

NATIONAL ARCHIVES & PUBLIC RECORDS SERVICES
OF PAPUA NEW GUINEA

PATROL REPORTS

DISTRICT: CENTRAL

STATION: Bereina

VOLUME No: 9

ACCESSION No: 496.

1968 - 1969

Filmed by/for the National Archives of Papua New Guinea,
PORT MORESBY - 1989.

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Papua New Guinea Patrol Reports

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CENTRAL DISTRICT PATROL REPORTS

1968-69

BEREINA & SPARE COPIES C.D. PATROLS

<u>Report no.</u>	<u>Officer conducting patrol</u>	<u>Area patrolled</u>
<u>BEREINA</u>		
1-68-69	J.J. B. Irwin	Nara & Gabadi
2-68-69	A.S. Armstrong	Mekeo L.G.C., Bush Mekeo C.D.
<u>SPARES</u>		
<u>MAGARIDA</u>		
2-68-69	A. Lock	Entire Dimuga & Mailu C.D.
<u>KUPIANO</u>		
5-68-69	P.J. Wohlers	Marshall Lagoon C.D.
<u>ELA BEACH</u>		
1-68-69	J.J. Adams	Mt Koiari C.D.
3-68-69	J.J. Adams	Vanapa C.D.
5-68-69 Suppl.	P.A. Briggs	Part Vanapa & part Vetap C.D.

67-7-14

(11)

TERRITORY OF PAPUA AND NEW GUINEA



Ref: 67-1-1

Department of District
Administration,

KONEDOBU. Papua.

16th September, 1968

→ The District Commissioner,
Central District,
PORT MORESBY.

PATROL NO. 1 - 68/69 BEREINA

Your reference 67-7-14 of 10th September 1968.

I acknowledge with thanks receipt of

* Special/~~Annual~~/~~Census~~ - ~~Area Study~~/~~Situation~~ Report by
J. J. B. Irwin, a/A, D. C...... to Nara and Gabadi.
..... Census Divisions.

T.W. Ellis
(T.W. ELLIS)
Director

cc.

Mr. J. J. B. Irwin,
Sub District Office,
BEREINA,
Central District.

* Delete as necessary.

67-7-14

10th September, 1968.

The Director,
Department of District Administration,
Konedobu.

PATROL REPORT NO. 1:68/69 BEREINA.
MR. J. J. B. IRWIN, ACTG. DD/ADC.

Copy of the above report, together with map of patrol is attached for your perusal.

The report is of a Special Patrol conducted annually for purpose of renewal of Licences, permits, etc. in the villages and plantation complex east of Bereina. No Census or Area study was therefore done. This will be submitted later when a full patrol of the Kairuku Council area is undertaken.

Labour.

Many of the complaints and investigations are carried out from Port Moresby due previously to the inaccessibility of the area from Bereina. Fortunately, with airstrips in the area, we have been able to prevent serious crime by use of aircraft and police on many occasions. Action was under way to open a Rural Police Station in the area, but this has been deferred until the siting of the Moresby-Bereina Road has been determined.

Licences and Permits.

As stated, this enables the people of the area to renew all licences at the one time. Once the Police Officer arrives, many of the functions will be taken over by him.

Quite likely, once a Commissioned Officer of Police is posted to Bereina it will be necessary for him to undertake a similar annual patrol.

Aracookina-Delena Road Link.

This was commenced in the latter stages of last financial year and when completed, will be a veritable boon to the area, not only administratively, but economically.

Previously, Mekeo farmers had to transport produce by tractor to Ararana Landing, barge to Yule Island, thence boat to Moresby. With the opening of this road, it will mean vehicular transport to Pekama, thence boat to Moresby, thus reducing handling and consequent damage to produce.

To further assist in this, an application for \$8000 has been made to the Co-ordinator of Transport for construction of a wharf at Pekama on the eastern side of Hall Sound.

An application for extra funds will now be made to gravel the road and improve its surface.

/cont.

(9)

Economic Development.

As stated, virtually nil. The area is rather arid, bananas are possibly the staple diet as well as the main commodity sold. There is little likelihood of any development here due to the nature of the country.

Coastal villages are able to earn a good income during the crayfish season - December to March - provided they are sufficiently interested. Fishing as a means of obtaining money is not carried out to any extent although the area has good fishing grounds and a market exists at Yule Island from Yule Loster Enterprises.

The economy of these people will undoubtedly be improved considerably with the opening of the Moresby-Bereina road link.

(R. T. GALLOWAY) *ls*
DISTRICT COMMISSIONER, C. D.

encl.

new file (3)

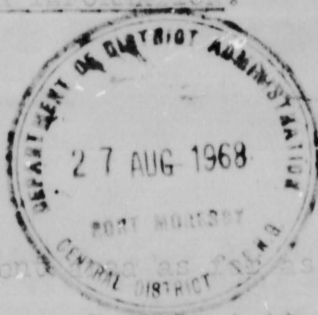
PATROL REPORT COVER INFORMATION.

REPORT NO. 1 OF 1968/69 BEREMBA.

SUB-DISTRICT - Kairuku.

DISTRICT - Central.

COUNCIL AREA - Kairuku Local Government Villages.
Non Council Area encompassing plantations.



PATROL CONDUCTED BY J. Irwin.

DESIGNATION - Acting Assistant District Commissioner.

PERSONNEL ACCOMPANYING PATROL.

1. Alexis Oaaga - Clerical Assistant.
2. Constable 1/C Boroepo No. 1315.

DURATION OF PATROL - 22-7-68 to 31-7-68.

NUMBER OF DAYS - 10.

DATE OF LAST D.D.A. PATROL:- 29-4-68 3 days.

PREVIOUS - 18-4-68 9 days.

OBJECTS OF PATROL: 1) Inspection of Firearms in villages and Plantations.
2) Inspection of road link Aropokina to Delena.
3) Investigate complaint of assault at Hicau.
4) Routine visit to Plantation areas.

TOTAL POPULATION OF AREA PATROLLED:

European	55
Local	2743
Mixed Race	42
Foreign Agreement Workers	2500 (approximately)
<u>TOTAL</u>	<u>5343</u>

MAP REFERENCE Four Mil Yule
Milinch Kairuku.

