. H. C. Druett, the Editorial secrotaify of "East Afrioa," who recontly arrived in Nairobt from London by air, may be addressed c/o 8tandard Bank of 8outh Africa, Dar es 8alaam, until March 7. Any readers In East Afriea who would like to disouss any matter with hire are invited to write him to that address.

## ARE N. RHODESIAN SHARE PRICES JUSTIFIED? <br> (Concluded from page 637 .)

not quite so appreciative as that of the admirable play!

Whilst there is no intention of criticising the values of such mines as N'kana, Roan Antelope. N'Changa, Mufulira, Chambezi, ete.- for some of their values in copper cowew arc phenomenal-the public should realise that there can be no hope of any sort of return on capital invested in these properties for a considerable time. For at least two or three years, and possibly longer, there cannot beany great export of copper from Northern Rhodesia, and meantime any capital lying in these mines must be considered a loek-up investment, earning, at best capital appreciation-and that must always be considered speculative until such time as a fair return of interest can place share values in their true perspective. Though such are the facts, macket puffe are constantly seeking to send up N.antwern Rhodesian share prices, which already điscotunt the future more thàn amply.. It seems high Iime for a halt to be called.
[A note on the subject of this articie appears under "Matters of Moment", in this issue.-Ed. *E.A.'r]

## EAST AFFIMN NDTAN CLATMS.

Mr: Biharilal Anantani, foumder and editor of The Zanzibar Voice, who left England seently to return to East Africa, told The Manchester Guardian before the sailed that East African Indians want a common electoral roll' bet, recognising the wide variations in the social status of the populations, would agree to any reasonable civilisation and property test which might be imposed. In brief, they wish to be treated as are their brethren in Ceylon: Fe.claimed hat there could be no possibility of the Indian community swamping the white community; since the Iñdians, would accept a civilisation test which while enfranchising quite $90 \%$ of the white people resident in Kenya, would not qualify more than $10 \%$ of the. Indians. Mr. Anantani described the Indian claim as one that character and capacity, not colour, should be therest of British East African citizenswipet

The resolutions at the Nairobi session of the East African Indian National Congress were how ever, much more militant.

W. \& R. JACOS \& COMPANY intitid, dusim, hagand

## LETTERS TO THE EDITOR.

## THE FIGHT AGAINST TSETSE. <br> Crass Burning Proved successful. <br> To the Editos of "East Africa."

Sir,
The interesting Pen Pictures of East Africa by Mr . Julian Huxley in your issue of January 16, and his reference to methods of exterminating isetse fly, induce me to place the following facts before your readers in the hope that they may assist in the fight against these pest's.
In 1897 I was appointed by the Foreign Office to the then British Central Africa Protectorate (now Nyasaland). In those days tsetse fly existed only in a small patch of country near Chiwata, and as there
2. were but a few Government stations and no settlers Native law *as in force. This laid down-that no grass should be burnt until everyone had collected (cut) the new thateff for huts, and this law was en forced by penalty of death or some similar severe punishment. As a result, no grass was burnt until about vithe end of October or the beginining of
 tinder, on a given daterwnumpery yestery winds were a daidy occurrence, at about midday the word went forth and the whole country was fired simultaneously. . These fires went on for day awd destroyed tsetse, trike, and other pests which now scientists are fighting.

As the country became sefted and opened up and the Natives moved out of their walled-in villages, the grass was burnt if patcheswwhen only partially dry in July or August. The tops only of the grass were burnt, leaving the undergiowthr, which would not be burnt until the following year. When later the rest of the country was burnt, the tsetse and other pests settled in these partially burnt patches where they lived and propagated in thousands. Now country which has always been clear of fly is full of it and the Natives, and planters are being driven out.

When the elephant mârsh near Chiromo' was a game teserve and unbunt except in patches by Natives it was full of fy. When the reserve was opened I was in charge of the Chiromo district, and determined to clear the country of fly. In the middle of October, I, with hundredegh Notives, fired the "grass" (which had been preserved) about noon from the hills to the Shire river, starting along the banks of the Ruo. The roar of the flames, twenty to athirty feet high, could be heard for a mile as they swept over plain and hill and utterly deströyed every fly. The plains were afterwards grazed by buffalo and other game and the country was thonoughly examined by medical experts, who were unable to find a single fly. The Government cattle subse quently fed with the wild buffalo and we neverolost a. single animal from fly.

Killing game will never eliminate fly. If the
? Government took the matter in hand, made it illegal for anyone to fire the grass untilofficial permission was given, a properly organised burning would gradually kill the fly and other pests suich as the carrier of East Coast fever. I have carried out many experiments during my twenty three years service, and always with success.

Yours faithfully,
The Constitutional Club, G. B Ritchife
Londoñ, S.W.1
The catalogue of the Royal Empire Society's library, which is about to be published, witl form a fairly complete modern bibliog raphy of the British Oversea Empire: The first volume is to consist of about 800 quarto pages, in double columns. and will refer mainly to the continent of Africa.

## THE CASE OF SULTAN SAIDI.

## A-Letter from his Counsel.

To the Editor of "East Africa."
Sir,
East Africa's leading article of November 28 is likely to create an impression that the learned Counsel for the Crown did not bring to the notice of the Court a section of the Procedure Code which might have been an answer to the lechnical legal point urged successfully on behalf of Sultan Saidi, As Counsel for Sultan Saidi, I deem it my duty in fairness to he learned Counsel for the Crown to dispel any such impression created by the said article.

In all appeals the appellant. generally addresses the Court first. A's Counsel for the appellant, 1 goened my easew. I had hardly begun my address when I was asked by one of the judges whether Section 537 of the Procedure Code would not cure the irregularity. Before it was Mr. Mosley's turn to address the Coutt the applicability or non-applicability of Sedtupn $537^{\circ}$ was discussed by the Bench with me

I have no doubt that Mr Mosley had considered the applicability of Section 537 to the point in the case and agreed with the learned judges that it did not apply. : It was a peritoraised by vieBench, and the. Bench was conifnced that the sectork did not apply and wisely did not refer to it in their judgment.

Mr. Mosley is , highly esteemed by practising thembers of the Bar as one of the most impartial, fair, and capable Crown Counsels.

Counsel fights his case on materials placed before him, and it is a pity that the comments of His Honour Mr: Justice Gour on the manner in witich the case was conducted at the Sessions Court at Tabopra have not been recorded.

