
D. O. Shillong R. S. No. 3105 of 1922.

# CENSUS OF INDIA, 1921. VOLUME III. 

ASSAMM.

## 'PART I.-REPORT.

BY
G. T. LLOYD,
of tur indian civic barvior, SUPERINTENDENT OF CENSUS OPERATIONS, ASSAM:


## SHILLONG :

PRINTED AT THE GOVERNMENT PRESS, ASSAM,

## Agenta for the atie of Booke pabliohed by the Aampe Geroramont.

(i) Memor. Thacker, Splak \& Co. Culeution.
(a) Mosurn W. Nomman \& Co., Calcutta.
(3) masers, 5, K. Lahiti \& CO, Calcutta.
(4) Mesarn, A. M. and J. Perguena, Coylon.
(S) Mossra. R. Cambray \& Co, 6 and $8 / 2$, Hastinge Strath, Calcutta.
(c) mosurf. Inompron \& Co., Madras.
(7) Baba Hari Ram Dhar, b,An, Popular Library, Dacen
(0) Meseri. D. B. Taraporevala Soas © Co, 103 Moadon
(o) Tho Indiant, School 8 ox No. 187. Bombay.
10) Mestrrot, Calcatta. Harson Road, Calcutta.

## Agente in india.

(11) Moanra, Studenta \& Co., Cooch Dihar,
(ta) Mesmn, Van \& Co., Madras.
(13) The Standard Literature Co. Lumited, as-1, OIS Court Housa Strmet, Calcutte,
(14) The Standard Book Stall, Karachl.
(t3) Mr, Mangaldau Harklaanden, Surat.
16) Mesern. Rermadan, Nafandes asons of Surat,
(17) Munohi Seeta Ram, Managing Propristop, Ladian Army Hook Depot Juhi, Cownpore
(18) Proprictor, Now Kitabkhana, Pooan.
(19) The Association Press, Caleutia.
(20) The Manager, The Hitavade Craddock-Town, Nagpur .

## Agente In Creat Britaln

(i) Medirit Constable \& Co., 10, Orange Street, Leeicentor Square, W.C.
(1) Measra. Kegan Paul, Trench, Trabner \& Co., 68-74, Carter Lape. E. C., London, Oriental Department, 39 New Oxford stroet, London, W.C.
(3) Mr. B.Quaritch, 1I, Grafton Street, Hew Bond Stroet, W. (4) Mossra. P. S. King \& Son, g, Bridge Streot, Weatraiseter, S. W., London.
(s) Mr B.H. Blackwoil, so and 58, Broed Street, Oztordo
( 0 ) Mourer, Doighton Bell \& Co., Limitod, Carrabridga.
(7) Meserr. Heary S. Kiag a Co., 65, Cornhill, E. C., London.
(8) Mossra. Griadlay \& Co., i4 Parliment Skreat, S. W. Londea.
(g) Measra, W. Thecker \& Co., 2, Creed Lape, Loajoion, E. Cu
(10) Mesari, Luzae \& Co, 40, Great Rumell Stroci, London W.C.
(1t) Mr. J. Fisher Unwis, Limited : Adalphie Terrecer Loados, W. C .
(12) Mensrs. Weldon and Walloy Limited, ${ }^{2}$, $^{3}$ \$ 4 , Aurthur Street, Naw Oxford Strea, London, W.C. 20
(13) Mesern. Oliver aod Boyd, Iweodele Court, Ediaburght.
(14) Mosers, E. Poasonby, Led., t16, Graftoo Street, Dublia.

## Agente on the Continent of Europe.

(1) M. Earnest Larouz, 28, Kue Boanparth, Fas y.
(2) MM. Friediander \& Sohn it, Caristrasse, Berlig.
(3) M. Otto Harrassonity, Leipsis.
( () Mantinus Nijhofl, The Hagun.

## TABLE OF CONTENTS.



## INTRODUCTION.

1. The Assam Census Report, which counts as Volume III in the series of provincial reports of India, has two parts-Part I, the report proper, and Part II, the Tables. These are printed in
Volumes of the report. separate volumes, and in order to save the reader the trouble of constantly referring to the Tables Volame, and also to present absolute form, a number of subsidiary tables is given in this (Report) volume. A third part, the Administrative Report, is also published, but this is purely for use $a$ the next census and contains details of no general interest.

The plan of the present report differs little from that of the last census. Chapters I and II have been divided differently, but the subjects of the other chapters remain as before.
2. This, the sixth Census of Assam, was taken on the evening of the 18th March 1921. In 1872 Assam was included in . Bengal ; in 1911,

Previous censusee.
it was censused as a part of the province of Eastern Bengal and Assam, but a separate report was writfen for Assam; in all the other decennial censuses, taken in 1881, 1891, 1901 and 1921, the province has been a scparate unit
3. A few additions have been made to the area censused in 1911. A tract of Konvak tribe territory in the north-east of the Naga Hills and some Khamti, Singpho, Abor, Mishmi and Naga villages to the north and east of the Sadiga Frontier Tract and the Lakhimpur district hare been brought under census for the first time; and a small area with two villages has been transferred from Bengal to the Sylhet district.

An administrative change of importance has been the creation in 1912-14 of the two new districts, Sadiya and Balipara Frontier Tracts. The census of these tracts was taken only in the old settled parts transferred from the districts of Lakhimpur and Darrang, and in certain other parts regularly administered by the lolitical Officers. There is no defined outer boundary to these tracts, and no attempt was made to extend the census to the hills inhabited by tribes which are only ander loose political control.
4. Deiailed accounts

Census divisions and personnel.
of the arrangements, difficulties and expenditure have been given in the Administrative Report, published separately. The procedure has differed little from that of 1911. The following general summary is given to canble the reader to understand how the results have been axrived at and to judge of the reliance to be placed on the statistics.

There are fourteen districts and one State included in the province. These contain thirty-four subdivisions in cluding those directly under district headquarters. As in previous censuses, every district was divided into blocks, each under an enumerator (almost always a local man), whose duty it was to make the entries in the 16 columns of the general schedule for every person in the block. There were over 47,000 such blocke, containing on an average 36 houses.

In the remoter parts of the hills, where long distances separate villages and literate men are scarce, the enumerators had to deal with much larger blocks. In the hill mauzas of the Garo Hills, for instance, the average rose as high as 177 houses. Tribal blooks in the Naga Hills were equal to circles and in some cases contained over 2,000 houses. In such cases the enumerator took several weeks to make his round.

Blooks were grouped into census circles of about 400 houses each; the circles were oombined into charges each under a Charge Superintendent, whose charge usually embraced about 15 circles or 6,000 houses. Circles and charges were arrauged generally to coincide with administrative units such as mauzas and

In each subdivision of a district, the Charge Superintendents were directly under the Subdivisional Census Officer, who was either the Subdivisional Officer himself
or a gazetted officer of his staff.

In general control of the district was the District Officer; in Manipur, the President of the Darbar under the supervision of the Political Agent.

The Charge Superintendents and a number of the circle supervisors were offiaials of the Police, Revenue, and other Departments, and did the work as a rule in addition to their ordinary duties; the enumerators were almost all non-officials.

With the exception of a fow paid men in hill tracts, the whole of the omanas staff in the districts worked without romuneration and moro or lens voluntarily.

The total number of oensus officers employed was nearly $\mathbf{5 0 , 0 0 0}$. Dutailod instractions for theso wore laid down in codos and books, and in tho wintor of $19.20 \cdot 21$ they were all trained in their dutios by the next highor olloials in tho olnin, emaling with the Subdivisional Oonsus Officors. In tho course of my tourn I altended mectings of the census officials in most subdivisions, explained proculurg and disoussed difficulties.

The diversity of questions to be answered in the scholules, the detniled instruotions under each heading, the illiteracy of the people and the various cantr, linuange and social disputes which arose made the task of training no otsy one. 'I'her result achieved reflocts the greatest credit, in most districts, on all who took part.
5. The census of Israel and Judah taken by Joab for King David occupied nine months and twonty days, and even then only the numbers
Enumeration and provialonal of the people and of fighting men wore placed on record.
The Indian Census records many other divorse statisties and, with all its primitive methods, oan certainly lay claim to greater speed than this in the actual counting and reporting, as the following notes will show.

In October and November 1920, numbers were put on all houses by the enumerators. A house was defined as the dwelling place of a commensal family.

In January and February 1921, a proliminary enumeration was made. The entries were made usually on blank paper and were inspectol and corrocted where necessary by the supervisors and Charge Superintendents.

On the Census night, by which time the rough drafts had been copied into tho schelules, the enumerators went round their blocks for the finsl enumeration, which cousisted in reading over the entries at each house, striking out absenteos, and entering up new arrivals.

In the greater part of the Hills, this final enumeration was impossible and the preliminary entries were used as final. This omission has liftle eftect on the accuracy of the census, however. In many cases modifications for birtils, deaths and new arrivals were made on the reports of village hoalmen recoived close up to the final census date, and generally owing to the immobile nature of the hill people the de jure population statistics obtnined by this method are quite accurate enough for all ordinary purposes.

Special arrangements were made for enumoration of travellers, troops, survey parties, wandering gangs, tea gardens, forest areas aud mooring ghats. Night trains were halted at special stations and in mail trains and steamers a special runniog staff carried ont the passengers' consus en route. On the Brahmaputra and other great rivers patrol boats with special enumerators were stationel to cutch travellers by boat.

On the morning after the census the enumerators of each circle assembled with their supervisors and circle totals were struck for occupied houses and for popalation by sex. I hese were sent at once to Charge Superintendents, who made summaries and despatehod them to district or subdivisional headquarters. To get these simmaries in as yuickly and safely as possible all kinds of conveyance were pressed into servicehoms, bicycle, motor ear, trin, steamer, boat, runner, elephant and the telegraph were all used in various places.

The prepration and checking of totnls of the difterent units and their devpatch in many instanes for long distanoes ovor diffoult oountry necossorily took ome time: novortioloss all tho distriet totals were made up and telegraphel to the Cemsus Commisxioner and the Provincial Superintendont by the Stheday after the emsus. Thase provisional totaly wero formi to dition by less than 1 ju a thousat inm tho limal correoded totals prepared later in the tabulation oftices. Tho houous for swifturss mid acouray fell to Sadiya lrontier Tract and Cachar. The tormer was tho flrat and only diviriet th talogmph its digures on the gith March-less than 31 ; hours


 humbred thousand on a propuhation of over half a milion.
6. Alur tho dosputoh of provisional totals the swhedules were sont to mpyins
 nul thrue at distudet headguartore for Manipur, Lushai Mills and tho Khasi Hills.

No mechanical processes of sorting or tabulation were introduced. As in 1901 and 1911, every person enomerated was allotted a slip showing by colour, printea symbols and copied entries all the particulars entered in the schedule against his name. The preparation of the slips took about three months with a staff of some 450 men ; this stage would have been finished much more quickly but for a dearth of suitable copyists and consequent slow work in the Lasłai Hills.

All the slips were sent to the two central offices for sorting. This process was finishcd in September, about six months aftor the census. Tickets showing particulars required for all the tables were prepared for the smaller units and groups by the sorters and these were entered up in compilation registers at the Gauhati Central office. Compilation of figures for all the important tables was finished by February 1922, when the Gauhati office was closed. Certain tables were left to be prepared in the head office at Shillong, notably the industrial (factory and cottage industry) tables for which special schedules had been issued, one or two of the occupational tables and the subsidiary tables for all the chapters of this volume.

Final checking and printing of the tables and report was done at Shillong also.
7. The cost of this consus is necessarily much greater than those of previons years. The trar of 1914-18 and other world causes combined to raise wages and prices. We had therefore to pay more to our copyists, sorters and oompilers and more for our paper and printing than in former years. Further, for administrative reasons, I was detailed by Government for other duties away from my headquarters, for about 8 months in the yoars 1921 and 1923. This added the cost of retention of the Superintendent and his staff for a longer period than would otherfrise have been necessary, and has delayed my report by several months.

Taking the actual cost of the first two years, and the estimated cost of the third year (certain printing accounts are not yet finally adjusted), the total extra cost to Government. is Rs. $1,12,835$. This gives a cost per thousand of the population of Rs. 14-1-11 against Rs. 7-1-0 in 1911 and Rs. 11-2-0 in 1901. Comparison with 1911 is hardly fair, as the greater part of the work for Assam was combined with that of Eastern Bengal and the cost per head is naturally bower the larger the population involved. Considering the rise in prices, the addition of two new districts and the expansion of certain of the tables, the cost compares not unfavourably with that of 1901.
8. We have not had at this census any such serious mishaps as those of 1911 ,

## Attitude of the people

 which caused Mr. MoSwiney to compare the course of census operations to that of true love. The printing and distribution of forms, in particular, went much more smootluly than was the case in 1011. Our chief trouble was delay caused by reflection of political and inciustrial disputes. It is true that the great apostle of non-co-operation decreed that the ccusus should not be boycotted, and we had therefore very little trouble from that onuse. But wo had two or three strikes of the copyists in the central offices while railway strikes delayed receipt of completer slips at the sorting offices in some cases.The attitude of the people, on the whole, was one of indifference. The novelty of the census had already worn off before the last census was taken; and by this time, many peop!e find it a nuisance. As excuptions to this must be noted those who are striving for social or other advancenent and saw in the census a chance of adding evidence to support their claims. This has been discussed in the caste and langunge ohapters. The better educated people also generally took more interest and helped to make the record acourate. The army of supervisors and enumerators objected in many cases to work without pay. They were, of course, bound to do the work, under penalty provided in the Census Aot, but it could not be expected that this form of lawful compulsory labour should be popular, especially when our budget in the first year was out so low that the consus volunteers had usually to provide their orna pons, ink and biank paper and matorial for house-numbering.