VILLAGE POPULATION REGISTER NOT ENCLOSED.

DIARY

Monday 22/7/68

Departed Beraina 10.00 hrs in Land-Rover A3631 with 1 Clerical Assistant and 1 member of RP&NGC. Proceeded to Aropokina and thence by New Road to Nikura village. Thence to Poukama and inspected progress on road at Delena Point. Renewal of firearm licences at Poukama. Thence by Delena/Hisiu Road to Hisiu Village arriving 17.00 hours. Camp made in Rest House.

Tuesday 23/7/68

Firearm registrations at Hisiu Village followed by numerous discussions on land disputes and other minor litigation. Inspected village and licensed store. Arrangements made to cross Aroa River by barge on Wednesday. Visited Hisiu Beach Estates for renewal licences and firearm permits etc. Investigated complaints of fire lighting and stealing. Slept Hisiu.

Wednesday 24/7/68

To Aroa River and crossed by canoe. Assisted in repairs to barge being carried out by Mr. K. K. Man. Land-Rover ferried across 1030. Visited Pinu Village. Inspected school area, and gave advice on erection of new class room. Discussion with village people over pigs. Firearms inspected and licences renewed. No further complaints. Patrol moved on to Mafabaira Village arriving 1600 hrs. Village inspected. Firearms inspected and renewals issued. Discussions with councillor and other village people in evening. Slept

Thursday 25/7/68

Departed for Plantation areas and after visiting Aroana, Kanosia, Dea and Lolarna arrived Mariboi 1300 hrs. Camp made at Estate Rest House. Visited Veimsauri Estate in company with Manager in afternoon. Returned to Mariboi and carried out enquiries into allegations of indecent behaviour amongst estate agreement workers. Slept Mariboi.

Friday 26/7/68

Continued enquiries and dealt with matter under Native Employment Ordinance. Firearms, Drivers licences, etc. inspected, renewed and issued. Visited Rubberlands Estate and investigated a complaint of debt made by one Orikori. At request of Manager with labourers re their selling their rations. Firearms inspected. Returned to Mariboi. Slept.

Saturday 27/7/68

0730 hrs Departed for Veimsauri after receiving information that Karo-Larua was working there. However he has moved on

to Moresby so returned to Mariboi. Departed 1100 hrs and visited Boisimu Mission. Firearms inspected and licences renewed. Thence to DOA Estate. Firearms and licences inspected and renewals effected. Thence to Lolarna Estate on same activity. Discussions with Manager over threatened trouble amongst labourers and decided to remain in area. Slept Kanosis.

Saturday 28/7/68

0800 Departed Kanosis after quiet night and made camp at Keveona village rest house. Village firearms inspected. Number of minor complaints investigated. Discussions with village officials. Slept Keveona.

Monday 29/7/68

0800 hrs Departed for Magabaira re debt complaint from Rubberlands. Thence to Toufou Plantation. Firearms inspected thence to mouth of Aroa River and Land Rover crossed without event. Further paperwork at Hisiu Beach Estates and then to Hisiu Village. Assault complaint heard in Local Court. Departed for Diurana arriving 1600 hrs. Discussion with Councillor, Pastor and Village people in the evening. Slept at Rest House.

Tuesday 30/7/68

Firearms inspected and enquiries into marital dispute involving Oro'i People. 1100 hrs departed for Obu Estate and then Ala'Ala. Number of disputes determined and firearms inspected. Thence to Oro'i village arriving 1630. Camp made at Rest House. Village firearms inspected. Further enquiries into marital dispute originating at Diurana. Slept Oro'i.

Wednesday 31/7/68

Returned to Ala'Ala with Village officials from Oro'i for Court Hearing. Thence back to Oro'i. Further discussions with village officials and school teacher over absenteeism at school. Inspected new bridge site and 5 bearers cut by village people for new bridge. Thence to Ou Ou creek estate. Firearms inspected and licences renewed. Thence Geabada village in the Boro Census Division for inspection of firearms. Thence to Delena where discussions held with Demarcation Committee over land dispute. Thence on bush track to Vanurmai Village. Firearms inspected, licences renewed. Discussions with chairman of Land Committee. Returned by vehicle to Berina arriving 16.30 pm.

END OF PATROL.



TERRITORY OF PAPUA AND NEW GUINEA

(5)

Telegrams
Telephone
Our Reference 62-1-1
If calling ask for
Mr.....

Sub-District Office,
Bereina, C.D.

7th August, 1968.

District Commissioner,
P.O. Box 776,
PORT MORESBY.

BEREINA PATROL NO. 1. 1968/69 (SPECIAL).

I submit herewith my report of the above patrol conducted through the Wara and Gabadi Census Divisions and the entire Plantation areas of this Sub-District.

2. The Patrol was of a special nature in that it is undertaken at approximately the same every year and affords the facilities for inspection of firearms and renewal of licences, throughout this area, which in the past has been extremely isolated from Bereina.

3. This time the patrol was able to use the new road connecting Aropokina with Delena and the existing coast road (see map). In fact the patrol vehicle was the first to use this road and a report on its construction, condition and advantages is included.

4. The plantation area of the Sub-District consists mainly of Estates owned or managed by either the British New Guinea Development Co. and Steamships Trading Co.

5. These estates produce copra west of the Iroa River and rubber on the eastern side and in the foothills.

6. Approximately 2500 foreign natives, mainly highlanders are employed as agreement workers, and over the past few years increasing violence, desertions and even killings have become associated with these people.

7. The basic reason behind the violence is the forced integration of workers from different tribal areas concentrated in Papua. The origin of dispute is nearly always petty, for instance the killing in 1965 at Manosia of a man who had stolen the rubber sealing ring of a patrol drum, but as just illustrated the results are far from petty.

8. With the area being so isolated from Bereina, it speaks well of general plantation management that "call outs" are so relatively few. However the patrol in visiting all the plantations felt that to a certain extent the "showing flag", as typified by a uniformed Police Constable, did its small part in maintaining general law order.

9. Complaints from Europeans were few, and consisted mainly of alarm at the highlanders beginning to carry weapons around the area. This was particularly so at Lolarua and Manosia estates, and numerous workers were talked to, and told that it was against the law to carry weapons in such public places. As the gazetted roads through the estates.