> Dar es Salaum. Yours faithfully.
[Mr. Master, the barrister who defended ex-Sultan Saidi, thus endprses East Africa's contention that the public should be given more information about this strange case. We hold that all the papers, including those of the preliminary inquiries, should be made available, and, now that the unofficial members: of the Tanganyika Legislative Council have refuse to press the local Gpernment, welat some member of the Thouse Oommons will take up the matter and demand adequate explanation The grant of a pensionof fio a month to Saidi sfrikes us as ludicrous.-Ed," "E:A."

Mr. S. HT E Hawtrey, now of Dar es Salaam, sustests that the postal authorities of Southern Rhodesia should cancel all letters going oversea with a slogan adyocating the smoking of Rhodesian tobacco and cigarettes, thus emnlating Kenya's example in st advertising Kenya coffee.

## BRAITHWAITE'S PRESSED STEEL TANKS ARE PROMINENT IN EVERY CONTINENT <br> Can be erected on steel towers or at tround level, in sizes from 220 to over 2 million tallons. <br> Quickly and economically tranaported; the unit plates packing closely in bundles. Speedy, simple erection (unskilled labour will do). Capacity for extension.

## DOES CATTLE-DIPPING PREVENT MALARIA?

## An Old 8ettler's Experience. <br> To the Editor of "East Africa.

Sir
Twenty-six years ago I lived in places where we all got fèver and bláckwater and quite a few died. Lately I have had occasion fo revisit these places, and the people there told me they do not use nets now as it is unnecessary. For the last few years I have been living in what was once one of the most deadly parts; we seldom use a net, yet we never get malaria and are always fit. After studying the problem we could only come to the conclusion that dipping the cattle was the cause of the malaria dying out. Even the Natives noticed it. In one district the conditions were perfect for a共. malaria epidemic before dipping was introduced; after few years of regular dipping there was still fever but a wonderful difference in the health of the Natives, especially of the womenfolk and children.
In fourteen-day dipping there is no appreciable difference in the number of mosquitoes, but when the cattle are dipped there is no mand out of their coats. there is a decided lessenting of mosquitoes. But cattle dipping is too uncerrtain in its action and will always be only a partial helpon zbe war on mosquitoes, for one thing, just affer dipping, the cattle may get washed clean with a shower of rain and then they are Rarmless to mosquitoes. For another, the cattle kraals are often too far away from European dwellings, to be any good, though for Natiyes it is differeme the cattle are always in the back yard. It is a fact that, Natives improve in health in the malaria season in districts where dipping is enforced and where previously they used to go down practically en masse with fever. When the rains are continuous and cattle cannot be dipped, there is an increase of malaria among Natives; but soon after dipping can be resumed there is a marked decrease in the disease.
As I recogrused that depending on the poison carried by the cattle was a vert uncertain method, and as we happened-to be far away from a dipping tank, I put down dryms filled with a weak solution Minf arsenic around the camp, wit the happy reqult that after the first few days the we we no longer any mosquitoes. The drums were covered with wide-mesh fowl-wire netting to keep. animals from being poisoned.

From my experience I suggest the following as a way to combat the mosquitpes:-

Make a weak solution of arsenic in water-quite a weak solution will do; cattle dip is not so effective as it has a strong smell. As mosquitoes prefer shallow water in which to lay their eggs; the most effective trap is a petrol tin cut in half and containing from three to six inches of the arsenic solution.
4. Place the tins on the grount level or at most thirty inches above the grouth in places round the house and the Native quarters-especially the latter-in spots well sheltered from the wind for mosquitoes dislike wind. Cover the tins with coarse fowlnetfing; where necessary the tins can be put in high wire netting enclosures without a gate and filled with a pipe and funnel.

I am sure I am on the rigfit track, and I will make this statement: Given a free hand, I will màke any unhealthy tow a healthy and trouble free place in three years with my poisoned-water method at a very small expense.

[^3]
## HOME MAILS FROM ARUSHA

Need for Better Information.
To the Editor of "East Africa."
When visiting Arusha from Nairobi last week I was struck by the absence of any information whatsoever regarding the departure of English mails from the coast. Mails leave Arusha each Wednesday and Saturday, and I feel it would be helpful to the busiriess man here to wind whether a letter posted by either of these mails is, likely to be held up at Mombasa for a number of days, or whether it will leave immediately for Home on its arrival at the Coast. Doubtless if the point could be brought to the notice of the authorities in Kenya and Tanganyika the Arusha and Moshi post offices could be kept informed of the departure of English mails.

$$
\begin{aligned}
& \text { Yours faithfully, } \\
& \text { Arusha, A NAIROBI Business Man." } \\
& \text { :Tanganyika Territory. }
\end{aligned}
$$

## STIMULATING THE USE OF EMPIRE TOBACCO.

, To the Editor of "East Africa."
Sír,
Mr . J. H. Thomas is to be congratulated on getting the British railways to acfept his suggestion for the use of athel sleepers. What about the telegraph poles next? But, to come nearer to this distressed area; will Mr. Thomas ask why more Empire tobaceo is not being sold? The import figures into Great Britain show Empire tobacico to represent only $8.4 \%$ and foreign tobacco $8 \mathrm{r} .6 \%$. Here is great room for improvement.

Yours faithfully.
Fort Jameson.
Distressed Plánter.


To enjoy glorious health drink delicious "Óvaltine" witb breakfast instead of tea, coffee; or cocoa, as a mid-morning beverage and last thing at night to ensüre peaceful slumber,
No other food compares with Ovaltiner for building up and safe-guarding that priceless quality Good Health. Here is the reason :-

* One cup of "Ovaltine" supplies more heaith-giving nutriment than 12 cupfuls of beef tea or. 3 eggs.
"Ovaltine" is: the best daily food beverage for people of all ages. Delicate and rast-growing children, nursing mothers, invalids, busy workers, dyspeptics , and the aged derive more nerve and body building power from "Ovaltine" than from anyoother form of nourishment
OVALTINE
Builds up Brain. Nerve and Body
Sold by all Chemists and Stores thirowghowt the British Empire Manufactured by A. WANDER, Ltd., London, S.W. 7


## WHITE CHHDREN IN TANGANYKA.

## The Problem of the European Child's Education.

Tanganyika has been fortunate in its first British Director of Education, Mr. Rivers Smith; whe has done good work in organising a system of Native education which; founded on sound priaciples and informed by his long experience in Africa, is bold in experiment and inspired by modern ideas. . He has a good staff (twenty-two of them hold University degrees and several have special diplomas), and his reports are thoughtful and able, but the searcher for information concerning the provision made for the education of the increasing number of European children finds much to seek
The 1.928 Report (Government Printer, Dar és Salaam, 2s. 6d.) states that there are 898 European ie children ini the Territory, of whom 468 are boys under fifteerwand 430 are girls under fifteen: British children number 312, German children 256 , South African Dutch 191, and Greek 88: Of the 191 Dutch children no fewer than 178 are centred in Arusha, which should make provision for them easy? of the. British 63 are in the Tanga Province, $63^{\circ}$ in the Northern Provincer (28.5itainchand $35 \sim$ in Moshi), 74 in Dar es 1 soboreore of in Mwanza, and in Tabota, 70 of the German youngsters live in the Tanga Province, 56 in Iringa, 49 in the Northern Province, and 20 in Dit; es Salaam; while in Fitsheto and Pangani are too be found io Russian and i8 Swiss children of of the total of 39 of those nationathres.