A few mon were fined, and more were warned, for neglect or refusal of duty, bat in the end the great majority of census officials did the work cheerfully and did it to the best of their ability. In Sibsagar, the Deputy Commissioner in course of his tours frequently asked the people if they would prefer a special tax to a little gratuitous labour, and was then met with ready acquiescence. Tea planters in some cases took an active intorest and in others rave no help at all. The people of Sylhet made little objection. It would soem that their attitude to the census has changed since 1881, when an Indian gentleman of position (possibly not himself a native of the district), desoribed them thus-" Ferocious as tigers, resentful as bears, obstinate as pigs, senseless as savages.............certainly a dangerous set of men to deal with..............of á very
turbulent nature."* Oertificatos havo beon distributed to auporvisors and onumeratora in most cases over distriot offcers' signaturos, but I take this opportunity of rondering thanky to all those unpaid workers who helpod to make tho consus a success.
9. There are still many people who ask what thore oan be now to writo in a utillty of the consus. cenaus report. It is true that in atudies of the propllo, ethnographical, linguistio and so forth, we cannot bo expected to add much of interest to what has beon written in past ounsus roports and in special publications. But we have at loast wholly now ects of atatistion to work on, and it can scaroely be donied that the latest statistics and the exposition of their meaning must be of value to administrators as well as to studente, oxpecially in a province with such diversities of climate, community and customs as aro found in Assam. It has been laid down that at the present census attention is to bo dovoted more to the statistical aspoct and changes in the last decado than to matters of academic or general interest.

While the old saying that anything oan be proved by statistics is nonsonse, there is no doubt that anything can be proved by a wrong use of statistics. Especially is there a danger in a census conducted by the primitive methods which we ues that meticulous care in deduction may outrun the accuracy of tho data. The data depend a good deal on the personality and intelligence of the enumerators and the subordinate staff in the abstraction offices, although inaccuracy is to a grent extent eliminated by supervision and check. I have endeavoured to avoid this pitfall, but I cannot claim that all conclusions in the various parts of the report are correct; and this must be my apology for a somewhat frequent use of the words ' probully,' 'possibly,' 'suggested explanation' and so forth. Fior the same reason, I bave considered that elaborate mathematical analyses would be generally out of place until we have some firmer data to go on in matters sueh ns age, literacy and division of occupations.
10. As always, the brunt of the work, up to the actual census, fell on the District Officers and their Subdivisional Officers and Census Officers. I am indebted to them the more in view of the heary extra industrial and economic enquiries which had to be made by them in connection with this census, in pursuance of the wishes of the Government of India.

Particular acknowledgments are due to Messrs. N. K. Parry, r.c.s., and T. P. M. O'Callaghan, I.P., for their arrangements in the Garo Hills and Sadiya Frontier Tract; to Lieutenant-Colonel Playfair, I.A., for his personal interest in settling language and caste disputes in Goalpara; to Mr. W. A. Cosgrave, II.c.s., for infusing life into the dry bones of the census at Lakhimpur. Mr. Cosgrave took charge of the district when the census arrangements were far behind those of all other districts, and assisted ably by his census officer. Mr. G. C. Bardoloi, Extra Assistant Commissioner, evolved order out of chaos in a few weeks.

Among distriot and subdivisional census officers, the greatest credit is due to Extra Assistant Commissioners Srijut Bhahataran Das of Nomgong, Babu Ridha Ranjan Dhar of Habiganj, and Babu Rajani Kanta Rai Dastidar of Silchar. I have to thank Mr.K. Cantlie, Subdivisional Olifier of North Lakhimpur, for his personal care in pursuit and olaboratinn of the economic and industrial questions.

Tho co-operation of all the municipalities was freely given; special mention must be made of the help receired from the Chairmen of Nowgong and Jorhat Municipalities.

Aoknowledgments are due to the Bongal Government for allowios the great mass of our forms, running into soveral millions, in several languages, to be printed at the Previdenoy Jail Pross, and to the Press and Forms Mamager, Bengad, for oare and oxpedition in the work; to Mr. H. H. King, Superintendent of the Assim Scorrtariat Press, and to Babu D. C. Nandi, who acted for him during leave periols, for care and attention in the printing of our numerous oodes and instructions, as well as of this leeport and the Thblos ; and to Messrs. A. B. Smart and E. G. Martinge of the Bhillong Drawing offteo for advioe and preparation of maps and diayramis for a drawing from which dingram No. 11 in Chapter XII has been reprulued I lave to thank Mr. D.' K. Romaiok of the Survey of India.

[^0]To the numerous gentlemen who have acted as honorary correspondents on social, industrial and religions matters, I tender my thanks. From their reports I have obtained much of the matter incorporated in several chapters of this report, but it is impossible to mention them all separately. Rai Bahadur Aghor Nath Adhikari of Silchar in particular has. supplied me with a mass of interesting information and comment. He is a veteran of five censuses, having passed by successive stages from a boy carrying the paint-pot for the enumerator in 1881, to Charge Superintendent in 1911 and 1921.

I am obliged to Babu Sures Chandra Sen, Deputy Superintendent of the Gaubati Central office, for much valuable advice at the beginning of the operations, and later for his careful and unremitting work in preparation of the tables. My Head Clerk at Shillong, Babu Iswar Chandra Purkayastha, B.A., though new to consus :at first, has proved himself an able assistant; he has saved me much labour by his careful ohecking and supervision and has prepared the industrial and many of the Subsidiary Tables himself. Most of ny staff at the bead and central offices have worked hard and spared no pains: to them also I am indebted.
G. T. LLOYD,

Superintendent of Census Operations, desam.

APPENDIOES.

## APPENDIX A.

## Tital Statistics and Oenoue figures.

## (Soo paragraph 98 and Eabridiary Trble $\nabla$ of Ohap. I.)

In the ten calendar yeara 1011-1020 the excesn of birthe over deathe registorad in tho rogintration areas of the provicee was 60,345 , while the inotease in natural population ar reoorled at the consus for the same aroas was 417,154 . The 10 -yeur period oovered by the census in alightly difuron from the calendar decade, but this makes little differenoe for purpones of approximato oululationn.

At the last census the difference betwoen the excens of birthe ovor deathe and the cenaus natural increase was 848,000 . This time it is even more (aboat 857,000 ) and the problom is to find whuro the error lies, or how much of it is dae to inaccaraoy in the rocord of vital atatimtices io tho ciatrinta.

The natural population found by the census is the actual population lene the oxcone of living immigrants over emigrants, i.e., it is those born in Assam and enumeratod in or out of tho province. These figares are recorded only every ten yearr, but many immigrants comn to the province between the two consus dates and die here. Pigaree for these appear in neither connur, nor do they coms into the birth statistics. But they are recorded in tho death reginters, and therefore we find an unnaturally large number of deachs as compared with births, and conmequont distortion of the figares for comparison with census statistics.

In any area suppose that $D_{n}$ immigrante come in the year $n$ and that the apooifo doath rato in $d_{n}$ for that area or group, $d$ being a fraction of a thoussad. For tas garden immigrants we have no exact death rate for the new arrivala in any one period, but we can take the general garden death rate as an approximation : in fact this will give us a lower number of deaths than ahould be calocalated, as the nev immigrants take some time to become acclimatised.

At the end of one year the number of the original batch of immigrante will be reducod by $\mathrm{D}_{\mathrm{a}} \times d_{n}$, i.e., it will become $D_{n}\left(1-d_{n}\right)$. At the ende of the yeat $(s+1)$, the recond year, this number again will be reduced by $d_{n+1}$ of itself, i., o, the number remaining will be now $D_{n}\left(1-d_{n}\right)\left(1-d_{n+1}\right)$.

Thus, after 10 years $D_{n}$ will be reduced to $D_{a}\left(1-d_{n}\right)\left(1-d_{n+1}\right) \ldots \ldots . . . . .\left(1-d_{n+0}\right)$.
Similarly, the immigrante whu oame in the aecond fear of the docado, $D_{n+1}$, will be reduced to $\mathrm{D}_{n+1}\left(1-d_{n+1}\right)\left(1-\mathrm{d}_{n+1}\right) \ldots \ldots \ldots\left(1-d_{n+9}\right)$.

The whole number of immigrants in the decade is $D=D_{a}+D_{a+1}+D_{n+2}+\ldots \ldots \ldots+D_{n+6}$, and
 $+D_{n}\left(1-d_{n}\right)\left(1-d_{n+1}\right) \ldots\left(1-d_{n+2}\right)$.

Now for the tea gardens we know from the annual immigrant labour returas the value of $\mathrm{D}_{\mathrm{n}}$, $D_{n+1}$ eta, and $d_{n}, d_{n+1}$, etc. Taking the year $n$ to be 1911 , summation of the above ceries-the calculations for which it woald be tedious to ruproduco-shows that the total number of new immigrants to the gardens in the deoade, 768,671 , is reduced by death to 644,648 ; i.e., there are abont 124,000 deaths in this olass, who do not appear in the census returas and have never been recorded in the birth statistics of this province. The number is, of course, only aa approximation, for some of the now ooolies will have left the gardens after a year or two and bocome subjeot to a different death rate from the ones we have adopted.

On the other side of the balanoe, we have to note those who are born in Assam ind registered in our vital statistios and who then leave the provinos and die outside it. The annaal returne show 283,010 children as having left toa gardens in the ton years by transfer, doeertion and discharge. Not all of theee leave the province, however, and not all of them ware born in Assm. If we ruese the number born in Asaum and going to their homes in other provinces as half of the total, or 180,000 , we might tale a quartar of that number, or 30,000 as the total number dying ootside and not reported to un. This 30,000 tends atill further to widen the gap between the census figures aded the recorded vital statiutics.

Noxt, there is an inoreace in the oensus recorded immigrants oataide the tom gardens of 273,000. The great majority of those are in the plaine distriots subjoct to registration. Some are ex-gardon coolies, but the majority are Eastern Bengal and Nepalcse sottlers and tomporary or periodio vivitore from adjoining provinoest Supposing that thewo came in equal numbere overy year and wero subjoctad to death ratem equal on the sverago to the provincial rate, we ahould find that about 350,000 of these olarisee muat have oome altogether, and the total deathe among them would be about 104,000 . Of thase only the eis-coolive who camo to the toa gardonn and left within the decade ahould be axclucud au already dealt with above. Thare will not be many of theer, however, sinco moat ar-oculiee who take up land in the districte are old and not nerm men; theoe may be neglooted, an balaucod by the greater mortality of new garien cooliee mentioned abovo and not taken into our calculation. Thero in aleo on indellaite but emull number of peoplo whe oamo from aroen within the provines but ant undur rogiutrution and dio within registrutiua arene; thew alvo will omell the doath oatrive but buve av oormupondiay birth entries,

In the revilt, we have 184,000 leas 90,000 deatlu mamang the new tengardan immiscoum and alout 104,000 duathe mmong othar immigrante for which there is no birth entry and ow ocaturentry



more or less, mast be accounted for by inaccuracy in the record of the vital occarrences; it may certainly be less than this, if - I have undérestrinited the mortality among new emigrants, for instanoe, or overestimated that among those who roemigrated. But the deficit mast certainly be large. The Department of Pabtio Health hav found on teating certain areas that from 2 to 10 per cent. of birthe and deaths are auregistered, and it is well known. that births are more often
 but the corrections are only a fraction of the total errors.

In the 10 years 1911-1920 there were recorded 1,95\% 760 births and $1,892,410$ deaths in the


 difference 178,852 , agaiast the 158,000 to be accounted for:
 poor, bat it can scarcely be douhted that the great divergence of the census from the wital


 continues, even if accoracy improves, the vital statistics cannot be ased in Assam for aniy estcidation of popalistion ih inter-cesesal yetred:

## APPENDIX B.

## Noles on certain frontier tribes,*

I.-Br Captaln G. A. Nbyihe, i.p., Political Oyfione, Balipara Phontiar Tuact, Tho Akas.
Divisions,-Among the Akas there are two main olans (Kataon, Kovitaun) and thome contain aoveral aub-clans Thero are striotly noither oxoramous nor ondogamoun divisiona, but mexial gradae oxist and one sub-olan will not marry into enothor lower (nocially) clan or eub-olan t an orjuul clan or a different tribe, $0 . g$., Mirit, will bo oboson.