10. The case of alleged sodomy was investigated at Mariboi

between two highland labourers. Lack of corroborating evidence prevented it being determined by the District Court. However the circumstances involved together with a past history of similar complaints, satisfied the court that termination of both contracts was desirable. This was accordingly done under Section 49(4) of the Native Employment Ordinance.

14. More detailed reportings on the specific objects of the patrol follow hereunder:-

Firearms and other Licences.

a) 13 High Powered Firearms were inspected as to safety and serviceability and registrations renewed.

These weapons were almost wholly contained in the plantations area, but a number were held by mixed race owners who had previously owned them for crocodile shooting.

b) 94 Registrations of shotguns were renewed while 27 faulty and unsafe weapons were confiscated and brought to Beraia. Request to Police for permission to destroy these weapons contained on Beraia file No. 38-2-2.

c) 55 Drivers Licences of varying classes were also effected. This Registry Office does not as yet have the new forms, although they have been ordered some time ago, but old forms with appropriate classes endorsed thereon were issued.

d) This is one facet of Administration at present carried out by D.D.A. in its agency role for the Police Department. However as the posting of a Police Officer to Beraia is imminent, this duty will soon be passed to that officer with pleasure.

e) In the meantime, due to (i) the isolation of the area, and (ii) the introduction of the New Firearm Ordinance and the abandonment of S.A.P. Policies this office has found it most convenient to inspect firearms on the spot, be it in village or plantation areas, rather than have the firearm brought to Beraia.

f) It also enables an officer to readily enumerate the number of guns in an area, and other pertinent information, when new guns are sought.

g) Trading Licenses.

The authority to issue Licenses to Trade with Natives has recently been handed over to the Kairuku and Mebec Local Government Councils. However a number of stores are operated on the estates and renewals were obtained from them on behalf of the council.

12. AROPKINA-DELENA ROAD LINK.

a) This road is approximately 15 miles long and was barely open at the time of patrol. However since then the road has been greatly improved, particularly at the Delena point, and Public Works men and equipment are continuing on towards Hisiu.

b) The road has considerably opened up the ~~highland~~ ^{HIGHLAND} isolated area of the Nara/Gabadi Census division and it is possible to reach the Aroa river in about 3 hours.

c) The road will however require graveling to be classed as an all weather road, as inspection after rain showed that it was badly affected towards the Aropkina end.

d) Local reaction to the road though at first mixed is generally one of welcome, and the people can see the benefit of links to Beraia. In the village of Kikava there was

some opposition to the road being used by Mekeo village business trucks but following discussion with them there is no further objection.

e) From Nikura the road travels through sparse savannah type vegetation to Pukama village on the coast opposite Vule Island.

f) From here it climbs sharply around the point and into Dolena, where it meets the existing coast road to Nisiu and the Aroa river.

g) The road thereby skirts Hall Sound which previously had been the obstacle to land communications with the Eastern part of the sub-district.

13. ASSAULT AT NISIU.

At Nisiu Village a charge of assault laid by Toto-Naine against Taita-Vake. The defendant was at that time in Port Moresby, but was present in the village when the patrol returned. The case was heard in Nisiu village and Taita-Vake convicted and fined \$20-00.

14. Few other complaints were heard, except that at Orof Village advice was given in a marital dispute, to the effect that Doe-Neme female of Duimana would have to arrange repayment of bride price if she wished to go ahead with divorce proceedings under local custom.

15. POLITICAL.

a) Local Government. Recent elections in the Kairuku Local Government resulted in a number of new councillors, particularly in the Gabadi Area. However these councillors to date have missed the only two meetings held so far. The excuse offered was that they were not advised of the meeting date until too late. This matter will be rectified with the Council, and in the meantime the Councillors were told of the next meeting and advised to attend.

As the Kairuku Council meets only once every two months, I consider it important that the best possible attendance be achieved and to this end have suggested that the Council tractor could make the trip to Nisiu collecting all councillors from these two census divisions.

Discussions were had re the positioning of an Aid Post in the Gabadi.

Relative Population figures are as follows.

Magabaira	- 298
(Ukaukaka)	- 290
(Kopuana)	- 213
(Keveona)	- 323 165
Pinu	- 395.

Whilst Ukaukaka, Kopuana and Keveona are more central, and combined have a larger population, I feel, myself that the Aid Post should be built at Pinu. The distance involved of some 3 to 4 miles is not great and the people of Pinu have shown themselves more reliable. There is an expanding Administration Primary T. School at Pinu, and supplies could be more easily accessible from Nisiu.

The other group of villages on the other hand have already had the chance for the Aid Post, but because of unwillingness or laziness, would not arrange transport of the building supplies from Nisiu wharf. Consequently the major portion of these were stolen.

16. ECONOMIC.

The economy of the area falls into two main categories:-

- a) The highly organised plantation areas, and
- b) the spasmodic rural development of the villages.

a) Plantation Areas.

(i) East of the Aroa river, and comprising that area known as the Kanosia District, the following estates are in production.

Steamships Trading Co. Ltd.,	
Veimouri Estate	Rubber and Copra.
Mariboi Estate	Rubber.
Rubberlands "	Rubber.
Lolarua Estate	Rubber.

British New Guinea Development Co. Ltd.,	
Doa Estate	Rubber.
Kanosia Estate	Rubber.

Mr. B. Dynock - Aroana Estate - Rubber.

(ii) On the Western side of the river BNGD Co. Ltd. operate the Hisiu Beach Estates, consisting of 4 divisions, producing copra.

In addition the Catholic Mission operates Obo Plantation, and Mr. Edwards runs Ou Ou Creek Plantation. Both of these also produce copra.

(iii) Whilst the price of copra has continued to rise that of rubber has dropped dramatically. The large estates have been able to absorb a lot of this reduction and still operate on a profit. However the smaller estates, are finding the cost of production prohibitive. To this end interest is being shown in the introduction of cattle into the area, to be raised in conjunction with rubber tapping.

(iv) Mr. Edwards at Ou Ou Creek is having considerable success in running cattle as well as other livestock such as goats in conjunction with his copra production.

b) Village Areas.