## An Unisatisfactory Position.

Turning then to the exhean educa: tion, the readersfinds to his astonishment that in Dar es Salaam the Junior School, Which was opened in September, 1927, and was taken over by the G̣overnment sone months later, has an attendance which has fallen to 19. The Convent School of the Capuchin Fathers, which was opened in July; has on its? rölls 45 Européán children, 11 Syrians, 11 AngloQ Indians, and 42 Goanese; ten different languages are represented in the school, and the language of Instruction is Englishy though the language question is complicated. In Tanganot more than fourteen children have been on the roll of the small junior school which was organised by a committee of tadies The Bishop of Centrat Thangonyika, who is taking an active interest in the education of European children, ath has brought a schoolmaster with him from Australia, has begun work at Ngare Nairobi and is showing commendable enterpfise, which is, however, rivalled by the Germans, who have established their own schools at Mtumbi (Lushoto) and Lupembe - (Iringa), and are setting up another "school in Lushoto. The new Dutch school at Ngare Nanyuki has been completed, but otherwisé no prógress has been made.

- Nowhere in the Report is there any indication of the curricula adopted in any of the European schools, of reports from headmasters, of information, in fact, of the very points which anyone interested in this important topic would wish-progress, games, effect of climatic conditions on health and intelligence, school equipment. hours of study-all points of vital interest to any European with a young famify taking up an appointment in the Territory.


## Unfavourable, Comparison with Mative Reports.

All this compares very unfavourably with the excellent reports full details given of Native education. Eaeh of the twenty-two Government schools has its Superintendent, a fully qualified European; detalls, of the teaching are given, industrial education is fully dealt with, mission school reports are summarised, and extracts from headmasters' reports are printed. Major W. E. H

Seupham, M.C., District (ffieer, writes in intertst ing' account of the Nzega Native Administration School, and the Bishop of-Masasi sets ont the present educational needs of the Lindi Province. It is all very admirable, but it serves to emphasise the contrast between the time, money, brains and energy spent on Native education and the meagre Fattention paid to the needs of the unfortunate European children.

The Nzega school opened on January $1 ; 1.928$, to provide suitable education for thogereessews of the sub-chiefs and headmen of the Nzega district, aims at maintaining a proper balance between the purely literary side of education and practical training in work directly related to the everyday life of the com-munity:- Principles of Native administration are taught, mainly by the organisation of the school itself. A School Court, with a local chief as president, tries offences against conduct and discipline, the procedire adopted being an exact replica of that in force in the Native Courts. Thie 154 bays in the school are divided into "villages" according to their classe Each willage consists of six huts and is named af the clan which resides in it. Each hut is in cliarge of a baba, who is responsible to the managwa or head bay of the "village who, in turn, is responsible to the mtemi; or head of the school.
The idea underlying this schoal is thus very like that at Malanigali $2 n$ whist Eist Afrifa has already commented favourably. There the aimis to develop a Nrtive educational system based on Native custom, with such modifications as will fit the individual for the social and economic changes which mast follow on increasing contact with Europeans.

## Eductation of Native Éris.

Of education for female Natives perhaps the most notable is the Leipzig Mission school at Moshi. which is being organised with the most careful règand fôt tribal custóms. The tradition of hard work for the women is well maintained, says the Report. and is reflected in a daily routine which is almost Spartan.. The first batch of girls appear to have suffered somethirig of a shock when they discovered that school did not emancipate them from the normal agricultural activities of the home. The headmistress in charge sets a personal example in eyery kind of own activity-but what will somp of our cranky legislators say and do if ever they heararostich a school?

## IMMIGRATION INTO UGANDA.

* H $^{2}$ a recent session of the Uganda Legislative Council the Hon. Dr. H. H. Hunter asked what steps were being taken to prevent persons withont visible means of support, or likèly to become a public charge, from entering the Protectorate.

The Acting Chief Secretary replied "The question of enforcing more strictly the existing:immigration regulatipns is one which has been engaging the attention of the Government for the past two years. It has been decided that the expense of adhering to the letter of these regulations, which would involve, among other measures, provision for barriers across motor roads and officers to supervise them, would be ont of proportion to the benefit which might acerrue and the Protectorate must, in the main, be dependent upon the scrutiny of immigrants which is carried out at the coast ports of Kenya and Tanganyika. It is considered however, that the position may be improved by appointing the Commissioner of Police as Princinal Immigration Officer and the maintenance of a Central Registry of Immigrants ant by the enactment of legislation requiring employers to make periodical returns of non-Native employés."

## HOW AND WHEN TO TOUR NYASALAND.

## May, June, and July best Time for a Visit.

THE importance to Nyasaland of improved com munications is emplasised if the latest report' re seived from that Protectorate by H.M. Eastern African Depeñdencies' Trade and Information. Office in London. In that document we read:-

Most topics and problems, in the Protectorate resolve themselves eventually into the question of communications, and with the decision to make the road between Blantyre and Salisbury viâ Tete an all-weather route the question of Nyasaland as a country for tourists deserves consideration. It is said that several persons would have come by air if a suitable landing ground had, been available, and this question is being investigated with a view to making one near Limbe. Arrangements are also being made to provide a landing stage for motor cars at Mwaya, at the north end of Lake Nyasa, so that by way of the Lake the Nyasaland road system would be linked up with that of Tanganyka Territory and the north.
"The best months of the year for toutist traffic in Nyasaland are Max June and Juty In August it is apt to be hap eather begins to get warm and the sumerotut grass fires obscares the scenery. - During the best time of the year the scenery of the Shire Hichlatids is well worth a visit. *

## Hotels in the protectorate.

"The road from Salisbury to Blantyre can be done in two days, bat more comfortably in three. There are good hotquintoko, in, Southern Rtiodesia, nipety six miles from Salisbury, and at Tete, in Portuguese East Africa, 244 miles from the same place. At Mwanza in Nyasaland, 330 miles from Salisbury, there is a rest house where accommodation can be obtained. The whole distance is $38 \%$ miles.
"A road is also under construction between Fort Jameson and Tete, and when this is complete it will facilitate very considerably a circutar tour through Tete Nyasaland, and Northern Rfodesia, and back by the western route.