The Khowsow and tho Jassenow are the two highent aub-olans and the ohiofs are trakon from them.
-. The Khoas.- Living amongst the Akas and like thom in droms and feataron (but not in langungo) are a people oalled Niggisa or Khoas. Thay form a labouring clasis and work for tho Aku, but thay are in no sense slaves for they are paid for thoir work and thoy live in thoir own villagoy, Thare are four sub-clans of the Khoas.

System of government.-Though the Akas have a obiof or beadman for outaido dealingn thoir government is very demooratio : each freeman has an equal voto and right of apeech in tho councila Whatever his social position.

Origin and customs.-Their traditions ascribe an eastern origin to the tyibo. Tharo aro no megalithic monuments: Stones are used for sosts by the Akse. The bouses aro almnya built of wond roughly squared and sometimes rudely carved, but not with the more elaborate arving lound among the $\mathrm{Daflag}_{\text {a }}$

Social status is ahown among the Akag, as also among the Daflas, by the size of their hounes and by the amount of jewellery worn.

Natural phenomena-beliefa.-The sun and moon are regarded as fermale and male gode rerpoctivoly (e.g., Ane Dawin; Ato Polo). They are considered to have che power of peace and prosperity or the reverse, so they are propitiated with sacritioes. The marking on the moon is thought to be a big pendant worn by the god. Earthquakees are asid to be caused by that very misjhievons invect the mola cricket burrowing into the earth and telling the god oalled Phumbadege that all people on earth have died. The god shakes the earth to see if this is true : hence all the Akse ahout 'we are all ulive' when an earthquake is felt.

An colipse is regarded as the result of a quarrel between a god named Tsipzibhu and the an and moon. This god tries to eat up the san and moon, and the phenomenon is regarded as very unlucky, portending war, disease or oalamity.

Disposal of the dead.-The Akas bury their dead on the side, with the head to the north and the face to the west; the knees are bound to the ohest and the hands placed jast below the chin. The corpse is brought out from the side door-never from the main door. Rice bear, dao and personal articles are placed by the body. The grave is floored with planks and mats. It is then planked over and earth is put on. A dome of split bamboo with small ootton flags on the forr sides is made to the north of the grave. A post with an arm is placod, and a basket of rioe, meat, beer, eto., is hung on the arm and kept fur ten days.

After death, people go noder the earth and proceed vestivards antil they come to the place vhere the sun and moon set. Thenoe they asoend to heaven. But the conls of ohildren dying soon after birth and of people dying unaatural deaths accend direct to heavan without undergoing any pilgrimago under the earth.

Physical traits.-The Akas are a yellowish-brown race of deoidedly Mongolian appearance. The ekins of those who are habitaally exposed to the sun are qaite brown, but many of the womeo are a vory pale yollow and often have a roddish tinge on their cheeks. They are very flat-fucod or platyoprosopio. Tho hair, which is struight and black, is worn knotted at the top of the head.

Dress.-The men's dress consists of a coarse cotton cloth pioned with small bamboo pins over the oboulder and worn round the body. This is bound with a kamarband round the waiot, and forme a short akirt to jast beloriv the knoes. A jaokat reaching to the hips is norn over the cloth. Sometimes sieeves are worn, cometimes not-often the jasket is a mere blanket. On the hoed is worn a pill-box hat of aplit banhoo, and often a plume of oook's feathers or hamboo leaves. Cloth guitera are alwaya worn, to proteot from the daw-dim flien whioh abound in the hills.

Stuck in the belt or olung from the ohoulder is always a das or aword; the quiver in geneally slarig round tho bolly and the bor carried either in the hand or slang aoross the beok.

Stringe of beads round the nook, and a satobel for botal, pipe, tobsooo, steol and fliat complete the aquipment.

Cultivation.-Sowing of sooda is dono by placing them coparatols in holes. The implesoneate ueed are a amall trou hoo und a dao.

Murical inatrumenta. -T A pipe with a double barral ie played by placing to the sectribe and
 wisan. Un feutive ocousiona, milham hurna aro unvi on trampoten

Weapons,-Thuir woapone are the bow, tho apoar and a ehort eword. Thers are abo a fow ahd muanle-loading guas on whioh thwy plawe great roliance.

[^1]
## The Apa Tanangs.

The Apa Tanangs or Ankas live in the valley of the Kgl, a tributary of the Ranganadi. Their country is a very fertile flat valley, which is under irrigation. They are a prosperous and industrions people, very like Daflas in appearance but their langasge is different. Their villages are very large; consitting of more than 1,000 houses. (See Mr. Kerwuod's report of 1y11-12.)

## The $\overline{\text { Deflas. }}$

Divisiors and polity.-T.se Daflas are hardly divided into clans bat certain sections are given s general name, ruch as Togen, Silluns, etc. They are divided into many enogamons groups called Nyobn, e.g., Nytung, Tana, etc. They have no chiefs and no social precedence. The village is the coverning unit, and every member of the community has equal rights. The oldeat and richest man in the village is usually looked on as headman. Tradition places their origin in the east.

I am sare that the practice of occasional polyandry mentioned by Dalton * never existed among the Daflas :-in my experience of them I never heard of it, and a.Dafla would look on the prat tico with disgust.

Sun and moon-bolieft.-The sun is regarded as a female and the moon as a male deity. The sun is the moon's wile. The Daflas claim to be descended from the sun and monn: they call the sun 'mother Sun' and the moon 'grandfather moon'. The moon's markinge are regarded as a scar inflicted by the sua when she quarrelled with her husband and beat him severels.

Eartbquakes are caused by the souls of the dead clearing the jungle on the road to their last abode under the earth. When an earthquake comes the Daflas say' Listen, the earthquake is come, 'and then all stand up. on the spot where they are; if they remsin sitting or lying someone will contract dievase.

An eclipse is caused by the God Tammiu eating up the sun or moon, owing to a quarrel about the moon taking a path over the place where 'Tammin was bailding his chang. It portends grievous trouble.

Burial customs.-Burial oustoms for those who die a nataral death are similar to those of the Akas ; but the hands are placed on the cheaks and the cloth roand the body. The corpse is brought from the back door and placed on its side, with the bead to the north and the face to the west. The rice beer, eto., hung in the basket on the arm of the post to the north of the grave are kept only two days for children and five days for adults.

For those who die an unnatural death, the onstoms are somēwhat, different, s.e., when death is due to a fall, or snake-bite or to being speared to death, etc. The hands are in this case placed below the chin, and the dao and koife garried in life are pat in the hands. The body is put in-the gravo facing south. If the dead man has killed a tiger or a man, the body is buried with the head to the north, but a dao is put in the right hand, in the belief that the spirit of the tiger or the man will be afraid of the $d a o$ and so will not attack him.

In some sections, especially the Tagens, when a man has been killed by a tiger, the bady is put in the grave in a sitting position but a hule is left and a few hairs of the head are drawn out and ties to a piece of the top part of a bamboo flexed from a distance, where it is posted for the purpose. 8hould the hairy give way and the bamboo stand up, it is a sign of trouble to the family ; that is one more man of the family may be killed by a tiger some time after.

Puture ${ }^{\prime}$ ifo.-The Daflas' beliefs as to a futare state are similar to those of the Alas, but they beliove that thore aro vilages ander the earth of people who die a naiaral death and villages in heaven of those who die an unatural death and of children and the still-born.

Physical type.--The people are very well made and muscular, with a deciledly Mongolian cast of faco. There is no hair on the men's faces. They (the men) have straight bair, which they wear drawn forward over the head and bound in a bunch over the forehead with yellow strings and long brase pins. The women plait their hair and bind the plaitg round their heads in a very becoming fushion.

Dress.-The mon wear a rough home-made cloth tied on the shoulders and wrapped round the body; round the waist thoy wear a number of plaited cane strings. Women have a short shirt, and a cloth round the upper part of the body ; also many rings made of plaited cane ronnd their bodies, and a belt of mitian akin five inohes broad with several metal dises fixed on it. Bead nechlaces are much worn by both saxee, yellow and blue being the chief colours,

Implements and wrapons.-Their aystem of oaltivation is similar to the Akas', but they ise only the dao and a pointed bamboo and not the small iron hoe of the Akas.

They have no guns. The weapons are the bow and arrow (with aconite poison), a long spear and a loug dao or sword. They wear aane helmets, more or less sword-proof, and a shield and body armour of mithon hide; somotimes a! bo cane armlets as a guard against sword-cuts.

## II.-By T. P. M. O'Calhagran, i.p., Political Opficbr, Sadiya Frontier Tragt:

## The Khamtis.

Charactor and habits.-The Khantis settled in our area are a race degenerated from their state deseribed in Dalton's time.t The villages are jungle-covered, and peopled by a laokadaisical and opium-sodden people (although it is a question whether opium is a cause of the degeneration or whether the babit is an effeet of the alimate and surronidings and the mental paralysis indnced by these peculiar local oonditions).

[^2]It muat be admitted, howover, that thoy work hard in the folds in the rico-sowing and roaping soasons. The women work very hard. All tracua of new land wetllemuat bavo disagpeartud.

The ohiof weapon is the dao. Thoy dieplay fitful onorgy at timor in villago worke of communal necessity and in olophant hunting, but do not live up to Dalton's doacription.

Arts.-The pursuance of arts is no longer in ovidenoo. The working in ailvor ilosoriked by Robinson (Account of assam) is ant to be found. There are n) ohiofs an denuribud by him, and but few of those workors in metal. The only artiolea manufactured are pipos whloh aro of vory nuat workmanship. "They maintain their own soheols in the "bapuohangs" (templen whore thin Khanti language-written-is tanght by the 'bapua' or priesta). Some of the of men among them claim chat the Daflas wore their foreranuers from Borshamti, wouth and soatheoalt of tho Hurma Divido-n point worth investigating.

## Tho Singphos.

These also havo degenerated from their condition in the timo of thoir forefathors. Thore aro only 12 or 14 small villages on the Noa Dihing river and up to the Dibrugarh boundary.

They are plysivally fine men but opium and elimate have beos their ourac, and thoir oondition is inferior even to that of the Khamtie. They have all more or less adoptod Buddhism bat also continue sacrifices to the spirits.

## Tho Mislmis [Chulikata (cropkaíred), and Bebejiya].

Character.-Bloodfouds. -These two tribes are still in a state where revenge is honourable ant feuds are popular. Alternate killinga are normal ateps in a quarrel through genorations. Dilton's description is rather hard on these peofle.* Now that we know thom better, we lind that thoy ayo a very primitive people with ordinary haman virtues and lailings. They now live at ganeral peace with evergone, particulariy the Abors, whose best customers (for purchase of mithun) they sro. 'The allegation against the ohastity of their women is not true. They are, in common with all tribes of these parts, hospitable. Bees plays a great part in the acale of happiness. Their fend-murdera are normal to people in that primitive state of devclopment ; but they will cease with their closer contact with civilisation opening new interests and broadening their outlook.

Divisions.-They are divided into septs of familices rather than olans. They are numerically small tribes and are endogamons. When the septs were emaller, they hat to marry ont; now men tate wives of the same sept if they are only distantly connected.

The tribes ars animistic. They are polygamous, but only the rich among tham oan afford the lusury of more than one wife.

There are two classes, freemen and slaves, but the slavery atigma is not as lasting as among other tribes. Most of the work is done by the women and childron helped by slavee.

Headmen.-Headmen are chospn to some extent by succession, but wealth and personz'ity also count. They have no jadicial or other powers, beyond initiating discussion and infoencing it in matters of common interest. Within the sept, individuale panish an offender with their own hands. With another tribe or sept, any member will, as likely as not, ponish any member or slave or cunnection. Thus feads are everlusting. l'uaishments ara (1) slaying, and ( $z$ ) enslaving.

Origins. - The majority olaim to bave come from the anrth, i.e., Tibet; bat the Linghi, a large sopt, say they came from the south. The truth is probably that they are the jetagm of immigration floods or. Were driven up or swept aside into the hills and moantains hy other immigrante.

Cultitation.-They oultivate only by jhaming. A bamboo stake is the only implement used, and they do not sow brozdeast, but place a forv seeds in each hole.

Use of stono.-Stines are beaped up over graves, but there are no stone monumodet. Stone is not used for buildings but for walls of byres.

Honsce.-The houses are built on low changs and are divided into partitions with a passage down no side. A lony bouse indivates wealth and position ; clothea and woapons also by their superiority indicate wealth.

- Belirfa alout aun and moon.-Idcas about natural phenomens are very vague; there is no general tradition or folklore known, for instance, about the sun and moon. One story is that all the world in dencerullod from oue father and oue mother, why had five children- (1) Asosmeie, ( $($ ) Chalikata and Bebrijiva Mishmis, (3) Khumtis and Sinıphos, (4) Taruan Mishmia, and (5) a clan somemhero to tho east (? China). Auother atory has it that the sua is the busband of the moon. Thoy guarro'ed and the wils. tio moon, domaniled a ahare of the aun's heat. The sau answernd that bo had to keop all his hant ing his ohildron, i.e., men.' Ho then threm his wifo into a smamp or puol, will the man'i marf:iage are the resulting mud on hor face Tho moon foars to como out by day und waita till the a se: La n gone down.