(i) The major income for those coastal villages of Delena Foukama, Ala Ala, Hisiu and Orof is derived from catching cray fish. This is only seasonal however and runs for about 8 weeks commencing toward the latter part of December.

(ii) For the remainder of the year production of copra on a small scale provides the only regular source of income.

(iii) Hisiu village sends it's copra to Moresby either through the Hisiu Native Society or direct to the Copra Marketing Board.

(iv) Villages across the Aroa River generally deal through the Magabaira Society. At the time of the patrol approximately 30 bags were awaiting shipment in this manner. Kanosia Wharf by "K" Boat.

(v) Considerable discussion was held in Duimana Village with regard to extending and improving cash cropping. This village obtains no benefit from the crayfish season, being well inland, and it appears to me that the only answer for this area is copra production. I have asked the Agricultural Extension Officer at Bereina to visit the village as soon as possible he can to advise the people. Previously this village enjoyed an income from the sale of Sandalwood and it may be possible to still find a market for this commodity.

vi) A small amount of vegetables mainly bananas are also forwarded to Moresby either by "K" Boat or canoe.

17. SOCIAL.

i) The patrol spent some time inspecting the Primary T. Schools at Hicin and Pinu. Both these schools are in need of maintenance and this has been passed on to the District Works Officer.

ii) The Pinu School through the Parents and Citizens Association are erecting a new class room on a steel frame, supplied by Education. Assistance has been given in the form of second hand iron ex the Kairuku Hospital recently Board of Surveyed.

iii) The Pinu School is a particularly progressive one and has been greatly aided by the donation of land ex from one of the Pinu Village men.

iv) Now that access to the area has been improved it should be possible to assist both these schools, with maintenance materials, and tradesmen.

v) The village at Diwana has developed a men's club but like most clubs in the sub-district it is based on a economic plane rather than a social one. The members of this club will carry out duties on people's houses etc. for payment. Such payment being credited to a club account for future economic development in the village. So far this account stands at \$12-00. The club was advised that when road maintenance money became available they could carry out some work on the Diwana access road and that I would pay them for it.

A group of 4 or 5 people do not wish to join the club as they want to see it working properly first. It was pointed out that this was not a good attitude for a strong club and I think that the outsiders will join shortly.

vi) The patrol was particularly well received in Diwana both by the councillor and United Church Pastor, roast chicken was served by the ex chief now turned councillor.

vii) The only ^{active} club seen was the Women's Club at Ala Ala Village. This club has a balance of \$43-00 in its account and also runs a small Trade Store.

Funds are obtained by working in gardens and supplying meals for visitors to the village.


viii) The bridge over the Oroci creek, just below Oroci Village is to be resited further upstream where the distance of the banks is only 20 feet. The people of Oroci have already felled bearers of 36' in length and these will be dragged to the site by Public Works labour. The new bridge will also eliminate a number of steep dangerous curves on the bridge approaches.

18. GENERAL.

I would have liked to conduct an area study and census of the area but acute staff shortages precluded my prolonged absence from Berina.

19. The census and area study will be conducted by Mr. P.O. Brown in September in conjunction with familiarisation of the Kairuku Council area.

20. Carrying allowance claim for myself and Mr. Gaego are enclosed please.


Commissioner



TERRITORY OF PAPUA AND NEW GUINEA

30

PATROL REPORT

Report Number..... BEREINA PATROL NO. 2 Of 1968/69.....

Subdistrict..... KAIRUKU.....

District..... CENTRAL.....

Type of Patrol..... AREA STUDY.....

Patrol Conducted by..... J.S. ARMSTRONG..... CADET PATROL OFFICER.....

Area Patrolled..... MEKEO LOCAL GOVERNMENT COUNCIL.....

(Council and/or..... BUSH MEKEO CENSUS DIVISION.....

Census Division/s.).....

Personnel Accompanying Patrol.....

Const. GILMAN No. 1864.....

R.P. & N.G.C......

Duration of Patrol—from 20/8/68..... To 6/9/68.....

No. of Days..... 18.....

Last D.D.A. Patrol to Area :..... Bereina No. 8 of 1967/8.....

Date..... 6/11/67..... Duration..... 8 days.....

Objects of Patrol (Briefly)..... Area Study and Census Revision.....

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Total Population of Area Patrolled..... 1712.....

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Director of District Administration,
KONEDOBU.

Forwarded, please.

/ /19

.....
District Commissioner.

67-7-2
(35)



TERRITORY OF PAPUA AND NEW GUINEA

Telegrams DISADM
Telephone 1661
Our Reference 67-1-37
If calling ask for
Mr.



Department of District Administration,
Konedobu, P.O., Papua.

23rd June, 1969.

The District Commissioner,
Central District,
PORT MORESBY, Papua.

PATROL NO. BEREINA 2/68-69

Your reference 67-7-2 of 11th June, 1969.

I acknowledge with thanks receipt of Annual
Census Report by Mr. J.S. Armstrong, Cadet Patrol
Officer, to Bush Mekeo Census Division.

The late submission of report rules out
effective comments being made on same.

T. W. Ellis
(T.W. ELLIS)
Director.

Sent Berema 9/7/69 KAS

AA

57-7-2

11th June, 1969.

The Director,
Department of District Administration,
KONEDOBU.

PATROL REPORT BEREINA NO 2-68/69/
MR. J.S. ARMSTRONG C.P.O.

The above report is forwarded without comment as to its contents.

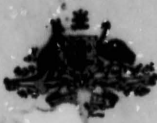
Originally on 28th October the report was returned to the Assistant District Commissioner, Bereina for retyping and representation.

This has obviously not been done, the then Assistant District Commissioner has since resigned and the author of the report is absent on leave.

(R.T. GALLOWAY)
DISTRICT COMMISSIONER C.D.

67-7-2 Bereina no 2.

33



TERRITORY OF PAPUA AND NEW GUINEA

Telegrams

Telephone 67-2-41

Our Reference

If calling ask for

Mr. EWB/lb

Department of District Administration,
Sub-District Office,
BEREINA,
2nd. June 1969.



The District Commissioner,
District Office,
PORT MORESBY.