Hotel accommodation in the Protectorate is available, at Limbe and Blantyre, and at Zomba ahout 40 miles away. The at Dedza, 129 miles from Zomba. Accommodation is available at Lilongwe, 56 . miles beyond Dedza, and at Fort Jameson in Northern Rhodesia, which is 94 miles beyond Lilongwe. There is also a hotel at Fort Johnston at the souith end of Givin Nyasa. The round trip on the lake takes about two weeks.'


What is believed to be a case of finger print practice unique in the history of the method in Fast Africa is related in the 1928 Repert of the Kenya Pofice O O artment

The body of an African was discovered on the Meri road some seventeen miles from Nyeri. He had evidently been murdered, but no one had been reported missing and no ole $\operatorname{Hns}$ कentity existed: Death having taken place apparently a week before the discovery, the corpse was unrecognisable, but the Assistant Superintendent in charge found that the skin of the top of the left thumb was still sufficiently preserved, and despatclied that fragment of the unfortunate Native to the Central Finger Print Bureáu. Ori arrival it was found to be in a decaying eondition and too hard to manipulate; so ; after being photographed, it was forwarded to the Medical. Laboratory for treatment. There it was rendered so pliable that good impressions were possible by folding the piece of skin over the left thumb of an aposator. Photographs of these impressions. having been taken, the records of the Bureau were searched, and out of the million of these the idertity of the Native was ascertained within hirty hours. Identification particulars were telegraphed to the District Bolice concerned; who ${ }^{\text {Wraced }}$ the movements of the dectwd and arnetud. He mirderer in about twenty four hours./ He was convicted and sentenced to imprisomment for ife.

## TANGANYIKA CHALLENGES POSTAL PACKETS.

## Natives not Fond of Post office Work.

IT is no doubt annoying to have a postal packet challenged and assessed for duty, especially if one lives out in the blue and much delay ensues, but as the law in Tanganyika Terrítory now stands the alternative would be to prohibit the importation of dutiable artictes by letter post-a proceeding which would cause far greater inconyeniefice. From the Annual Report of the Posts and Telegraphs Depart ment of Tanganyika Territory for 1928 (Government Printer, Dar es Salaam) we learn that during that year no fewer tham s.ay9 postal packets were chatlencedsthecequarters of them were frinniminde to duty, and the amount collected on them was Q669, or £105 more than in 1927.

Native Africans do not seem to take kindly to Post Office work : 128 are at present so employed. of whom- 71 are telegraphists and one is a wireless operator; but in the accounting branch it was decided to limit Africans to the simplest duties in the telegram clearing house, as trials over an extended period showed that this is, at present, the limit of their economic employment. "The African with any pretence to education," says the report. " is not attracted to the outdoor dutjes of the Post Office, and the staff is still largely composed of illiterates."

Motor transport still lacked the reliability that is so great a factor in a satisfactory mail service, and has yet, in some cases, to prove itself superior to Native runners. The wireless station handled 2,74i messages, and experiments carried out with a portable wireless set of 100 watts resulted in effective speech being transmitted from Dar es Salaam to Mombasa. The number of reeeiving licences (which are free) at the end of the year was thirty-one, of which thirteen were issined during ig28.

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## Camp Fire Comments.


Marriage and Motor Cars in Afrioa.
It is poissibte that the notor industry in Great Britain does not adequately realise the great part motor cars play in the social fife of the British Colonies ând Dependencies. British manufacturers accept the fact that in the United States of America workmen drive to their jobs in motor cars and that eyen a coloured "cook-lady" has her own Ford; but do they know that in Natal, to quote only one finstance, no young man is considered efficient without a motor-cycle, and that -1to self-respecting git will nifrry a man who does not possess motorcar of his own? We doubt it; but the information is given on the very best authority... Evidently there is ino prospect of the "saturation point" being reached yet in the Colonial market, and it is for British manufacturess seite the chatice before the Amefican Arms's

## Devflöplng the Native Markety in Africa:

A good example of the determined efforts which are now being made in certain quarters teast, to develop the immense market offered by the Native population of Africa, Wers given by Sir Charles Stmith last week at the Vintners Hall, There were he said, $7,000,000$ Natives in Natal to $1,850,000$ whites, and the Assout which he is President (which is interested in sugat) is making up parcels of sugar of a convenient size and selling them to Witives at a very cheap price in an ondeavour $f 0$. he f P the industry to tide over the present bad times. due to the fall in sugar prices and the threatened removal of the British preference for sugar The Sudan now measpres its prosperity by the ingrease in the consumpfion of sugariby its Native popula. tion, and though sugar is not yet a staple of East Africa, the enterprise of the Natal stgar industry in exploiting the Native market an example which can be followed with profit in other lines.
"I have never liked goats," writes a subscriber, for when I pas a child an old Billy of that breed haunted our end of my home yitkage and never missed a chande of ehasing me. He became, at last. the terror of my life, I liked them even less.wfiew in East ffrica in later days 1 had ta feed on goat flesh masquerading as mutton chops-horrid stuff, You can imagine, then, how pleased I was to see the beasts getting a proper ticking off from two authori: ties in your issue of January 23. Sir Daniel Hall declared that: .The goat destroyed the fertility of Greece and other Mediterranean regions, denuding
the hillsides and washing the soil into malarious swamps in the valley; this process is rapidly being repeated in East Africa, while Dr. T. F. Chipp, the Assistănt Director of Kew, has discovered that goats are endangering the very life of the gumtappers of Kordofan by eating the baobab seedlings which should beeome the water storers of the future. I knew, of course, that goats had done irremediable damage in oceanic islands by killing off the unique indigenous flora, but I did nore realise that they were a world menace.