Huriab cnstums.-"ise lead aro burial in a grnve about 3 feet depp. lioed rith grase amd genoruly not far fron tha louse. The ourpsa is pat on a wiolon couch, fully oloiled and aracd and
 the whole is then cuc.cro! wich stonow, The dead are auil to go down iuto the carth.





[^3]not prononncedly mo. The aquiline noses often fond among the Taroan are seldom seen in these tribes. In general physique they are squat, well built, stardy and broad-shouldered; the head is equare rather than long aod narrow.

Mnsical instrumeats are (1) drams covered with lizard's skin, and (2) horns of baffalo ; these are only nued by medicine men. Bat the Jew's harp is known

Weapons.-Their weapons are the longbow and the Tibetan cutting sword. Their arrows are poisoned with aconite. They wear cane helmets.

Thay look on the huluk as sacred, and it is genna to kill one: it is considered as half humani.
Incest, that is, manriage or sexnal connection within forbidden degrees, is described as 'conduct like the monkey.'

## The Mishmis (Taroan and Miju).

Divinions and origis,-These tribes are divided into endogamons groups and exogamous septs wr Pamilies. Some of the Taroans claim that they were formerly the same people as:the Chulikatas (and the claim is sdmitted by those tribes). They speats the same langaage and some of their ourtome are the same. Bome of the points of difference are noted below :-

Disposal of the dead.-After a death, the body is waked for a day, for an unimportant person; but ap to $\mathbf{S}$ days for an important person. It is then buried for 5 days and afterrards is taken up and burnt. L circalar roofed atockade is built on the place where the body was burnt-usually abont 10 or 20 yards from the house. Arms, clothingeand utonsils are hung up roand the grave, and utreamers on long bamboo poles are put round.

Beliefs about future state.-The ideas as to a future state are vague. The dead are said to go down into the earth. There are medioine men who speak with and do' puja' to the spirits of ovil; ordinary men know nothing of these.

Physical types.-In sppearance the Taroans and Mijus are sturdy and sallowish. Their hair is atraight and is not cut. The eyes ara straight and blackish-brown. The nose is generally flat bat not very broad ; but there are many with regular aguiline noses and handeome features.

Weapons,-The weapon in vie is the orossbow, and aconito poison is put on the arrows. They do not use oane helmota.

Wives.-Generally, when a man dies, his wives go to his heir, except the latter's mother, who goes to the nextrof-kin among the male relatives ( $c f$. Marco Polo's Tartars).


## The Abors.

UYabitat.-The term Abor is applied, though ernnnevasly, to those tribes living on the sonthern alopes of the outer range of the Himalayas, roughly between the Dibang and .Subansiri -rivers, and, within the hills, in the main valloy of the Dihang, with the Yamne and Siyom valleys as offshoots.

Names of tribes.-The tribesmen use the names of their tribes, and the word Abor is nnknown oxcept among the more civilized. They also call themselves adi-ame (hillmen). 'Abor' is generally appliad to the Padam, Minyong, Pasi, Galong and aix other tribes. We are in contach with the first four of these. All of them have traditions showing that they came from the same place and are deacended from the name stock, but the dialects of aome differ.

Erogamous divisions.-All ars divided into exogamong clans and particular care is taken to prevent intermarriage. Among the Padam the rale has bean relaxed of late years owing to the size of the clans. Bach clan is subdivided into smaller clans or families with endogamy strictly forbidden within them. Henvy peoalties are exacted for any breach of the rules. ilhe Pasi, Padam and Minyong frequently intermarry, but there is only one known case of the present day of a Galoug marrying into ono of the firat three tribes.

Polyardry:-Polyandry is common among the Galong, and is not necesarily confined to the poor, For instance it is quite usual in this tribe for brothers to have sexual intercourse with each others wives until they have given birth to their first children.

No inetancas, howevor, of this appear to have come to notice among the other tribss, not even amony the Miria-unless the latter are Galong turned Miri, i.e., Galongs who have descended to the plains and beve eithor beoome absorbed into Miri villages or have, thongh living in separate vilages, argely adnpted Miri habita.

Division into 'mipak' and " missijng".-Among the Pasi, Padan and Mingong tribes there is no division into clasees with a definite social order of provedence by olan; but every member is either 'mipak' or 'misshint,' i.e., considered outcaste or not. 'Mipak' has nothing to do with exogramy. Certain persons and families, however, bave been considered mipak for some generations, and sexual intercoures with them suffices to make the other party wipak, and so on. Brolhers and sisters of a mipak are not wipak unless thoy have beoome eo by heredity,

A mieshing is froe to marry a mipak, but this is not generally done, it the fact is known.
Among the Galongs the enme divisions ocout, but certsin entire clans are mipat (the Galongs call it mira) and the division is more marked. The Galougs consider the other three tribes (Pasi, Padam and Minyong) mipak, and vice eerad. All the tribea regard the Assamese, Miris, etco, as risipal. lainpes of serfs, where they exist, ane slon enipat


#### Abstract

Mealmen.-Thers is no partioular olans or olan from whioh chiof aro eotiroly drawn. In fact, the practice of calling a partioular man, headman, can be tracod to Mrilimh inlluonco. Nowulnya a tendency to keep the gamship in ono family has arinon. He in ohonen rathor for bia knowlodges ot tribal history and the proceduro of the village than bis possosaion-though ho would bo a poor pum if he fuiled to attain these I

Tribal governmonit--Government is osseatially democratio, ospocially among tho Padam, Prui and Mingong. Thore is a rogular Couscil Chamber and all villogo mattors are devided jn jl. Tha council bas several recognised apokesme=, who lay down tho law on tho point nit inate, and whowo cleim lies in ability to reoapitulate tribul history further baok than anyone olso. Thia rueapitulation of clan history is a featare of every kebang (village coancil) and it may ba nome dayn bofore the point at issue is souohed on. Having given a decivion (which se'dom ooours), the kebung oongidore itn duty done and does not think of enfurcing the orders, knowing full well that there would be amull obanco of its being able to do an. Every villazer does much as he pleases without troubling what tho koliang may order. In certain affairs affecting the whole village, e.g., tho aito of now cultivation or the trapping of fish, the kebang decisions are usually upheld. The prinoiple of British rule almo in to make the kebange decide petty tribal cases and enforce thoir decisions, bat outside our infuonee the vituation in an described above.

Among the Galongs a more fécdal state exists. The hoadmon aro more influential and thuir commande are generally obeyed. They have no kebangs or formal conncile such an are found among tho other tribe3, and no coutcil house in the village; nevertheless they do hold discussions, aud tho boadmen are not all-powerful.

Traditions of origin.-In none of these'tribestare there any traditions of origin which go back very far. All claim origin from one race or tribe bettled at' Kiling, in the Bomo Janbo country. From Kiling, part of the tribe journeyed south across the Siyom rivor and occupied the hilly onontry between that river and the Subansiri and Brahmapatra: there are now known an Galongy. Othery crossed the Dihang or settled on its banks or neigbbourbood.

There are no traces of terraozd sultivation, and the efforts of Goverament to introduce it have found no iocitators. Land has been sutficient for jhuming, on the whole, though it is scarco up the Dihang.


Houses and materials usetd.-The materials ased for housing ane bamboo, thatecing palms of different kinds and wood. The honses are built abont 5 feet from the ground. Posts are not used, but numbers of pieces of wood, 4 or 5 at an angle resting on the surface, take the place of a post. The floors are of split bamboo (not interwoven) and walls are of rough planks. For the roofy, palm-thatch and wild plantain leaves are used. Stone is not used in building nor are there any stone monuments There is no restriction on the use of wood. In type of house, there is no distinction between individuals.

Distinction $\begin{gathered}\text { in } \\ \text { dress.--Some of the Padam, Pasi and Minyong Abors wear long red coats }\end{gathered}$ imported from libet. Among the Galongs such coats are worn as a sign of distinction, but the headmed sometimes affect greyish-white coats from the same soarce. The tribesmen are usually so poor that they cannot affort to bay these coats, so it is doubtinl if they are specially reserved for headmen.

Ideas on sun and moon--None of the tribes have any fixed ideas regarding the sun, moon and stars, though there are various fairy tales about them. The Padam, Pasi and Minyong make the sut male and the moon female, while the Galong consider them both as "objets d"art" and bence of neuter gender. The moon's markings are assumed to be the body of an animal living in it. There are
no theories as to eclipses, save that the animal in the moon is put out for a time owiog to the displeasurs of the Almighty. Earthquakes are said to be caused by the movements of a large animal living in the waters under the earth.

Burial customs.-All the tribes bory their dead in mach the same way, the Galongs digying graves a little deeper than the others.

A hole about $4 \times 4 \times 4$ feet is dur (by the Galongs 6 feet deep), and logs are put on the floor. The corpse is laid with the head to the west so as to face the rising sun. The legs are donblud uader themselves and the bande drawn ander the ohin-in fact the body is placed much as at birth. In one haud a small koife is placed, as an aid to getting food on the way to the spiritual home. A framowork of logs is made diagonally across within the grave and leaves are placed on it, to prevent earth from falliag on the body while the grave is filled in. A lean-to shelter is made at the top of the grave and under it a fire is kindled and maintained for a year (bat for only five days in the ea-0 of the Galong). A gourd of rice beer is tied under the sholter and various garments of the deveased, togethor with any heads of withus_ete, killud by him and used to fuast the commanity, are saspended on dosta near by or under the shelter.

Abode of the departed. - The Padam, Pasi and Minyong believe that the spirits of the dead roturn gonerally to the land whenoe the race origiually came: thix is in the case of death from ordinary cantes or illaces. If the death be due to opidemio disease, such as cholura or intluenza, the spirit deparis to the went or south.一ie., tho direation oppusito that in which the land of their fathers liese. But among the Gulang it is aupposed that after death the spirit booames the slave of its own purtieular duity. Nonv of these tribea beliovn in auy trunamigration into ingeots, binde or aminala

PAyacal tvpes.-The Abors are short and atoukily buith but their sturdiaces ratio ae the country thuy live in. 'Tho Pudam are aliphitly tallor than the rest. The complexion ia sallow, with straisti oy'ue, uatually black. Tho face is gonerally that and the forohead broad. Wamea ussailly haro cattoo murky on their fucen.

The nusu in upturned, with wido matrila, but many boast almoet manilive nowes. The buir is


women and children all out their hair like the meh, bat the Galong women grow their hair long, drawing it back along the sides of the bead and leaving an even parting down the centre; it is dramin beck to tightly that it often has the appearance of being painted on like that of a Datch doll
/mplements. There are no special agricultaral implements among any of the tribes; everything is done with the dab and the axe.' For sowing, fotur or five seeds are placed together in a hole with the aid of a pointed stick.

Murio.-A crade form of bagpipes is common to all the tribes; this is the ohief and practically the only form of musioal instiument. A dry gourd takes the place of the wind-bag, and a special form of fine bamboo the chanter and pipes. There are three pipes besides the chanter, which is perforated and plaged with the fingers in the ordinary way. Another instrament found is a sort of Jew's harp of bambao and fibre.

Weapons.-The chief weapons are the bow and arrow, the dao, and a long Tibetan sword. The oword is only carried in time of war.

For head dress and for proteofion against sword-cuts, hats of plaited cane are worn. These aré worn a good deal also in time of peace, especially by those living further back in the hills. The Galong hat is of different shape, very often tesembling an ap-to-date bowler hat.

Thore is no history of bead-hanting among these tribes. When enemies are kille] in battle, thé hands are occanionally out off and hung up in the moup or council-obamber; the head is never cat off.

Vory little tribal fighting has occurred among these tribes, their motto being that the tongae is mightier than the aword.

Unlize their castern neighhours, the Mighmis, killing their fellow-men has been and is still regarded as a sorious offence: this forbearance, however, only applies to themselves.

## The Miris (of Sadiya Frontier Iract).

Origin and divisione.-The Miris are mostly descended from the Abors living on the banks of the Dihing, Brahmaputra and Dibang. Their language is similar and their customs are very similar to those of the Abors, but Hinduism is rapidly ohangiog those furthest away from the hill people. There are four big clans. Two of these deveended from the hills not many generations ago, but many are escaped or driven out slaves of the Abors. The (hutia clan of, Miris is suppised to have come up the Brahmaputra and mingled with the others. Probably, though; they came first from the hilla and wont on for a safe distance, returning afterwards apstream. Before the British ocoupation of the Abor oountry the Miris were traders and interpreters between the Abors and the British. There is no social division into olasses.

These big olane aro divided into smaller exogamous olans kept as diatinct as possible, but of late years there has been much intermarrying and relationships have become involved.

Tho organization is democratio. When near the Abors, the Miris adhere to the Abor castom of kelangs.

Appearance. -They are of sallow complexion, similar tn the Abors. Their features are the same, but the hair is either kept long and knotted at the back or is out evenly round the head. The latter in the modorn fashion. The women wear their hair long and drswn back straight, but without a parting. Tho physiqut is good on the whole. The ejes are as a rule black; the forehead broad and the nostrils wide ; the face io flat and round.