BEREINA PATROL REPORT No 2.

On checking the files I came across two copies of the above Patrol Report. I am forwarding these in case they were not forwarded in October last year.

E. W. Benham

(E.W. Benham)

Assistant District Commissioner.

*D. DAK forwarded these by memo to A.D.C. Bereina
by 22/6/69, copy of which was forwarded to you. In view of the
fact that it is so old, & poorly presented (although re presentation has*

4100
67-7-2

32
28th. October, 1968.

Assistant District Commissioner,
BEREINA.

BEREINA PATROL REPORT NO. 2 1968/69

The above report is returned for rewriting; unfortunately it is a good report marred by bad spelling, and incomplete sentences.

2. I would recommend that in future Mr. Armstrong do a draft of his report and then type it. This would save a lot of trouble.
3. Only one map was received. Could a second one be forwarded please for onforwarding to Headquarters.
4. Vouchers have been signed and are returned herewith.

(R.T. GALLOWAY) 6
DISTRICT COMMISSIONER C.D.

c.c. Director,
Department of District Administration,
KONEDOBU.



TERRITORY OF PAPUA AND NEW GUINEA

31

Tel.

Telegrams

Telephone

Our Reference..... 67-2-41

If calling ask for

Mr.....



Sub-District Office,
Bereina, C.D.

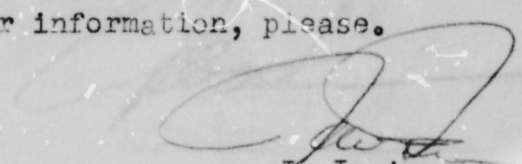
7th October, 1968.

District Commissioner,
Central District,
P.O. Box 776,
PORT MORESBY.

BEREINA PATROL NO 2 1968/69

Please find enclosed report of the above patrol, conducted by Mr. CPO Armstrong.

2. The patrol was conducted as an annual Census of the Bush Mekeo and contains an area study.
3. This is Mr. Armstrong's first attempt at an Area Study and generally he has acquitted himself well.
4. At this stage I would point out that he should re-read and check his patrol reports after they have been typed, and this would obviate the many errors in presentation that have been noticed.
5. In addition some sections such as (E) Land Use and Tenure, (L) Stage of Political Development, (N) Possibilities of Expanding Economy and (P) Attitudes toward Central Government have not been covered as fully as could be desired.
6. Mr. Armstrong has been advised of these desirable qualities in an Area Study.
7. The new type of Census register form was used and these will be typed out in duplicate.
8. For your information, please.


J. Irwin,
a/Assistant District Commissioner.



TERRITORY OF PAPUA AND NEW GUINEA

29

Telephone
Telegrams.....
Our Reference..... 67-1-1
If calling ask for
Mr.....

Department of District Administration,

Sub-District Office,
Bereina, C.D.

19th August, 1968.

Assistant District Commissioner,

Mr. S. Armstrong,
Cadet Patrol Officer,
BEREINA.

PATROL INSTRUCTIONS.

As discussed with you, please depart on 20th August, 1968 to patrol the Bush Mekeo Census Division.

- The objects of the patrol will be:
- a) Annual Census Revision
 - b) Area Study
 - c) Routine Administration.

3. Familiarise yourself with the instructions re Patrol Reports as per the Director's 67-1-0 which you will find on Bereina file 67-1-1.

4. One member of the RP&NGC, Constable Gilman is to accompany you.

5. You will also require your copy of Standing Instructions for reference and compilation of the Area Study.

6. The new form of Census Statistics are to be compiled. These can be done by hand and typed when you return.

7. A patrol allowance of \$50-00 is to be drawn from the cash office.

8. The patrol should take approximately 3 weeks.

9. I wish you a pleasant patrol.

J. Irwin,
Assistant District Commissioner.



TERRITORY OF PAPUA AND NEW GUINEA

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Telephone
Telegrams.....
Our Reference..... 67-2-41
If calling ask for
Mr.....

Department of District Administration.
Sub-District Office,
Bereina, C.D.
9th September, 1968.

Assistant District Commissioner,
Sub-District Office,
BEREINA, C.D.

PATROL REPORT - BEREINA No. 2 of 1968/69

Please find enclosed four copies of the above report together with claims for camping allowance on behalf of this officer.

Patrol Conducted by J.S. Armstrong, C.P.O
Personnel accompanying patrol - Const. Gilman No.1864 RP&NGC.

- Objectsof Patrol
- 1) Area study
 - 2) Census revision
 - 3) Routine Administration.

Duration of Patrol - 20/8/68 to 6/9/68 - 18 days.

Area Patrolled - Bush Mekeo Census Division.

For your information, please.

J.S. Armstrong
(J.S. ARMSTRONG)
Cadet Patrol Officer.

PATROL DIARY.

- Tuesday 20/8/68 Morning spent preparing for Patrol and awaiting land-rover. Departed Bereina by landrover 15.30 hrs and arrived Rarai 17-00 hrs. Slept Rarai.
- Wednesday 21/8/68 Heavy rain in morning delayed departure until 8.30. Light to heavy drizzle while walking and arrived Inawauni 10-30. Heavy rain and carriers unavailable. Village inspection. Slept Inawauni.
- Thursday 22/8/68 Departed Inawauni 8-00, track very muddy and slippery and rivers running fairly fast. Arrived Imounga 12-00 in heavy rain. Village inspected and continuous heavy rain in afternoon. Slept Imounga.
- Friday 23/8/68 Departed Imounga 8-00, arriving Ioi at 10-00 hrs. track bad. Area Study information gained and village inspected. Heavy rain in afternoon. Slept Ioi.
- Saturday 24/8/68 Census revision in morning plus one complaint. Area study information compiled in afternoon. Census statistics in evening. Slept Ioi.
- Sunday 25/8/68 Observed Ioi. Slept Ioi.
- Monday 26/8/68 Departed Ioi 7-00 hrs. Track good and arrived Maipa 8-30. Settled in and met Chris Abel - D.A.S.F. Extension officer from Bereina and Seven Day Adventist Pastor from Ihu in the Gulf District. Gathered area study information. One complaint heard. Slept Maipa.
- Tuesday 27/8/68 Census revision and village inspection in morning. Area Study and census statistics in afternoon. Slept Maipa.
- Wednesday 28/8/68 Departed Maipa 8-00, inspected airstrip and then walked to Inaukina, arriving at 10-30. Area study information gained and village inspected. Slept Inaukina.
- Thursday 19/8/68 Census if Inaukina 7-00 to 9-00 and census statistics completed 9-30. Departed Inaukina 10-00, arriving Ameaka 12-00. Settled in and Area Study information gained. Inspected village. Two minor complaints. Slept Ameaka.
- Friday 30/8/68 8-00 to 9-30 Census revision of Ameaka and Census statistics completed 10-00. Area Study information obtained. Inspected Aid Post. Slept Ameaka.
- Saturday 31/8/68 Departed Ameaka 8-00 - very wet bush track, arriving Engefa 10-30 hrs. Village inspection and Area Study information gained in afternoon. Two minor complaints. Census completed 8-00. Slept Engefa.