## A Record Llon.

The record for lion given in Rowland Ward's 1928 edition of "Records of Big Gatne" is 10 ft .7 in . Mr. G. W. Wepton sent, last year, to The Illustrated Sporting and Dramatic News a photograph of a Kenya. lion whifch measured (the lion, not the photograph) 10 ft .8 in . Now Mr. Do I. Gray, of Honitoñ. Farm, Nega-Nega, Northern Rhodesia, has written to the same fournal pointing out that lions over II ft in length are common in his, district. He backs up his statement with a photograph of a lion Thff. 2 in. shot by his som, Jack Gray, adding that one shot in the Namwala area of Nhodesia was If ft .7 i . from nose to tail. This is yety easily the record; and as the measuring appears to have been parefully and properly done from thitearest inf ut the skin, and by the method set out in Rowland Ward's book, it must bé accepted. . But such a wide difference betweenthe size of Kenya and Northern Rhódesian lions needs, confirming. It is 3 point which seems to haye eseaped the notice of the many game hunters who have shet lion in-East Africa.

## Why ls the Grey Parrot Grey? *

Among the many puzzling points in the great problem of fhe coloration of antmals istive greyness of the grey partot "Most \& the parrot tribe are green' a colour which one asstumes to the correlated with their mode of life in trees, where greenness naturaly makes them inconspicious and acts as a protection. But the grey parrot also spends most of its time in trees, feeding on palm nuts and other fruits though they are very fond of grain and starofy sheds, raiding Native, gaxdens to get them. In these habits their grog colour can hardly be considenpidete harmonise with their entinethinute, on the contrary, ome would think it made them distinctly efispicuots. Some inferested persons have suggested that grey parrots nest among rocks, where their colour would probably be a real protection while nesting, but Mr. Gr: L. Bates a most competent observer and a lifelong student of tropical African birds, definitely states, in his new book; that these parróts "perch high, and have certain roosting places to which many resort at evening. They prefer openings and clearings in the dense forast, and breed in holes in the very high trees always left standing in clearings.". Which leaves the problem of the greyness of the grey parrot'still unsolved.

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## East Zfrica in the Press.

## -

## WHY THE PRINCE LIKES AFRICA.

Writing in The Daily Chronicle on "Why the Prince likes Africa," Mr. W. J. Makiñ, who accompanied him on his official South African tour, says:-
"The Prince is not a head hunter. I once spent a week in a hunting camp in Rhodesia with him and his staff, and the one person in that camp who was not seriously interested in big-game shooting was the Prince of Wales. True, he went out one day and stalked a fine wildebeeste for several hours, eventually bringing it down with a shot at 150 yards range. It was a clean shot, through the heart But this kill completely satisfied the Prince. He is not keen on slaughter with a modern express rifte.
"He delights much more in the routine of camp life. To wander through the African bush during the day, dressed in an old coat, shorts, and a sun helmet, and then to refurn in the evening, his face burnt brick red, after a tramp of many miles, is, for the Prince, the ideal holiday
II camp at nightoherinnerne biggest of fires, strummong a uno songs with his companions, Give him this perfect atmosphere of, a night in the bush, a fire with the sparks fighting the stars, and a few companions lolling round 4 . Depend upor it, no one will seek his bed until, adfey whight yet the Prinee will be up and tramping through the bush again as soon as dawn causes the first Native to rub his eyes."

## TROUBLES OMSWSAPER.

IT is not easy for a newspaper fo write about itself thout risking the charge of egotism, but Xorthern odesia's'only journal recently accomplished the task with good humour and complete'success. In the course of a leading article on plans for itsextension it was stated:-
"The Luvingstone nfail came of age nearly three years ago, and, appiopriately enough, became self-supporting How many, times during those earlier years its parents decided to abandon it but proved infirm of purpose we cannot now recall. It was a tröublesome infant, an embarrassing youth, and now threatens to become an obsession-it demands service that almost amounts to Whery, Like most lads, once thes अuteome self-support ing, it contributes nothing to its paretits. Every penny it earns is expended in supplying its needs, and it continually cries for moze.
"It has just been supplied with a new-set of machines, more becoming to its age, and now-it demands two issues a week, with a supplementary hint that even these ${ }^{3} f_{8}$ regarded only as an instalment Dark references restricted accommodation and inadequate ministration multiply. New features are demanded: sport, motoring, book reviews, district news, illustrations, the ladies are insufficiently catered for, and we are sternly admonished to look to it. We have long sympathised with the creator of Frankenstein.
"Our trouble is that the budding monster has justice on his side. Did we expect him to remain a baby, or even a child indefinitely? Very well then more suitable attire, pocket money, and even a latchkey Something will have to be done about it and, with a heavy sigh-for we are constitutionally lazy and averse to change-we have conceded his demands. and made a beginning to fulfil them. In less than a month the first mid-weekly edition wiH appear-mid-week, hecasre the mail service compels him to ignore calendars."

According to the current issuc of the Kenva, Church Rearig the congregation at a certain Harvest Festival sefvice in this country last autumin was strongly recommended not to buy Kenya coffee "because of the conditions nnder which it was produced "!

## TANGANYIKA'S ANTI-TSETSE CAMPAIGN.

Commander Bernabl Acworth, R...., writes to The Times :-

Professor Huxley says the tsetse fly is painted with three spots of paint, whose position and colour indicate the place, day, and hour of its capture, and then released. By this means we shall learn how fär and how quickly fly stray from one locality 50 another, and whether they behave differently in different kinds of bush and different kinds of weathé Professor Huxley of course appreciates that a tsetse fly on the wing, like, a bifd, an aeroplane, or an airship, is absolutou monasitical to the air in and on which it is borne. Accurate observation of the time taken between two spots..cannot surely, therefore, give ant information of the insect's own flight capacity, the speed and course of the insect's passage being the product of the insect's own proper speed and course in dead still air, and the full speed and direction of the wind, or breeze prevailing at the time of the passage. From this it follows that the insect's apparent behaviour in differing wind conditions will be the exact measure of those wind conditions. The insect, in fact, is a constant, and the prevailing conditions provide the inconstant, factor."

Caphein Du Gompton-James, in the course of a recent *uicle on African animals, describes the attitude of the Afriean buffalo when charging, which is of interest in view of the statements already made to East Africa. "The animal charges," he writes, If with head lowered so that its chest is covered. The target presented is a hump which is not vulnerable and a forehoind wich is almésficitirely covered with thick, flat fiom. As the writer served in the Legion of Frontiersmen with the tate Captain F.C. Selous, his opinion deserves attention, but the general idea, confirmed by correspondents, Is that the buffalo charges with head up. What say our readers?