Weapons.- For weapons they uge the bow and arrow and have also a few old guns. There is a sp cial long kind of arrow for shooting fish. All carry a dao. There is no trace of hesd-hunting among the Miris, and their weapons are carried for the ohase only.

The beliufs of the Miris of the Sadiys tract about the san and moon are similar to those of the Abors.

Burial of the dead.-The dead are baried, and the corpse is laid flat on the bark, with the hands olaspod undor the ohin and the legs out atraight. A double lean-to logs is made over the body to stop earth falling on it, and another double lean-to ove the top of the grave. When bhakats or village priests ars buried the soil is not kept off them, bat the grave is filled up in the ordinary way.
No reason for thin is known.

## IV.-By G. C. Bardabij, Extra Aseistant Coymisbionbe.

## The Miris (of Lakhimpur District).

Divisions.-There are really no exogamons olans, as, though there are clans not as a rule intor-marrying, yot run-away marriages are prevalent, and the partios are not es-communicated. But, they may be groupod into two erogamons divisions composed of geveral clans :-l. The Chatia. (Dole, Pegu, eto.) ; 2. Aingiya (Taoit, etc.), Mayangiya (Nara, etc.) anil others.

The cluss-ship tie is much loosened, and social precodence undetermined, as a'l are now living peacefully under the Government. Every olan olaims saperiority to, others. Probably the Dole

Headmen - Chiefs in the Mayangiya and Dambukial.
from his relatives on the male are chosen always from that olan, from the gam's family or if necessary The Miris have a social demooratio organiza is no special clan for supplying gams or headmen. rule the combined wishes of the poople. Orizion, with the gam as president, but he cannot overdiffurent villagea. Now each village bas generally a gam.

Tradition of origin.-Their tradition placos their origin at Abu-Killing, in Aknharlumla near Memba, towarde the north and beyond one rango of mountaing, All Miric are anid to liavis come from thore. Tho majority (nuw Hindus) may thoy aro descenclanta of Rukahma Vira of the Mahabtiarat.

Implements.--For cultivation theq are the ordivary plough and a boe, tho oultivation boing all in plains land.

Ideas of celestial bodies.-The sun is in male and the moon a famsle dolty. The atarn ant cometsare doities, but their sox is not defined. Orion's belt is aupporod to bo goung man and the Pleiails a young girl; the young man is alwaya cbaning the young girl, whom ho enn nover catch. The markings on the moon are gaid to bo human exoruta. Thero wha a cortain fontivid of the gods and a quarrul occurrei between the moon and anothor doity: the lator thruw soaco excreta and hit the moon, and the marks are oven now visible.

Disposal of the dead. -The dead are buried, corpsos of persons of position huing pat in a doofln or bnx, with new olothes on ; for others only a piece of oloth or a mat is used. Tho corpwe is put on a layer of wood; then auother layer of wood is added and on top of this oarth is placud. A mound four feet ligh is made over the grave. Foraer'y brass oups and cloths were put above the grave, but this practice has ceased.

Life afler death.-After dearh, according to one set, the doad meet thoir paronta and forutathars underground in the abode of the dead. Otherg believe in tranymigration : the monla of tho good are reborn as men and those of the bad as animals.

Music.-The musical instruments in use are the melon-banjo, the bamboo Nuto, drums and oymbals.

## APPENDIX C.

# ON THE CONNECTION OR DIPPERENT NAGA AND OTGER TRIBES IN ASSAM, - their origins and certain customs. 

By J. H. Huzyon, c.is., 1.os., Deputy Commgsiongr Naga Higla, and Honorary Drector of Etanoglaphy, Assam.

Naga-shabilat.-A Iove for old sites has often been asserted of Naga tribes in contrast with the Kukis, Garos, Kacharis and others. But this is not true of all Nagas. It is marked only among the Angamis and even thoy count back to a migratory stage.

It is difficult, if not impossible, to give a test by which to distingaish a Naga tribe from other Agsam an 1 Barma non-Nagas. Naga is a useful word to denots the tribes living in the area bounded on the north-ast by the Hukong Valley, on the nurth-west by the Brubmapatra Valley plains, on the south-west by the Cachar plains, on the asst by the Chindwia and on the snuth by tho Manipur Valley, which last is the contact print roughly with the Kukis (Thados, Lushais, otce.).

Inmigrations of the past.-This area has roceived in the past at least three great-waves of immigration :-
(1) From Tibet and Nepal (Singphos, Akas, Garos and Kacharis).
(2) From Southern China porose the Irawadi Valley (the Tai races-Shans, Ahoms, Tamans, atc.
(3) From the south. This wave has bardly stopped yet, for Lashai-Kaki mirration was still going on northward till 1918, when it was stopped from spreading into the unexplored arean noth of the Ti-Ho river by driving the newly-formed colonias bact across the the river, before the Kuki operations.
Tho Lushei, Thado and other Kuki tribes are probzbly another branch of the immigration from the north; but if so, they must have first'gone south and then turned north again for they drove np from the south in front of them the old Kukis, and perhaps that very different race which liecnme the predominating factor in' the Angami Naga tribe and whioh has probably entered in a desser degreo into some of its neighbours.

The Angamis (or the anoestors of part of the presest tribe) were uadoubtedly located far to the south of the present Naga Hilis.

Also we have (4) atill another immigrant element in the Kol-Mon-Annam occupation, which cortainly extended over a part of the present Naga area. The Bolo race itself seems to be connected with the Munda and Mon-Khmer families, and all were probably preceled by a Negrito race, such as tho Andamaness are, which was partly expelled partly absorbed. Traces of all the above races aro to be found in the culture and composition of the tribes now known as + Nagas collectively,

Traditions of origin of Naga tribes. -Naga tralitions of origin indicats almost all points of the compass:-
(a) The Konyak tribes ascribe their origin to the hills to the north and to migration from the plains in the west and north-west as well ; though others with Singpho affinities say. that they came from the north-east. One or two villages claim to have come from the south (the Ao country).
(h) Some of tho Aos like some of the Lhotas are said to have come from the plains to the north-wost, but the majority claim an autochthonous origin at Chongliemdi.
(c) The Khoiraos oluim a western origin, from the plains of Assam.
(d) Thu Semas gay that they oame from the south. A connection is traceable between them and the Khoiruos of Ngari, pointing to a western origin. These Semas of westero origin nonnect with the Kacharie, Garos, Lynngame and Bhois. The Kacharis, while allowing Nayna, or oertainly Kachoha Nagas, to eat and aleep in their porches, refuse to allow Kukis inside at all, holding that Kacharis and Nagas were originally descended from two brothers, whereas Kukis are complete aliens.
(A) Others, fur instance the Kalyo-Kengyw tribe, claim a northern origin.
(f) The Southern Sanglams derive from the Chindwin Valley ta the south-east, while the Northern Sangtame merely point to the south. The Tamans in the Chindwin Valley lived at one time in the hills to the east and then returned to the Vahley joaving some of the tribe behind. These might be conneoted with the Southern Sangtams. In any cass they trace their origin to southern China, and their descendants are still presumably ropresented among the Nags tribes.
(g) Tho Argami also afford indiostions of mixed oriyin. They came from the south-east, first from Tangkhul country to the south, but traces of terraced caltivation are found far to the south in the Lusbai Hills and possibly they came from further sooth still. The Anganis regard a spirit in the sky as the ancestress of them all. Part of the tribe claime a sonthern
and part a south-western- origin.
( ( ) The Rengmas say that their origin was in the south. ${ }^{i}$

All the Naga triban have legonde of olana denconded from indigonoun women out of onvou, or from wild men oaught iu the jungle, e.g., the Lbotas, the Phoma, and tho Angarnin of Kolima

Physical typa: difforences.-Thus oach tribe has traditions whioh oannot bo ruconoilod with a homneyo neous origin ; and marked differencos of type are traconble ovorywhore, ovon botween imilividaale of illu same tribe. The Angami are tall and well-proportioned, the Tongina and Momo sub-tribus having atraight eyes and noses sometimes even aquilino. Their fenturen are in any oano far moro rokular than the Mongolian-looking Soma whotenila to a fint nope and oblique eyos aul a alort "quat hguru. The Angamis are also dietingushed by huge calver, for whioh no explanation is affordad by lueul conditions as cumpared with other tribon suoh as the Semas or tho Chungo. Tho big oalt is almo typioal of the Kuki, who it otherwise, however, wnoh more stocky in build.

In colour there is much variation and differonce of altitudo by no moans acconnta for all of it. There are generally three types-a atraight-baired light brown, a wavy-haired brown and a oriup-hnirid dark'brown, correepponding to Ratzel's division of the races of Indonenis. Gonerally the prodiominunt colour is red and this is most popular, black and whito boing connidurod anbwooming, though blank more sn than white. In high altitudes even the tint of blood is seen and a bluah oan offen beg detected. 'The 'fair and sallow' type is found at all altitniles; it appearn oven more among the Ass and Konyaks than among Manipuris and Kukis. The children everywhore have ruaty reddiwh huir tarning black later. Rarer than tho sallow is the dark brown and fuzzy-haired type aukgosting the Negrito: specimeno of this type are found occasionally in all tribes; but it is commonont in this north anong Phome, Aos and Konyaks and again in the south in somo villages of Kachohn Nugan in the North Csohar Hills, sugge,tiny that the race which bequeathed it was puehed apart from the centre. Fuzzy hair is always held in derision.

Cephalio indices suggest a connect:on between Aos, Manipuris, Ahome and perhaps somo othor sub. Himalayan tribes, due perhaps to the infusion of 'rai blood.

The dead.-There are various methode of diaposal of the dead ; these are dealt with in a separate note.*

Wcapons and implements.-Some of the weapons and implements in ase aming Naga tribos are of marked northern type, and others are olearly connect:d with Indonesian forms like those of the Igorot of the Philippines; other patterna again ahow e:milarity to the Kol-Mon-Annam type. Of the northern type are the Kaboi dancing dao and another dao for real use. I have in my posseasion ono of the latter kind which is like one figured as a Bhutanest weapon by Butler (Sketoh of Assam, 1447). The obsoletg Lhota yanthang is also of the northern type. Both theso Naga daos are remarkable in that the iron haft projecte beyond the hilt, as in the Garos' and Khasis' daos-probably to otiok in the ground while sitting.

Spears with ornamental barbs resemble those of the Philippines, while some patterns of Angami spears resemble the Igorot spear. The stone hammer need by all Naga smithe is also found in the Philippines.

The Yachnogr Naga hoe, obtained from a tribe almost isolated from regular intercourse with ita neighbours, is just like a Khasi miniatore sweet-potato hoo. S. E. Peal reported a equarer type of shouldered hoe among the Konyass. Both types are like the Battak hoes from Sumatra and similar in sbape to the obsidian blades of Easter Island.

Bows.-The crossbow is the weapon of the Singphos and has been adopted by the northeastern Nagas ; but it is not in general use, though the Lhotas snow it. The longhow also is not the natural weapon of the Nagas : the Semas believe their ancestors used it, and the Angamis have learnt the use of the pellet bow. This is of interest as the bow is almost entirely absent in Borneo, Sumatra, Java and the Coleles. It is, however, possible that it has merely been discarded, as both the Angamis and Semas retain it as a toy.

Indications of diverse origin.- Diversity of orgin of the Nagas is suggested by varions other thiugs. For instance, the reaping hook is used by mnst tribes, bat the Semas use the band, like the Garos, Bhois and the Southern Bré of Burma; the Thalo Kuki savs he nged to do so, but now a.ed a sickle. Again, the Angamis have an elaborate syshem of terrsoed caltivation, and this is also practised in some Khoirao and Kachoba Naga villages, but little among other tribes (among the Semas it has Leen introduced by Governnent deliberately). The terr ice cultivators are the mo-t frequent nsers of megalithio monumvats. Woorlon posts and Y-poits are used by Samas, Sangtuas and a fer others, while the aos use round-topped posts. Some tribes build their housei vn the groand, some on platforma.

Divisions within oribes vary, being sometimes dual, sometimes triple. Sone aro, nominally at any rate, exogamous. But the oxogaulous syatem is complicated by aubsivision and adoption from group to group. Sume grougs have different w.rde for mother and oiher wrme of rolationship

The polity in the villagse shows differences. Among the Semas the hereditary chirfs are feukdal lorde, as alvo among the Chnagy and Thado Kukin. But Ao and Tangthul village hare bouties of oldere roprumenting the prinuipal kindmede in the villugo, while the Ansami. Rengma. Lherta, and (appurently) Bangtain villagua have a ayst $m$ of extreme domocravy. Tho Anganis, however, buve hureditary priesta trom tho family of the firat founder of the village.
'The boliof anong the tribon is univernal thut tho souls of tho doad becouse butterlies or inserte. Agnin, in the future worlil the ehadew of the dand yn on living juat as in thio world. Most say thut the future world in undorground wail that the puth to it is aloug a narrow nevanmes trait guardol by a dankerous girit, a boliof fropuently fund in Molanoes.a. Tho anrauia be iow that


 enrentuly.