Sunday 1/9/68 Observed Engefa. Slept Engefa.

Monday 2/9/68 Departed Engefa by canoe 8-00 and arrived start of bush track 9-00 and arrived Piunga 11-30. Area Study information obtained. Inspected village. Slept Piunga.

Tuesday 3/9/68 Census of Piunga 8-00 to 9-30 and census statistics completed 10-00. Walked to wreck of United States Air Force plane and observed two unexploded approx. 500 lbs bombs forty minutes walk from Piunga village. Afternoon Area Study information gained. One minor complaint. Slept Piunga.

Wednesday 4/9/68 Departed Piunga 8-00 by canoe and arrived Apanaipi 11-00. Area Study information gained and village inspected. Slept Apanaipi.

Thursday 5/9/68 Census of Apanaipi 8-00 to 10-00 and census statistics completed 10-30. Departed Apanaipi by canoe 11-00, arriving at Waika for change of ferrymen and arrived Babanongo 18-00 hrs. Area Study information gained. One complaint. Slept Babanongo.

Friday 6/9/68 Census of Babanongo 8-00 to 9-30 and census statistics completed 10-00. One complaint. Inspected village and more Area Study information gained. Land-~~over~~ arrived 13-00 and returned Bereina 14-30 hrs.

END OF PATROL.

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INTRODUCTION

This patrol to the Bush Mekeo was carried out as an Area Study and Annual Census Revision. Please find a short situation Report and a fuller documented Area Study.

SITUATION REPORT

A. POLITICAL

Local Government Councils 1. The Bush Mekeo Census Division was incorporated into the Mekeo Local Government Council in 1963. The eight villages which make up the Division are represented by nine councillors out of the thirty members of the Mekeo Council.

2. The Mekeo Council has, in the last financial year, built and opened two Aid posts. One is situated at MAIPA, the other at PIUNGA. The Council has also supplied two Mercury 20 H.P. outboard motors to BABANONGO and APANAIFI. In 1966, two water wells were built at INAUKINA, which is the only village in the Bush Mekeo which is not built on, or close to a river.

House Of Assembly 3. The people of the Bush Mekeo have voted in the two House of Assembly elections held in 1964 and 1968. Yet there were only a few people in the Area who knew of either one or both of their representatives in the present House.

4. The members who represent the Bush Mekeo people in the House are:-
HIRI OPEN- Toua Kapena
CENTRAL REGIONAL- Oala Oala Rarua.

Political Education 5. These people have had various lectures about the house of Assembly and on the dates of Mekeo Local Government Council General elections.

B. ECONOMIC

Rural Development 6. There are four different forms of cash cropping in the Bush Mekeo.

7. COFFEE. Is grown in the three most northern villages of the Division. The villages are IOU, MAIPI, and INAUKINA. The Extension Division of the Dept. of Agriculture, Stock and Fisheries began planting coffee at these villages in 1963. To date there has been 71136 lb. of coffee exported from these ~~two~~ three villages for a total income of \$ 9,959.04 .

8. Full figures will be found in the Area Study.

9. BETEL NUT. There are 14,000 betel nut trees grown in the Bush Mekeo. Most of the produce is for home consumption but a little is shipped through Lese a Gulf District port for sale to markets in Port Moresby.

10. RUBBER. A total of 2,740 immature rubber trees are growing at ENGEFA. The trees were planted at the village two years ago. It is expected that the trees will be ready for tapping in three years.

11. COPRA. 15,000 coconut trees are grown in the Bush Mekeo. There is about 62,400 lb. of copra shipped annually from APANAIPAI to LESE for sale to the Co-Operative situated there. This provides a yearly income of \$2,500.

12. VEGETABLES. These are sent to LESE for shipping into Port Moresby for sale. The two main suppliers are APANAIFI and BABANONGO.

Marketing 13. The sale of these cash crops can be either carried out in Port Moresby or at LESE. The majority of the crops are shipped to Port Moresby by coastal ships which call at LESE. The crops are first shipped to LESE by village double canoes and outboard motors of which there are four in the Bush Mekeo.

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C. SOCIAL

EDUCATION

14. There are seven Mission run schools in the Bush Mekeo. The standards of classes range from Prep. to Standard 111. All schools are staffed by local teachers who are trained at the Teacher Training College at Yule Island which is run by the Catholic Mission.

15. A total of 270 pupils attend these schools and are divided as follows:- MALE 145; FEMALE 125.

16. Those who wish to gain higher education can attend either the De La Salle College at Mainchanafor males or the Catholic Girls High School at Yule Island.

HEALTH

17. Two Council built aid posts are situated in the Bush Mekeo. These are at MAIPA which serves the villages of MAIPA, IOI and INAUKINA. The other aid post is at PIUNGA which serves AMEAKA and PIUNGA. Pregnancies are attended to at the Catholic Mission Hospital at BEIPA'A.

18. Other serious cases are referred to the hospital at BEREINA and then if serious enough to Port Moresby.

MISSIONS

19. The Catholic Mission is the only Mission in the Bush Mekeo area. The Division is serviced every three months by priest who does a circuit of the area and conducts services in the village churches. The Mission also runs all of the village schools in the area and trains all the teachers.