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## the congo basin treaties? <br> Viows of the Associated Chambers.

Nairobi, Jan. 25
The Association of East African Chambers of Commerce has resolved that, though there is a strong desire to help the Motherland, in their opinion the Congo Basin treaties should not be dis turbed in a manner to enable British East Africa to grant Imperial preference.

The opinion was further expressed that the paramount present economic interests of East Africa were the development of closer trading relations toward's the ideld of a homogeneeous unit or home market. While Article 10 . of the Tanganyika Mandate permitted closer economic coordination, yet its implication (it was held) forbade Imperial preference either on sentimental grounds or as a bargaining tariff instrument. As the Association could not tell whether a radical change in the Mandate would be acceptable to all parties to the Congo treaties, it
e-therefore decided against favouring any change which might distuab the complete accomplisbbopent of East African unification.
However, the Association recommends an adjustment of boundaries to conform more closely to the "natural" boundaries of the countries concerned; also that the term "complete commereial, equality" be sunequivocably defined. Finally, the Association holds that the earliest opportunity should be fotaken for framing, a consolidated amending treaty which wh ely the treaty of Berlin and all stheren enventions.
The reference "to the definition of commercial equality is understood to the due to the belief, for example, that British citizens find it fifficult to obtain conressions in foreign territories schas the Belgian Congo dैं wasty as Belgians, though thère, was probably no direct breach of the letter of the Congo treaties Tinzes?

## UGANDA'S IIEWS GU-PROTECTION

A COMMITTEE, consisting of representatives of the Uganda Goverbmeit, comperce, and Native interests, was appointed last November by, the Governor to report on (i) alterations in the Customs tariff essential in the interests of the Protectorate without loss of revenue; (2) to recommend the best means of reconciling the protection of local indinstries in any of the territories of Uganda, Kenya, and Tanganyika, with the operation of a complete Customs Uniong and (3) to recommend a geperal policy on railway rates in furtherance of the development of the three territories.
The Committee recommendsumpunvensly va Eus tơins tariff if $10 \%$ ad valorem, but is prepared to, agree to $20 \%$ to meet the views of the other territories and secure revenue. It states that protection is unnecessary and unwise for Uganda, and suggests that any country wishing to protect its own industries shouldado so at its own expense. It expresses a great desine to preserve the Customs Urion, but not to the detriment of the interests of Uganda.

Further, the report strongly recommends the prompt removal of preferential railway rates for country produce as an indefensible, unnecessary, and unreasonable restriction on imports from the Mother Country, where the taxpayers bear a considerable portion of the interest and sinking fund charges on the eapital of the railway.-Times

Having recently received a cable from London from a prospective settler who wished an immediate valuation of a property in the Thomson's Falls area. the Nairobi office of Messrs. Smith, Mackenzie and Company charteman aeproplane to carry one of their valuers who, leaving Nairohi at 8 a,m., had completed this task and returned to the town before 5 p.m., thus demonstrating the commercial use of aircraft in East Africa to-day.

## NEWS IN BRIEF BY MAIL AND CABLE.

A Belgian Military Mission, consisting of a major and two lieutenants, left Europe last week to organise the Ethiopian army.

A Cable received from the Tanganyika Kailway authorities states that water in the Lake Gombo district is still 2 ft .5 in. over the rail, but that if present conditions continue they hoped to tranship passengers from the beginning of this week and to resume through trains by Saturderyerme

The Uganda Government has decided to close the AAgricultural Department's experimental plantation at Isigomay near Fort Portal, and is regeiving tenders for a lease of the land (44acres) for agricultural putposes.- Some sixteen acres are under arabica coffee, tea, sugar cane, frtit trees, cinchona; setc.

The Public Schoolboy Tours Committee is planning an East African tour starting on August 1 and ending in Redon on November 22. It is proposed that the, pary should spend four days in Zanzibar, visit Tanganyika, spend twelve days in Uganda, and about a month in Kenya. The expense is estimated af £150 for each boy.

THE Suddn. Govan ** * * *experifiertiong, to see if crude fuel oil in the soil is an effective barrier against-termites, the so-called "white ants." Three of a series of nine heuses have had their foundations completely insulated from the surrounding earth by a three-inchi layer of oil-impregnated soil. A trial might Be given to this method in East Africa; where anyone is pestered by these unwelcome insécts.

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 TEA, RUBBER AND
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## EAST AFRICA'S' INFORMATION EOREAU.

East Africa's" Information Bureau exists for the free service of subscribers and advertisers desiring the Editor's aid on any matter. One of its prineipal objects is to contribute to the development of British trade throughout East and Central Africa, and any information which. readers are willing to give for that purpose will be cordially welcomed.
Manufacturers wishing to appoint agents, and agents seeking further representations, are invited to communicate with the Editor. No charge is made for the service rendered by this Journal in such matters.

The ordinary general meeting of Barclays Bank (1).C \& O.) was held last week.
A. Kiambu farm of 436 acres was recently sold at anction in Nairobi for $£ 3,200$.

Messrs. J. R. Cox \& Co. are understood to be cofing down their Kampala branch.

The Standard, Bank; of South Afriea has declared "ah an interim dividesidus. per annum,
less tax. The annual general meeting of the African and Eastern"Trade Corporation was hevd atast week in Liverpool:

Tanganyika's mineral outputin December totalled 589 ounces of gold, 47 carats of diamonds, and 724 lb of mica

The Carnegie Corportitioh of New York has made a grant of $£ 3,00$ for the establishment of rural libitaries in Kenya.
Gain Ltd., of Nakury, is being voluntary zvound up, since the company cannot by reason of its liabilities continue busingess.

The Beira Rathay y Company*has purchased the Savoy Hotel, Beita, formany years owned by Mr. A. J. Lawley; the well-known pioneer

The total public traffic dealt with by the Koya anid Uganda Railways during the first nine montis of r929 reached 733,301 tons, or an increase of $98 \%$ over the corresponding figures for the prevrous year.

Mr. G. St. Claire, who dhas had fifteen years' business experience in East and South Afriea, and who was for a time port manager in Mómbasa of the Magadi Soda Company. has begun business in Dirban as an indent and commission agent.