Lycanthropy in practived by the Semas but not by the Angamis, though believed in by both So in the Kian Hills with the Lyogams and Khasis respectively.

In foliclore, some stories are common to all tribes of Nagas and others are not.
In language there is a decided cleavage of certain gronps. The north-eastern group seem to approach nearer to Bodo and Kuki than to the Centrai Naga tribal langnages.

Condurion as to origin of Nagan.-My conclosion is that no Naga tribe is of pure blood. The tribes are combined of elementa due to immigration from at any rate tbree directions, north-east, north-west and sootherv, the people having been pushed ap from the plains of Assam and Burma by pressure. We may speculate that at a certain stage a Negrito race, at a later an Austric race of Kol-Annam or Mon-Khuer type was in occupation, leaving traces in the implemente and perhaps folk tales now found. Then came a definitely Bodo immigration from the north-westion west, and by this perhsps the Y -shaped poste, reapiog by hand and indications of a matrilineal system have been left. There in, beyond dispute, a mixture of lai blood from the east also. The immigration wave from the sonth is obvioas enough, and possibly brought ap elements of popalation from soathern Burma wedged in among migrating tribes. The Angamis are probably related to the Igorot and possibly uther Pbilippine tribes by blood or calture or both. Farther, these soathern immigrants perhaps already consistel of two parts, one seltled and cultured, the other barbarons bat warlike ; and the Angamis may hava inherited certain oostoms from both parts of the tide. On the other hand it is poasible that they contain bome Aryan element from the other side of India canght ap among inigrating tribes. Lowin ascribes such an origin to the Chakmas of the Chittagong Hill Tracts and Daris finds Aryan blood among the lolos of Yunnan. The Angamis are quite as likely to have it as aither of theme.

## APPENDIX D.

## ON THE DIBPOSAL OF the dead among naga thibes and others.

By J. H. Hutton, 0.L.D., 1.0.e.
(l) Euraing is praotized only by Hiaduiend Manipuris to tho mouth and ono anotion of the fingphon to the north-east, but traditions of triboy practieing it are found among Aos and Changs.
(l) Burial is the practice of the Angami, Sema, Rengma, Lhota, sangtam, Tangkhul anil Kachcha Nagas, and the Eukis. But such burial is not alwaya absoluto. Thue Kukia, whon a great person has died, sometimes put the head after deoomposition into a oloft on the side of a cliff, This eustom is rare, but certainly exista or existed among the Thado Kukis, Some Konyakn atill place the skulls of their dead in stone cysts.

The Yachungr and some Soothern Sangtams bury the dead invide tho house under a bell, and often disturb the grave and dig out the bones to make room for a new corpre.

The Tangkhyls and some Naked Rengmas baild amall houser over the graves, with littla laddore leading to them for the ghosts to.inhabit. The Lhotas, Sangtama and Semas build thutohed roof: over graves, auggesting perhaps that ther formerly exposed the bodies in miniatore bousor-just as Aos who hava become Christians bury their deed but put thatohed yoofe over the graves.
(3) Platform exposure is the rale north of the tribes mentioned, the body being mometimen moked first. The platform used is a bambon shelf with a thatched rook.

The Phoms and Konyake wrenuh the heaid off the body after deonmposition, and then put it in 4 pot in a separate place or in a niche in the cliff. Both these tribes bring the heade ioto the honne for a time and treat them with some ceremony.

The Changa both bury and expose their dead-indiscriminately.
(4) Desiccation.-This practice is followed by the Kalyo-Kengyu, or part of thom. The dead are smoked in their houses for two months over a fire and then retained in a pooden coffin like a lidiens box, with e mat to cover it, either inside or just outaids the mat-wall, and ander the eavea peareat the hearth.

At the next sowving, on the firat day of the soming genna, all those who have died sioce the last year are brought out and their withered bodias broken up, the bones being pioked out and counted by a number of persons, male and female, slightly less for a woman than for a man. The bocea are then put in an earthen potat the back of the family granary and ars not touched ontil they divolve into dust or until the granary rots and falls on them. The broken bits of the hody and the coffin, eto., ire thrown into the jungle, preferably over a ateep place, near the village.
(0) The disposal of the frontal bone by throwing it into raning wator is worth notice. The Kacharis burn their dead but save the frontal bone to throw into the Kopili, or come other atream The Manipuris, Hindus as they are, keep the frontal bone to be thrown into the Gangean but we may surmise that their custom has ite origin, as that of the Kacharis doubtless has, in a special veveration for ruaning water, and indicates a commanity of cultare between the two tribes in their pre-Hinda state.

## APPENDIX E.

## Summary of notes on some cottage indxatries of Barimgani.

> (By K. C. PuEkayastea, u.A.)
> I.-HANDLOOM WEAVING. .

1. Twenty years back this industry was on the declive in this district and very near!'y dying. History. It received a tremendous stimalus as a result of the swadeshi movement of the partition days. While middle cla*s youths lost time and money in trying to earn a living from the $\mathrm{loom}_{4}$ the hereditary wesvers, the Naths (Jugisj, found a saviour in the weaving movement ; and the war by inflating prices brought them prosperity.
2. The demand for their outpat is mainly local and rural and therefore only for coarse cloth. The demand varius with the season. The busy season is winterfrom mid-November to February-when cotton weappers 3 yards $\times$ I $\ddagger$ yds. or 6 yds. $\times 1 \ddagger$ yds. have a very strong market, while full sized dhutis 5 yds. $\times 44^{\prime \prime}$ are also actively sold. The slack season is roughly from April to September.

Daring the buay eeason the weekly sale at Narsingpur Hôt reaches Rs. 50,000 (on the testimony of axport weavers) ; while daring the slaok season I oalculatel a total weekly sale of Rs. 5,000.
S. Charka-spun yarn has not found favour with the Naths on account of the tedions procesa necessary to peepare it for use in fly-shuttle looms. Manchester yarn is almont exclusively ueel. l2's and 14's are the connts chiefly woven ; finer yarn is rather of an exception. Ignorance of methods of dyeing fast-colurrs leaves the Naths at a disadvantage compared with Julas of the neighbouring Bengal dis. ricts of Tipperah and Noakbali. Fly-shuttle looms are made by local carpentera from local wood or with bamboo frame work, at cost ranging from Rs. 15 in the formir case and Re. 9 in the latter.

Like most cottage industries weaving is done in the intervals of cultivation, and the whole family participates. Usually one adult wesver will have two underworkers (lood!! called jogaliy) and will turn out 10 pairs of 41 yds. coarse dhutis per wesk, unleas farm work happons to be spzcially heary. He usually works in two shifts. The morning shift may continue till 11 4.M. He resames work again in the afternoon at about $\mathbf{4}$ P.M. In the busy season he begins his first shift early and leaves off work late at night. Düring the off season or when agricultural work is heavg he stops wearing or roduces bis hours.
4. One inter rating feature of this industry is that it is almost entirely on a cash basis; little Dietribution, purohane and eale. businese is done on oredit. The Marwari werchants, who till now control the market and dictate prices, demani ready cash for their yarn. The weaver bringe his cloth to the mark. t, when middlemen paruhase it from him for casi. The middloman (locally paikar) sells it to retailers for cash. This is perhaps the only in lustry in which thore has so far beyn no serions grievance against the middlemen, whi, by the way, are themselves Naths. But with oversupply-local supply exceeding the local demand-the middlemen will become a menaoe to the weavers. And at the tiue of writing signs are not wanting that the danger is not far aheal.
B. The ohief mart is Narsingpar. It is owned and managed by the Nath commanity for their own benefit and has 500 members on roll. It meets wrekly on Marts. 1 huradaye from about 12 s.M. to 2 p.an. The sales range from Re, 5,000 por weok in the elaok season to Rs. 50,010 per week during the busy months. I estimate thot the total annual sale comes to about Rs. $6,00,000$. The total sale of yarn at Karimganj is over B, 00,000 and my caloulation is that when-woven the market value of the cloth is roughly Rs. $9,00,000$ for the whole sabdivision.
6. Priceas at Naraingpar are quoted in terms of per 4 pairs (lucally hali). At the time of my
pricos and earninge.
enquiry the mean quotation was $\mathrm{Ra}_{\mathrm{s}}$. 11 per hali for 9 cabit dhutis or nearly 5 annas per yard length.
At tho time of my enquiry cost and profits to the weaver worked out as under :-
Bevonue (per weok). $\quad$ Cost (par weak).

Rs. A.
Rs. a.
10 pairs of $4+$ yds. dhutis at Ris. 11
2 bundles of yarn (18's and 14's) por hali (4 pairs)

| at ${ }^{\text {ars }} 10{ }^{\text {Dje }}$ |  | ... | 20 | 0 |
| :---: | :---: | :---: | :---: | :---: |
|  |  | .." |  | il |
| Net profit (per week) |  |  | 20 7 | 8 |
| - |  |  | 27 | 8 |

Hence monthly earnings of the family would be Rs. 30, provided they work average time for the whole month. As a matter of fact, fall time is not put in, I have been told; except during the season. This profit can go ap to Rs. 52 and more if they weave 40 's or higher counts. . But local domand for finer connts is limited and precarious, and pinducers are not able to take the risk of manufacturing for distant markets, for wait of any form of modern organisation.

## -II.-BA.MBOO MAT'S.

1. This is un cld local indastry whioh has beon growing in volumo and valuo with incroaming Uees and domand.
facilitien for export and inoroaving demand. The induatry is ounlinod almost ontirsty to Namanadra, who udortako it au a nubwidiary occupation to agricultare (bat the position of the two ocoupations in bocoming rovornod owing to tho Namusudras losing their land).

The demand for mats is both local and external. The local nee of bamboo mabu is ohiufly for-
(1) temporary walls and sheds, oto.,
(2) roofing for country boats.

The external demand is besides the above for use also in-
(3) Jute godowos, (4) Briok fields, (5) Shipg.

It is really the last three soarces of demand that are reeponaible for the prosent growth and aizo of the industry.

The demand varies with the season. It is atrongest from autumn to apring. Shaknom sets in. with the onset of the monsoon, and the market is weakoat in July and August, In this period, the brick field demand has ceased and the juto godown demand has not yot bogun. At the same time large supplies of forest bamboos have been brought down the rivera, tonding to lower production costs and opening of water communication aleo rendoris local marketa more accesuible.
2. The average price per hundred pieces of bamboo mata obtained by makere in sbont Rn. 814 Prices and earning.

The average export price (at Karimganj) is bolioved to bo Rn. 6 (if not higher). The total tarn over per year is entimated to range from 50 lakbs to 75 lakhs of pieces. The estimated monthly output and income per.family are: :


This cottage industry too is worked on the family system, men doing the work of preparing the bamboo and women weaving them. They usually work for 2 days per hat or 4 days per week Fingers are liable 'to be injured if work is continued from day to day. With ordinary speed He. I to Re. 1-6 per week is the average income per family; while Rs. 2 to Rs. 2-12 represents the limit of the family's earnings. I take 3 able-bodied adults (men and women) to be the strength of the average family.
3. The distance that separates the mat-makers from the jute centres and from the Calcutta port on the one hand, and from the bamboo forests on the other ; Diatributing agenoy-middlemen. and, eceondly, the volume of the trade and the want of any organisation of these cottage workers to handle so large a buciness, have afforded facilities for a distressingly long obain of middlemen to squeere themsalves into the arrangement.

First in order comea the purchase of raw materials. The extraction of bamboo from the forest is done as an annual business by a certain class of people. In most cases they prefer to sell their etook to wholesale purchasers who carry it to the priacipal marts and make a profit by reselling to local dealers, or the paiyaddars in certain oases. Tha mat-makers purchase their supplies of bamboo from either of these classes of poople. Tho former generally sell for cash or short credit; while the latter prefer to advanoe bamboo, eharge higher (than market) rates, and in the banguin bind the mat-maker to sell his output to him at lover (than marset) ratee Obviousls the producer stands to lose at both ende by the lattor arrangement. Credit rates for bamboo are often an high as 25 per cent. above cash rates; and the difference is seldom less than lat percont. The mat-maker rarely extracts his own bamboo from the foreot. He takes the bamboo and propares the mats. Ho has noxt to dispose of bis ootput. There is the paiyadder ready at his door to buy ap the wholo stook. Ho hne cither advanoed him bamboo or, as mare usually is the case, he has allorod bim to overdraw a oertain aum nominally free of interest ayrainat mats doposited. on condition, first, that he aelle his entire outpat to bim alone, and, secondly, that he should give hime pair af mats to the rupeo above tho markot ratee for cash sellors. For axamplo if the rate for mata in Ris \& por handoud pieoen or I Y p pairs per rupee, for those with a book aocount the rate would be 1s p puire per rupen It is obviouly to the interest of the pidydidar to tempt the producer to take an advanco and sell wo soluced raten. 'Thia is alivays done and advances are allowed to atand over trons year to yeur. The pulipudidr's clienta are hin bondaman ond the olient is, I am told, iosultod and aut unoftoa musauimed, It ho is found velling to any othur persoa. This ic not ouls dona in the case of a man who hus himmele taken an adrance, poasibly a deoade or fiftoon yotare aso but atse for aidranow tukrou by bia
 coavinera at tho end of the olusia ars rewohod.