D. CONCLUSION
Area Study.

20. This has been a summary of the following

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AREA STUDY.

a) INTRODUCTION.

(1) The Bush Mekeo Census Division is the most north westerly of the Sub-district's Census Division, being bordered to the South by the Waima/Kivori Census Division, East by Mekeo Census Division, North by the Gailala Census Division and west by the Kakipi sub-district of the Gulf District.

(2) There are a total of eight villages in the Census division, Ioi, Maipa, Engefa, Inaukina, Ameaka, Piunga, Apanaipi and Babaningo, and these villages covered a population at the 1st September 1968 of 1,721, with Apanaipi being the largest village with a population of 530 persons

(3) The topography of the area is of rolling foothills in the area is of rolling foothills in the north of the census division sloping gradually to low lying, swampy areas to the south. The area is drained by three main rivers and of many subsidiary streams and creeks. The Akaifu river which has its headwaters in the Gailala sub-district flows fast and provides the water supply for Maipa, Ameaka, Piunga and Apanaipi. At Maipa the river is clean, swift flowing with a sand and gravel bed. By the time it reaches Apanaipi and begins its run to the coast to Lese in the Gulf District, it is meandering and dirty. The Imounga river, on which Engefa is situated meets the Akaifu about one mile south of Piunga and the Ioi river which drains the Ioi village area meets the Akaifu a little north of Ameaka. Both the Imounga and Ioi rivers are swift flowing, clean and thus supply an excellent water supply to the villages it serves. The second main river is the Makunga which flows past and drains Babanongo, and then meets the Akaifu at Apanaipi for the flow on to the coast. Inaukina is the only Bush Mekeo village not situated on a major river or stream.

4. The Division is rather prone to flooding, because its low lying topography and the fact that the bulk of its 80 inches of rainfall per annum fall within the months of November to March. This flooding causes ~~impossible~~ movement, during these months, to be almost impossible by foot and canoes are the only means of communication. The people of the more low lying areas, such as those of the villages of Babanongo, Piunga, Ameaka and more seriously Apanaipi are apt to suffer food shortages during the height of the wet season.

(5) The Bush Mekeo can be entered by either of three modes of travel, that is, land, water and by air. They are as follows.

a) By dry weather landrover/ tractor road to Babanongo and thence by canoe to Apanaipi and by canoes to Piunga and other villages on the Akaifu river.

b) By foot track from Beipa'a, a Mekeo village which is linked by road to Bereina, to Engefa and thence Ameaka.

c) By landrover to Inawauni and Imounga are Mekeo villages. It is by this route that this patrol entered the Bush Mekeo.

d) By motor canoes to Apanaipi from Lese, a port in the Gulf district. Lese is the main port from which the people of the Bush Mekeo export their cash crops to Port Moresby, and

e) By the use of the Category "D" airstrip at Maipa. This is used only by Stol, now Patair aircraft.

(6) The people of the Bush Mekeo have been in contact with the Administration since before World War 1 and have been closely administered ever since. Two formal patrols and a number of special patrols enter the area every year. This patrol found

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to people to the north of the Census Division to be friendly and obliging while the two southern villages are more or less indifferent towards the Administration. The area was incorporated into the Mekeo Local Government Council in 1963.

The census division has a natural increase of 3.27 per cent. There were seven migrants out of the census division covered to these migrations, in from other census divisions. This figure is based on the population of the Mekeo area and is otherwise, over the district of 77. Census figures attached.

(1) At the time of the census there were a total of 84 children and 218 adults absent working inside the district and a total of 2 children and 32 adults absent working outside the district. There is 15.8% of the population of the division that was absent through employment from the area.

(2) These figures compared to the last census are:-

	MAY 1962	SEPTEMBER 1962	DIFF.
Birth rate	5.30%	5.30%	Fall .08%
Death rate	2.03%	1.43%	Fall .60%
Natural increase	3.27%	3.87%	Rise .60%

and thus show both a fall in both birth and death rate for 1962 but a rise in the natural increase.

(3) All villages in the area with the exception of Babahongo and Aparapi are linked between villages is Ioi - Roger's which on a clear dry track is 24 hours walk. Aparapi and Babahongo are linked by river system.

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B) POPULATION DISTRIBUTION AND TRENDS,

(7) In the sixteen months from May, 1967, when the last census of the ~~van~~ Bush Mekeo was taken until the 1st of September, 1968, there were a total of 108 births, 62 of which were male, 46 female. This was a birth rate of 5.30 per 100 for the division. In the same period there were 27 deaths 17 males and 10 females for a death rate of 1.43 per 100. This gave the census division a natural increase of 3.87 per 100. There were seven migrations out of the census division compared to three migrations in from other census divisions. This is an increase in the population of the Bush Mekeo natural or otherwise, over the sixteen months of 77. Census figures attached.

(8) At the time of the census there were a total of 84 children and 218 adults absent working inside the District and a total of 2 children and 32 adults absent working outside the district. That is 19.6% of the population of the Division that was absent through employment from the area.

(9) These figures compared to the last census are:-

	<u>MAY 1967</u>	<u>SEPTEMBER 1968</u>	<u>DIFF.</u>
Birth rate	5.38%	5.30%	Fall .08%
Death rate	1.65%	1.43%	Fall .23%
Natural increase	3.73%	3.87%	Rise .14%

and thus show both a fall in both birth and death rate for 1968 but a rise in the natural increase.

10) All villages in the area with the exception of Babanongo and Apanapi are linked between villages is Ioi - Engefa which on a clear dry track is 2½ hours walk. Apanapi and Babanongo are linked by river systems.

C/ SOCIAL GROUPINGS.

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11) The people of the Bush Mekeo are a fairly homogeneous group, but there are three dialect groups in the division. They are:-

- a) ENGEFA DIALECT:- this closely parallels the Mekeo proper.
- b) IOI-MAIPA DIALECT:- with slight influence of Gailala words due to these villages geographical proximity to the mountain area.
- c) The third dialect and most vocal in the area is the INAUKINA; AMEAKA; PIUNGA; APANAIFI and BABANONGO dialect. APANAIFI is slightly influenced by the TAURIPI people of the Gulf district while BABANONGO is slightly influenced by the Mekeo proper.