Some idea of the severity of the plague in Uganda during recent months may be gleaned from the statement of the Birector of Medical and Sanitary Services that there had been 4.519 deaths among Natives and 35 among . nem-Natives up to October 19
The special aeroplane built for the Airoratt Operating Company's air survey work in Northern Rhodesia is untique in that it can fly, turn" and climb with one of it two engines cut out, thus climinatifig much of the -nk impolved in flym, over unexplored country.
$£_{1,000}$ was left to the Church of Scotland Mission at Kikuyu by Mr. Samuel White, of Dorset House. Clifton, whose estate has been proved at $£ 267,35^{2}$.
${ }^{\text {The Uganda Chamber. of Commercows petitioning }}$ the Secretary of State for the Colonies against the removal of the headquarters of the Agricultural Department from Kampala to Entebbe.

An Uganda correspondent believes that the Pro tectorate must this season expect to get for cotton seed prices not higher than, and quite pośsibly lower than, those of 1926, n which year the cotton tax was reduced by the local Government and special reductions made in freight charges by the Kenya-Uganda Railway and the shipping companies in order to assist the indistry

An unofficial but' reliable cable received from Uganda by H.M. Eastern African Dependericies' Trade and Information Office states that a cotton buying combine lis expected to be formed in the Bunyoro and West Nile districts. The 1930 crop in Buganda is estimated at 72,000 bales, Fut in the East m Province a lower yield is expected than the estiniate of. 950000 bales. A record crop of robusta ceffee is anticipated.

A travelling post office now runs in connection with each alternate steamer the KhartoumMalakal interviodiate mail sefter All classes of postal business, except that of savings banke will be dealt with by the T, P.O. at all places of call on the river except at-E1 Geteina, Ed Dueim: Kosti, El Jebelện, Er Renk, Kaka, Melut, Kodok, and Malakal, where post offices already exist.

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> Endurirics may be adarcatel) so (emūnumer $\boldsymbol{W}: \boldsymbol{R}$. Giftert R.N. gre of Rarclizy: Ban (A) Cito OL Nairuty

## EAST AFRICAN PRODUCE REPORTS.

## Coffee.

STEADY to slightly dearer prices were realised last week for East African coffees.

## Kenya:-

"A", sizes
"C", ",
Peaberry"
London graded
First sizes
Second sizes
Third sizes
Peaberry Pale
Ungraded and mixed
London cleaned:-
First sizes
Palish
Sècond sizes
Pale
Third sizes and triage
Peaberry
Uganda:-
Frrst sizes
Second size
second sizes
First sizes

- Second sizes.

Third size Toro Peabery
,
$\qquad$
Qondon cleaned :-
Smalls and triage
Peaberty :
Tanganyike:Arusha: :-

First sizes
Second sizes
Thirdssizes
Peaberry
London clea
London clean Second sizes Third sizes Peaberry Brown Usqmbara, -
Lonión cleaned:-
First, sizes
Thitd sizes
Peaberry
ed :
-
$\cdots$
$\square$
$\square$
$\square$

r33s. 6d to 165 s od. 205 od 19 1295. od. 635 od to 935 od, 130 s . ed, to r6os. od.

102s. 6 d to 14 rst od.
81 s . od. to 1225 . 6 d .
46s. 6d. to 795 , od
125s. od. to 1345. 6d:
yos. od.
435, od, to 715 . 6 d .
1345. od. to 141 s . od
pos. od.
875. 6d.

35 s . od to 405 od
1395. 6d, to 132s. od.

7 is 6d:
58s. 6 d.
705 ode to 84s od
45 s od. to 6 gs. od
325 s .6 d to - 535 . 6 d .
69 s . od to 85s. 6 d
 405 od. to. 425 . od.
30 a odver
$73 \mathrm{~s} ., \mathrm{od}$ :

oos. od: to 127s. od; 665: ad to 945 . od: 405. od. to 58 s . od. 735. od. to 118 s . od.

Iờos. 6d. to 115 s . 6 d .
7 IS . od. to -8 os. 6 d .
415 od. to 968 \% od. 85s. od. to 1145 s 6 d . 4 IS. .od. to " 70 s. 6 d .
raland:-
London cleàned:-
First sizes
Second sizes
Third sizes
1205 od to 1295 s. od. 70s. od. to 78 s . od. 4is. od. to 445 . 6 d 94 s od to i305. ad

Groundnuts.-No business is passing, but £ 16 ios. is quoted as a nominal figure.

Hides and Skins,-For Mombasa hides $30 / 40 / 30 \%$, about 8 ld . per lb . is quoted for the heavier weights.
Ivory--Soft, large and medium tusks showed declines of from $£ 5$ to $£ 8$-per cwt. at the recent sales, but in the better qualities there was hardly any depreciation. Billiard ball pieces and centres were irregular, $£ 105$ per cwt. being paid for 3 in. diameter, $\ell_{2} 129$ for 24 in. and $£ 132$ for $2 \frac{1}{2}$ to $2 \frac{2}{2}$ in Scrivelloes were steady to rather lower at $£ 89$ to $£ 100$ for 21 to 27 lb . tusks of $2 \%$ in-diameter, $£ 86$ to $£ 88$ for $12-13 \mathrm{lb}$ tusks and $£ 60$ to $£ 80$ for 10 to 13 lb . Cut points off large tusks were a little lower at $£ 78$ to $£ 86$ for soft grain, and soft bangle tusks were from $£ 50$ to $£ 62$ per cwt. for sound, round, and hollow.

Simsim. - The market is ververeglected with white and /or yellow around fic.

Sisal.-Quiet and easier, with. goood marks No. I Tanga nyika and Kenya quoted $£ 34$ ios. c,i.f. for January March shipment.

## PASSENGERS FOR EAST AFRICA.

The s.s. "Bunluce Castle", which left Eondon on Jandaty 23 , and Plymouth on the following day, carries for:-


The P. \& Q. liner " ' Mongelia, '3 which left London on Januacy, anownd is duento deave, Marseilles to-day, carries for: -

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Cady de L'Isle and Dudley Miss J. Bapley

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## This is what widely experienced maternity nurses say of Glaxo with added vitamin D

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Greenish
103s. od.
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First size brownish green
Second sizes.
Huri:-
London graded :-
First size palish green

$$
79 \mathrm{s.} 6 \mathrm{~d}
$$ frican coffees oby January 22 totalled $30 ; 511$ bags, as compared with 28,453 bags on the corresponding date of last year.