4. The ayotem has completely demoralised the Namasudra mat-maker. The obain of nunécesResult of system. sary middlemen leaves him too small a margin even for mere: animal existence and his oniy escape now from the operation of this beartiese exploitation is through underhand salo. The problem is to eliminate the now useless paiyddar and umaller merchants and to bring the matmakers into direct toach with the atevedores, : brick fields, and jote oentres, or at least with the exporting merchants of Karimganj. As regards the latter, the following table will show how far the producer will benefit by it :-


By eliminating these two unoalled-Es middlemen by the simple process of organising co-operative sale societien, the inoome of the Namasudras conld be doubled.

$$
\text { III. }-P A T I .
$$

Pati, also known as sitalpati, i.e., cool mat, is one of those old industries ' of which Sylhet is justly proud. A hundred years baok, sita/pati made from ivory formed a regular áticle of manio faoture in Sylhat. But the industry is now not merely decaying but actually dead, and the delioate art of making patis out of ivory is possibly lost too. I saw a specimen of iyory pati in 1906.

Kurla* cane patiz, however, are now having an increasingly large volume of business. The present note is confined to murta patis only.

1. Qualities and uses:1
(l) Ordinary qualities are used as-
(a) A covering for the bedstead.
(b) Something to place ander the bed.
(c) A convenient "Camp chair ${ }^{\nu}$ in villages to spread out when there - are guests to
reocive.
(2) Shap or long pati-for coremonial oocasions, meetings and musical performances.
(9) Sitalpati (proper) :-

Vory fine pieoes are spread out on the bed during summer and form laxurionsly cool coverings that easily induce sloep. They are real works of art, and good pieces 21 yards $x$ it jards may command a prioe up to $\mathrm{Rs}_{\mathrm{s}} 100$ each.
(4) Flior mata :-

Eurpoan sojourners in the plains use it as in floos reovering, for whioh purpose furnishers.
will out up a long pati and will out up a long pati and weave the sides into perfectly whole joints with the appearance of one single pafi extactly fittine the room.

## 2. Direction of the demand-

Oxdinary palis are atrongly in demand all over Eastern and Northern Bengal. Calontta is a brisk zalling contre, While Burma is a paying market. Upper. Assam is taking larger quantities ovory ycar. Mymonsingh eeoms to be able to consume oheap patis almost in any quantity.

The demand might increase very greatly, if efficient organisation for pushing on sale existed. Here I foresce a wide fiald for coopporative sale sociêties.

## 3.-Location of the industry-

The ohiof centros of the trade are :-
(1) Balaganj (for finor qualities).
(2) Daser Baxar (for medium qualities).
(3) Kalignnj (for coarse kinds).

## <xixiz

APPENDIX.

At Dasor Bezar thia indastry is the heroditary osoupation of tho Dis (Muhinhya) osanta and in their subsidiary source of inoome noxt to ngrioulture. I have, however, boon told of men of suoh oustom as Dhobis, Natha, and Mali, and some Mahomedars as well parsuing tho induatry.

Half a dozen familiog depand ontirely on this induatry for thoir living. At Kallgand It forma a subsidiary ocoupation of Mabomedan agrioulturitts.

## 4.-Rase minterials-.

Pati is made from murta, a plant of the reed family. Unlike reels of the khag variety it han no joints. Like other reeds it grows on marshy and watorloggod areas and is found in abin lanao in choked up tanks and damp hill slopes. At Balaganj murta is oaltivated by Mahomolana and ajppara to be a paying thing to grow. The roots are nowa in April and the plants ripon in 2 yanra, it in $a$ standing orop and will yield good murla for 10 to 12 years consoontively. Tho oultivution la not generally done in the open field; but thu plante are arranged in a ring round tho homontoal land on tho brink of the inevitable surrounding trench.

The wild variety is oheaper, but inferior in quality. Thiok bushes grow alundor canon of inferior qualioy. Daser Bazar and Kaligznj use the pild varioty almoste exolusively, while Balaganj has to row it.

The yield per kedar (one-third acre) of land is asid to total Rn, 40 per year. Twenty halis or 80 pieces of murta fetch anything from 4 anass to 10 andas accozding to the quality of tho cmno.

## 5.-System of menufacture-1

The industry is worked on the cottage rystem. At Kuliganj women do the wearing while mon prepare the cane. At Dager Bazar, cooperation from the women folk does not weem to be general; widours and indigent women however earn a liviug from its manafactare.

The murta is split like the ordinary cane. (a) For the brown variety, the prepared cane has only to be dried and then woven. At Kaliganj the cane is not even dried. The result is that when tho cane gets dry the textura ceases to be close. (b) For the white variety, the cane aftor splitting io boiled and dried befure it is woven. It will then prasent an ivory finioh. To obtain a milky white appearance young canes are used and give better reanalts, though they are lous able to boar a atrain and last lese than more mature cane.

A full-gized pati is - $\frac{3}{4} \times 1$ yards, emaller ones of various sizes are also mato. A full longth $s h a p$ is $8 \times 2$ yards.
6. A pati worth Rs. 2 in July would fetch only Re, l-s in autamn; it would rise to R. 2

## Prices and sales.

 again in November, to R.s. 2-4 in Janaary and Re. $2-8$ in March and return to Rs. 2 in May-June.Daring the wet months murfa is plentifal and cheapar, anit transport eary ; (agricaltaral) workert are comparatively free to devote their time to this snbsidiary indastry; and ther:fore thnagh decand is keen prices remain at a very reasonable level. With the approach of antumn, the demand seakeos, bat sapply continaes to be large. Hence during September and October prices are the lowest. From November agricalture absorbs increasingly greater time of the workers and sapply falls off more quickly than the demand, and therefore prices rise. Daring the dry winter months production is farther restricted for yet another reason, viz., that the cane becomes orisp and brittle-too dry for wesving. With spring the demand revives and the hirhest prices are redis:d in Muroh-April, after which a return to normal conditions is quiokly effeoted when the brosd ast sowing of padly is over in May.

The price fluctuations bensfit obiefly the middlemen. The pati maker is poor and is unable to withhold his output from the market daring the antuma slump, and has to offor his strok for sale ta the middlemen for what can be had for them. .

Dagar Bazar near Barlekha (Aszam-Bengal Railway) is objefly a mart for pabis, though other articler are also brought for eale. Bat there ia no standing shop. In September 1921, when 1 visited the dat, the sale of patis opene 1 thour before sanset and was ovar in one hour and a half. Tho wholesalo pur chasers (paikart) sat down in NWw and the makers or their ageats broaght their patis for sale. The purchasers palled ap the pasi from the (makier's) buadle, unro'lad it: rolled it up again-all in an inoredibly ahort space of timo-and offered a price. The maker nast triel another man, and another and then another till it was sold. There wore sorne atalla also of soller; who were ovideatly middlemen. T'hough roughly 2,500 to 3,000 patis were offored for saie, very ferir were taken bact yusold.

The averagu prioe appoared to be Ro. 1.8 to Re. 1.4 for fall and medium sixod pabis. Thiz mess lower than usual owing to tho previous Adt not meating for foul wanther and the abseace of outsite purohusera, Judging by the quantity markoted, the day'a sole ampunted tw $\mathrm{Hz}_{3} \pm, 500$ ts Ks. $£, 500$. This had meots wrekly (and not bi-wwokly as is usual). Tuking Re. 8,5011 to the the average value of weokly aale from April to Sept.mbir and Rs. 1,10015 as the averuge veokly salo for the remainiug
 20 por cent. an middlomen's margin, the export "value of the aunaal tura ovar is Rs $1,00,010$ and odd.

Kaliganj marknt has the uaual atanling ohnpa and pati is only one of the ceveral thince sold there, Tho ayutern of sule ia vory much the eame an at Daser Bamar. The anmber of purchasers irwo ouly ball



 makore.
7. The following is the calculation of earning, at Daser Bazar, where only men work. At Kaliganj, where famiiies work, earnings are greater and the pali makers are comparatively prosperons:-

21.2b.-The malculalliona aro for avorage workert only. Bagert makert can earn more-

- What profits the middlemen make, it is difficult to gange without a study of the markets to which they export. Thay are mostly ontaide the province. It is, however, interesting to know that at Daser Bazar, middlemen purchase for outside merchants on a commissinn of 64 per cent. Distani firms send representatives who purchase throogh these people. The middlemen purchasing on theis risk and account are financed by cortain looal people who: charge no interest, but in lieu thereof share 25 per cont. of the profits. At Daser Bazar, with tbe exception of one Mahomedan, all middlemen and their financiers are Das by caste.' At Kaliganj the business is entire.'y controlled by Mahomed-: ans.


## IV.-PISHING NETS.

1. A large and brisk trade in fishing nets is carried on in Karimganj. The industry is familiar but to unobtrusive to attrast pablic attention. The demand for Demand. nets comes from the fish-catching clases, vizi; the Mahimals among Mahomedane and among the Hindus, ohiefly the Patnis.

Besides the local demand for nets, Cachar is a large bnyer and consumes abont. Rs. $\mathbf{5 0 , 0 0 0}$ worth annually.
2. The chicf centres of prodnotion are roughly two, Sheola-Bairagi Bazar centre and Jaldhup Production. centre. Angarjar and Balinga, near Sheola, are the two largest netproducing villages.
The malsers are almost exclusively Patnis by caste. The net makers may be elassed under 3 beads :-
(i) Occasional workers.-With the majority of men of this caste, it is a subsidiary ocenpation, the principal being agriculture, boat-plying and fish-catching being the second.
(ii) Ralf-time workers.-Landless Patnis whose principal sources of income are (a) boat-plying, (b) not making and fishing.
(iii) At Balinga and Angarjar, there are landless families whose sole occapation is net making and fishing.
Usually fishing nots are made only from hemp, much of which has to be imported, as the local supply is insufficient. Bat the spinning of hemp is difficult and there is a tendency to sabstitute millmade cotton yarn both for its oheapnoss and the ease of its manufacture into nets. But cotton nets are muoh weaker and lesa durable. 'This year's rate for hemp is said to be Rs . 15 per mand.

Acconding to their sizes, which are determined hy the purpose for which they are meant, fishing note are olussed as follows :- (1) Mahajall (great net) for fishing in big rivers. These are made to order only and may cost up to several handred rupecs; (2) Jal (ordinary net) 7 yards $\times 7$ yards. This is the sizo most in demand; (3) Pelain, a triangular net from 2 to $3 \frac{1}{8}$ cubita long, for catching small fish.

Tho quality varies-
(a) according to the strength of the ${ }^{-}$string used ( $8-$ or $3-\mathrm{ply}$ thread) ; and
(b) according to the size of the intervening mesh (from 1 to 3 fingers' breadth).
3. Prious of nots, unlike the ontput of most cottage industries here, are subject to violeat fluctua-

Prlces and earninge.
largely to the market being eatirely ress prices by as much as 50 per cent. This is possibly due Yatai cueto).

The normal rise of prioss oocurs once in autumn (Ootober and November) when the standing flood water hayins to subside and there is a record eaioh of fish. The demand falls off gradually in wintor and dues not revivo till the monsoon breaks in April. The difference in the level of prices between the 4 aotive months and the 8 slack months is acceatuated by the poverty of the manufacturers and ther consopuont inability to withhold even temporarily the sale of the output. The selling price of ondinary vets of $7 \times 7$ yards varies from Rs. 4 to Rs. 25 according to thread and mesh. The monthly sarings of a single man working half-time and gettiog his hemp spun for cash would be about Ths 7-8. But in point of fact, the industry is worked on the family system. The somen spin the hemp whilemen mate the nets. Family profits therefore include profits of spinning as well as of wearing.

At the same time alluwance has to be made for the tsot that familios whloh work fall tinie aro fow inout work only half time, for lishing and boat plying aro very common additional souroes of inoome ovon when a man bat no land to till. The oatimated avarage inoome from not making of anoh a family makiog 25 nuts in a yoar is from Rs, 108 to Rs. 144 annually. In this induatry aleo the midilamon with a ayetem of advances of cash or hemp and purehase of the neta in favourable torma, have a atrongehold. They succee! in cutiing down pricee to the workors to auch an extont as to cance from to 50 per cent. difference, between the workers'reseipt and tho local barar prioc. Tho total volume of the trade is estimated at 1 laks annually.
-

$$
\text { V. }-\triangle G U R U \text { (Agar). }
$$

The word aguru properly means the attar distilled from the dark brown hardoned rosinoun juice gecreted in the wood of the tree Aquilaria Agallooha and it is alao unod to moan the fragrant wood itself. Although the Ain-i- $4 k b a r i$ tells us that in Mogul times Sylhet uood to grow forests of aguru, there is little found now in the distriot. The ohiof agar forosta aro in the Amam Valley and the Naga Hille, and disoovery of the partioniar treas which happen to have dovelopod the valuable ecoretion appears to be largely a matter of chance.

The zaw material with adhering wood is brought to Sajanagax, Rafnagar and three othor villagos near Dakshinbhag in Sylhet, for distillation by the skilled workers thore. Thore is hardly any looal demand. Niost of the demand is from other parts of India, where it is used in religious riturl, and from China snd Western Asia, for which market it is bought by Arab merohanta in Caloatta.

The induater cannot strictly be called only a cottage industry, for there are only about 40 tamilies who own distillery plants. Most of the business is in the bands of two exporting firms who have workshops in the two chief villages. These employ a large number of day laboarers, sad aleo givo out work on contraot to those who profer to work at home. The diay labourers get 6 annas a day and the othere are paid at piece rates. With the great majority the industry is subnidiary to agriculture.
-
The business is entirely in the hands of Mubammadans. There are nearly 1,000 workern in addition to the families who have their own stills.

There is no fixed market rate, and the prices are fixed by haggling. The three prodocte, manur factured ajar wood, attar and the residue gr dust, all have their values. First quality material may. yield Re. 3-8 per tola for attar, Rs. 15 a seer for manufactured agar, and Re. 1-8 per maund for durt. Profts are high, some estimates varying from 68 per cent. to 260 por cent. on working a mand of raw material, but want of capital hinders the smaller manofaoturer. Usually he has to approsech the exporting middlemsen, who only agrees to finance him on the usaal conditions, pis., that the entiro output be sold to him, and that the eeller accept lower ratea

## APPENDIX F.

## Famir Buagrts.*

1. Cullivator-Nowgong.

Fillage-Ghilsni, thana Jamunsmukh, maozs Kampar.
(a) A family of seven members.-Three males, one being old, ono boy of about 13 and one full grown man, two femalea of fall grown age sadd two infant girls. The females do household work such as cooking, house keeping, etc. They do not help in the field work.


Majority of the people are in this state of economic distrest, only 5 per centw of the villagens are in better condition but abcut 20 per cent, are in worse condition.


[^4]
## 8: Cultivator-Bylhot.

Mahammadan of villago Digboand, Biawanath polioo atation.

4. Cultivator-Khasi and Jaintia Hills.
$\therefore \quad$ (Five mambars) 1 adult male, 2 adult females, 1 girl and 1 boy.
Jowai subdivision.
Village Nongkhlieh (Nongkhliah Doloiship).

## ... Annual incoma

Value of paddy and other arops grown with vegetables, fruits and live-stock less value of seeds


3 workera, 2 dependants.
Work for about 8 months in the year.


## 5. Zea-gardidn coolie-Sibsagar (Jorhat). <br> CINAMARA TEA ESTATE

Family-1 male (Leboo Dhandasi-Telugu) adnlt, 1 female adtult: (working), 1 boy 6 years (nonworking), 1 girl 4 yeara (non-working).
Works in tea-house for part of year, in garden for remainder.

. It is estimated that 20 per cent. of the families on the garden are above this standard, $30^{\circ}$ per cont. of thie standard and the remainder below.

> 6. Tea-garden coolies-Sylhet.
> Casto-Oriya (South Sylhet).

Man, wife, sieter (agod), old mother, ohild-21. workers.
Pearly Budget.


## 7. Ex.gardon coolitumorik Lakkimpmp. .

Village Sarizabari, near Silonibari Tsa Estato-m fumily mombora -12 mon, 1 woman and 9 ohildren,


Note:-This is a good olass of ex-coolie family. Woman plueks for about 3 months, 2 men earn 8 annas daily, working about half the week on the garden.

Expandiltare (anzaual).
R. $n_{1}$ an

A-Mod.
Rice, 48 maunds at Rs. $4^{\circ} 10800$
Balb lit moora weokly (oattle incladed). ... $\quad . . .1280$
. Oil ..0. ... $24 \quad 0 \quad 0$

8pices ... . ... 1300
Pulses ... ... 1088
Vegetables ... ... . $20 \quad 0 \quad 0$
Milk
Gur ... ... 680

B-Other household expeneos.

| Kerosene oil ... | .0. | 7 5 0 |
| :---: | :---: | :---: |
| Tobacco and molssas | ... | 150 |
| Clothe is. | ... | 67120 |
| 4 Opiam $\quad .$. | -. | 6500 |
| Liquor ... | .'. | 10 |
| Housebold atensils | - 0 | 6150 |
| C-Miscellaneous. |  |  |
| Domestic festivals | $\cdots$ | 50 |
| Land revenue | ... | 90 |
| Local rate '... | ... | 090 |
| Repayment of debt | ..' | $200^{\circ} 0$ |
| Interest for 3 monthe | ... | 200 |
| Total | - - | 476120 |

8. Calivator-Hand-loom worker-Cachar.

Three workerà and 4 derendants-working members engaged in work for about 250 dayn.

|  | $\begin{array}{rll} \mathrm{Re} & \text { a. } & \text { P. } \\ 40 & 0 & 0 \end{array}$ |  |  |
| :---: | :---: | :---: | :---: |
| Value of cloth propared and cold ... |  |  |  |
| Value of crops, otc. ... | 200 | 0 | 0 |
| Trade in bamboot, canes <br> Peto, ... | 70 | 0 | 0 |
| Total | 810 | 0 | 0 |

Thana Hailakandi village Nimaichandpur I -1 made adult, 3 female adults and 3 childran.

| Erpanditare |  | Re. a p : |  |
| :---: | :---: | :---: | :---: |
| Rico | -0* | 170 | 00 |
| Salt ... | - | 2 | 80 |
| Oil ... | ... | 9 | 0 |
| Spicen ... | ... | 2 | 0 0 |
| Fish ... | *** | 8 | 0 |
| Pulsen ... " | ... | 4 | 0 |
| Tea, nugar, eto | ... | 8 | 0 |
| Betel loaven and nuta | ... | 3 | 0 |
| Keromene ail | ** | 7 | 0 |
| Tobaceo ... | ... | 8 | 0 |
| Clothee | ** | 40 | 0 |
| Utensils ... | ... | 6 | 0 |
| Houce repairs | ** | 18 | 0 |
| Meclioul expencee | $\cdots$ | 8 | 0 |
| Domeatio feotivale | $\cdots$ | 3 | 0 |
| Inand revanue | $\cdots$ | 30 | 0 |
| Looal tasation | ** | 0 | 9. |
| Tutal | 01 | 319 | 10 |


10. Potter-Cultirator-Nowgong.

## Villagẹ Kumargaon, Manza Dergaon, P. S. Dergaon.


$B$-Other household expenses.

| Betel-riut ... |  | Nil. |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Kerosene oil ... |  | 4 | 0 | 0 |
| Tobacco and molasses | ... | 6 | 0 | 0 |
| Clothes | $\ldots$ | 40 | 0 | 0 |
| /OOpiam, ganja, etc. | ... | 26 | 0 | 0 |
| Utensis |  |  | $\mathrm{Ni}^{1}$ |  |

N.B.-The income of suol a family depends to a considerable oxtenc on the number of female adulte, who work in pottery manufucture mainly. Theno is no family sololy deponding on pottery manufacture : every family has some cultivation as well.

Such families are 10 per oent., above this line 85 per cent., and below this line 5 per cent.


## 11. Coal-miner-Laksimpur. MAKUM, MAUZA LEDO.

Family, coul miner : 2 malo adulte, 1 fomulo adult, 1 mulo ohilli, 1 fomuly, ohild,

| Itema of inoome. A | Amount yoarly |
| :---: | :---: |
|  | Re. |
| Inoomo per annam (all adults working), wages, 2 males at averuge Rs. 3 per mensom. | 90 720 |
| Wages, 1 female at Kg .20 per mensem. Yearly | $0 \quad 240$ |

It is vory diffioult to give any really reliable figares as the earnings and standard of living of the various classes of labour vary very muoh.

| IWme of oxpmalituro. Atn | Ataumint yoarly. |
| :---: | :---: |
| A-Foorl. | lu. |
| Rice 8$\}$ maunde por month at Ra. \& por monkem $=$ Kir. 20 . | 12610 |
| $8_{\text {galt }} 4$ seors por month .. | . 5 |
| Oil 2 " ${ }^{\prime \prime}$ | 30 |
| Spicos at $\mathrm{R}_{0}, 1$ por month | 12 |
|  | (11) |
| Pulses 10 noorn por month | - 30 |
| Vogatablea at Rs. 2 por month | 明 |
| Mils and ghoe at lha. 10 pror month. | r 120 |
| Tea, sugar, cto., at Re. 2 por month. | r 24 |
| Live-stock, poultry, gonts pigeon, egga, miloij cow and calves at Re, 2 per month | 5 |
| $B$-Other houschold expences. |  |
| Betel-nut at Re. 1 por month | 12 |
| Koroseno oil at annas 12 per month. | r |
| Tobaceo and molassos at RI. 2 per month. | 24 |
| Clothes at Res, 3 per month ... | . |
| Liquor at Rs. 7 per month ... | . 84 |
| Household otensils at Mo. 1 per month. | 112 |
| Furniture $\qquad$ | ... Nil. |
| House repaire and materinls ... | ... sapplied by |
|  | Compuny |
| Merical expengos $\quad$ M, | $\cdots \mathrm{Min}$ - Ditto. |
| ment ${ }_{\text {mand }}$ | 12 |
| Looal taxation | Nil. |
| Repayment of debt... | Nil. |
| Interest on loan | Nil. |
| Any other expenses... | Ni. |
| Approximate yearly expenditure... | are... 758 |

12. Oit-seell Worker-Lakhimpur.

Village, maaza or thana Digboi (Margherita).
Family $\mathrm{E}, 1$ male adult, 1 female adu't, 1 male and 1 female child, 1 infant (male).
Number of workers $\left.\begin{array}{ll}. . . & 2 \\ \text {.. } & 8\end{array}\right\}$ Total 5 members.
Number of dependants

|  | Items of espersiture. |  | Rs |
| :---: | :---: | :---: | :---: |
| ${ }_{276}$ | Rice (iocluding flour, ote.) | ... | 186 |
| 29 | Salt $\quad .$. | ... | 3 |
|  | Oil ... |  | 3 |
| 50 | Spices $\quad .$. |  |  |
|  | Fish (refer to all clasees wh money in 6isb) .. ... | $\ldots$ | 10 |
|  | Pulsed ... .... | ... | 11 |
|  | Vexetabled | $\cdots$ |  |
|  | Milk und ghes ... | ... |  |
|  | 'lea, sagar, othe ... | ... | 10 |
|  | B-Other Aoksedild esprascit |  |  |
|  | Kimnothe oul ... | ... |  |
|  | Twhatwo and inclasma ... | $\ldots$ |  |
|  | Cluthea ... | ... |  |
|  | lidurir ... | ... |  |
|  | C.-Ml/sintancens, |  |  |
|  | Firiviax .. | $\ldots$ | 3 |
|  | liarbor ... | ... |  |
|  | Tutal ... | $\cdots$ | $\sim$ |

18. Barth worker on roads-Goalpara.

Thana-Bilasipara.
Number of members in the family-
Workerg- $\left\{\begin{array}{l}\text { Male } \\ \text { Female }\end{array} \quad\right.$ : $\mathbf{l}$ :. Dependants. .. Nil

Items of income.

There are no local earth workers. This budget refers to 8 pair of upcountry settlers who carry on their work throughout the year.

14. General baboureq-Khati and Jaintic Hills (Shillong).

Conctifution of family-1 male adult worker.

$$
\begin{aligned}
& 1 \text { female " } 1 \text { " } 1 \text { female child ( } 14 \text { years) worker } \\
& 1 \text { male ohild ( } 6 \text { yeara)-dependant. } \\
& \begin{array}{lllll}
1 & \prime & n & (4 & n) \\
1 & \prime & \# & (2 & n)
\end{array}
\end{aligned}
$$

Items of incomo monthly.



## APPENDIX G.

Estimate of production and average individual income at prices prevaiiing in 1921-2\%.*
[Crops according to estimates of Agriculture Department.]


[^5]Suillona : Printei and pablished by H. H. Kısa, Superintendeat, Assam Gorernment Pross : (Census) No. 23-782-22-2-1923.


[^0]:    

[^1]:    
     Lurutert,

[^2]:    - Doanoriptiro Ethnology of Bongal, 1872.
    $\dagger$ Dalton, Dosoriptipa. Ethnologgy of Bengal, 1872 .

[^3]:    

[^4]:    

[^5]:    - So0 Chaptor XII, lant paragraph. The calculation, which ropresents production value and not actual cash income to the avompo penaut, is only n rouph approximation. Somo itams in tho list have probably been mach undereatimated (e.g., fish and eloth): other ltuma, auch as live-stock profts, have boon omitted.

    No nttomrt lias been mado to estimato the sharee of incomo taken by the trader, the money-lender and the rent-receiver on the ono hand and tho sultivator and wago-agner on the othor