## Other Produce

Castor Seed. On a very quiet market the nominal value for February-March shipment is $£ 55$
Chillies.-Quiet, with Mombasas quoted jos. per cwt -
Cloves.-Zanzibar spot are offered at gid. to 1od.; with sellers of January-March parcels at $8 \geqslant d$. ci.f.
Cotton.-East African cotton continues in fair demand, * priés ranging 7.12 d to 10.5 d . per lb .

Cotton Secd. - New crop is quoted at £6. 15 s. ex-ship.


Over 2 years medical trials in Great Britain proved the value of this new Glaxo (with added vita. min D) for infant feeding before it was placed on the market.

CEnsures good bone for: mations steady mitcrease .n weight and a happy "contented child."
"Removes constipation, a condition which causes endléss anxiety?
"Needs no addition of cream or cod-liver oil?
"It satisfies."
Prevents rickets and tèething troubles."
"Glaxo brings Sunshíne to Baby and to Baby's Mother:"


## PASSENGERS FROM EAST AFRICA.

The British-India liner "'Matiana," which arrived in Lorturitrom East Africa on January 17, cärried the following passengers for
Marseilles. Mt and Mrs. F.
Dr. and Mrs. T $F$
\%
Caldwell
Mr. A. G. Bailey
Andersan
Mr. W. H. Baldwin
Mr. W. Brown-Robertson
Mr. D. G. Burns
Capt. D. Chapman
$\mathrm{Mr}, \mathrm{G}, \mathrm{F}_{\mathrm{V}}$ Clay
Miss Foster-Smith
Mr. G. Gulliver
Miss A. Hammond
Sir A. Claud Hollis
Mr. C. H Lloyd
$\mathrm{Mr}_{\mathrm{r}}$ and Mrs. A. J. Lush
Mr. C. G. Moriison
Dr. and Mrs, C. E Roberts
Mr. H. Selig
Mr. E Dr Suluvan
Mr. and Mrs. ${ }^{\mathrm{M}} \mathrm{M} \mathrm{m}$
The Rev A. W Waterman
Mr. J. B. Witherick

- London.

Mr , and Mrs. H: M. Bailey
Mr . S. Campbell
$\mathrm{Mr}_{\mathrm{Mr}}, \mathrm{S}$. Campbell
$\mathrm{Mr}, \mathrm{J}$ Coates
Mr. R, B. Cockle
Mr. C. M. Coke
Mr . and Mrs. S. A. Evans
Mr . C. A. Frost
Mr . W. J. Foster
Mr. H. J. Galt
Mr. G. R. GibЂons
Mr. S, Gill
Mr. W: P. Heard
Mr. W. Heard
Misses V. M. Hockley
Miss M. Hume
Misses E. and C. Keates
Mr. F. W. Large
Mr. R, D. Pearson
Mr. and Mrs, T. Poncia
Mr. and Mrs. E. A. Ruck
Mr. R. Ross Stark

- Hiss M. Speke

Mrs. E. and Miss B. Stanley
Mr. A. Stantón
Mr: A. C. Thomas
Mr and Mrs. H. M. Bailey Miss T...Wilson
Mr. and Mrs. W. H. Badey

The s.s. "Giuseppe Mazzmi," which arrived in Genoa on January 20 , brought the following homeward passengers from


The names of passengers who left England for East Africa" by the "Sunluce Gastle" and the "Mongolia "" appear on the previous page.

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British-India.
"Malda ", passed Perim homewards, January 25
Madura', left Marseilles for East Africa, January 25.
"Modasa", left Dar es Salaam, January 23.
"Ellora" arrived Mombasa from Bombay, January 27
Khandalla" leeft Zanzibar for Durban, January 27
Karagola" left Durban for Bombay, January 27
Karapara " left Bombay for Durbani, January 29.
Karoa" left Mombasa for Bombay, January 22.
Clan-Ellerman-Harrison.
Governor". left Dar is Salaam for further East A frican ports; January 20.
"City of Bath" arrived Mombasa, January 19.
"Whthiartus" left Birkenhead for Cast Africa, Jan. in. Holland-Africa.
""Springfontein" left Dunkirk for Hamburg, Jan. 21
"Rietfontein "" left Hamburg For East Afriea, Jan. 22
"Alkaid", arrived Genoa homewards, January 20.
"Nykerk" left Port Said for Hamburg, January 18.
"Giekerk 㹟 left Mombasa for Rotterdam, January 19. Klipfontein" left East London for East Africa, January 20.
"Heemskerk," left Amsterdam for East Africa, Jan. 21.
"Rypiefkerk" left Hamburg for Beira, January 22. Messageries Maritimes.
"Leconte de Lisle" left Diego Suarez for Marseilles, January 25

Aviateur Rolańd Garros"," arrived Marseilles, Jan. 25. "General Voyron" left Tamatave for Mairitius, January 26.

Bernardin de St. Pierf̈e " left Port Said for Mauritius, January 22.
"Chambord ", arrived Zanzibar for Mauritius, Jan, 22.
"General Duchesne", left Mombasa for Marsaplles, January 20.
"Carlow Castfe, Ieft Suez fox East Africa, Jan. 23.
"Dunluce: Castle" left Plymouth for Beira, Jan. 24
"Garth Castle". 1eft Ascension for Beira, January 25
"Grantulty Castle" arrived London; January 25.
"Guildford Castle" left Dar es Salaam, for London, Jathuary 27.
January Llangiby Castle" left Cape Town for London, Jañuaty 21 .

## EAST AFRICAN MAILS.

Mails for Kenya, Uganda, Tanganyika, and Zänzibar close at the G.P.O, Lorldon, at 6 p.m. on:

Januăry zo per s.s. "Rawalpindi."
February 6, s.s. is Kaisersi-Hind.
$12, \because$ s.s. of Aviateur Reland
13 s.5. "Narkunda,
26 ". S.s. "General Duchesne""
Hats for Nyasaland, the Rhodesias, and Portuguese East Africa close at, the G.P:O., London, at 11:30 a.m. évery Friday.
Inward mails from East Africa ate expected in London on Februaty 1 , per s.s. "Rajputana," on Februars 9 per the s.s. "General Duuchesne," and on Febbruary 15 per the s.s. "Mooltan."

To conmenorate the first ses of theolegislative Council of Tanganyika held in Arusha, the Arusha Coffee Planters Assóciation, the Usa Planters' Association, the Arusthas Chamber of Commerce, and Meru Agricultural Society have combined in the publication of a brochure on Aruslia, copies of which cạn. we believe, be obtained by anyone interested from either of the public bodies mentioned. The" brochure contains up-todate information about the district and a number of attractive illustrations.

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