12) There are a total of 38 clans in the Bush Mekeo and are divided as follows.

<u>Village</u>	<u>No. of Clans</u>	<u>Population</u>
IOI	2	128
ENGEFA	4	213
MAIPA	4	215
INAUKINA	5	184
PIUNGA	4	127
AMEAKA	4	149
APANAIFI	10	530
BABANONGO	15	166

13) These clans are patrilineal and exogenous and a few clans within a village are mutually exogenous. The clan chief has many traditional powers and privileges, mainly concerning land. The position of clan chief is hereditary and descends patrilineally the order of succession being the chiefs sons, in order of birth, the sons of his younger brother etc.

IOI	2	Standard 2 Education. Former member with DCA. Unspoken but intelligent. Pro-administration.
MAIPA	4	Clan chief, guarded by very influential. No education. Pro-administration. Coffee grower.
MAIPA	4	Councillor. Young and energetic. Willing to work. Coffee grower. Impassional and intelligent.
MAIPA	4	CAF employee. Director of the IOI-MAIPA-INAUKINA coffee processing complex. Speaks excellent English. Owns trade store. Pro-administration.
INAUKINA	5	Councillor. Former driver with DCA in Port Moresby. No formal education. Coffee grower. Clan chief. Pro-administration.
INAUKINA	5	Mission teacher. Standard 7. Young but respected. Village school. Reasonable pro-administration.
AMEAKA	4	Top of chief. Good but not very intelligent. Standard 2 education. Pro-administration.
AMEAKA	4	Councillor, son of clan chief. Influential. Standard 2 education. Respected in village.
PIUNGA	4	Standard 4 education and ITO AFO course.

D. LEADER-SHIP.

14. The Bush Mekeo has a system of Clan chieftanship and this person has considerable influence both in the clan and to the village, but this does depend largely on his own personality. The following list is of men who, during the patrols and staying in their respective villages showed qualities of both leadership and influence.

<u>Village</u>	<u>Name</u>	<u>Age</u>	<u>Remarks.</u>
IOI	Peter Keana	46	Hereditary chieftain. A former Catholic Mission teacher with a Standard 5 education. Top coffee grower in the village. Out but well spoken, intelligent. Reasonable pro-administration.
	Ame Kepo	53	Hereditary clan chief. Speaks little Motu, no English. Quiet but influential. Pro-administration. Coffee grower.
	Ibibi Bera	34	Former D.A.S.F. worker with 10 years experience. Standard 3 education and coffee grower course with DASF at Samarai. Coffee grower and village expert on coffee. Outspoken but intelligent. Pro-Administration. Village committeeman.
ENGEFA	Aufaumau Poigo	36	Councillor - little formal education. Reasonable influential.
	Pela Aua	32	Standard 2 Education. Former mechanic with DCA. Outspoken but intelligent. Pro-administration.
MAIPA	Kokoma Woipa	60	Clan chief, guarded by very influential. No education. Pro-administration. and very pro-mission. Coffee grower.
MAIPA	Ame Ogaisae	34	Councillor. Young and energetic. Willing to work. Coffee grower. Influential and intelligent.
	Thomas Ae	37	DASF employee. Director of the IOI-MAIPA-INAUKINA coffee producers complex. Speaks excellent English. Runs trade store. Pro-administration
INAUKINA	Beko Guanma	43	Councillor. Former driver with Patair in Port Moresby. No formal education. Coffee grower. Clan chief. Pro-administration.
	Gabriel Kala	26	Mission teacher. Standard 7. Young but respected. Village spokesman. Reasonable pro-administration.
AMEAKA	Ikama Pipi	36	Son of chief. Outspoken and intelligent. Standard 2 education. Pro-administration.
	Idobo Ikago	32	Councillor, son of clan chief. Influential. Standard 2 education. Respected in village.
PIUNGA	Paul Aoga	31	Standard 4 education and PHD APO course.

Aid post orderly Piunga. Very respected in village. Well spoken and intelligent. Very pro-administration.

Simon Ake 44 Councillor with ~~Standard~~ clan chief. Influential and well liked. Pro administration.

APANAIPI Kimange Imo 28 Councillor with Standar 6 education and APO training. Vocal but conservative. Respected. Indifferent to administration.

Alan Inaunge Village teacher. Standard 7 education. Village spokesman.

BABAONGO Lopia Kekele 46 Counillor. No formal education. Speaks good Motu. Respected and influential in village affairs. Pro administration.

15. As stated previously, these are the potential leaders in the village at the time of the patrol. It is quiet possible that there are potential leaders absent from the villages at the time of the patrol.

LAND USE AND TENURE

- 16) Land is defined as belonging to a village, clan and finally to an individual within a clan. This system is basically similar to other peoples of this Sub District.
- 17) A man will usually work his fathers land, but will, in some instances, be allotted another portion of land by his clan chief. The clan chief also allocates vacant land to individuals.
- 18) If a migrant clan moves into a village, it is usually allocated land which is either described as either being given or "bought". The situation is complicated by the fact that many clans hold there land more or less on sufferance, as they were originally migrant groups from other villages.
- 19) The clan system is still very strong in the area, so therefore there is little decent within the clan as a whole.
- 20) Moderately large scale coffee plantings have been started in the villages of IOI, MAIPA and INAUKINA and these plantings are by and large on an individual of immediate family basis, although there are some instances in INAUKINA that coffee blocks are planted on a clan basis.
- 21) Group effort are are limited, when concerning individually owned land, mainly to a reciprocal assistance arrangement between close kin and on a clan basis. This is of a traditional nature.

... school is situated approximately 20 minutes ...
 ... from Prep to Standard III ...
 ... teachers were present at this island for the ...
 ... figures were not obtained. ...
 ... study conducted in August ...

Males	55
Females	55
Total	110

... great difference in these figures at the pro- ...
 ... following totals are these. ...
 ... 125, Total 270.

... total of 12 boys attending the main school ...
 ... 2 miles out of Heron. ...
 ... by the Catholic Mission. The standards vary ...

... their children to gain a higher primary ...
 ... the Boarding School ...
 ... standards up to standard 3 are taught.

... the secondary education at the Catholic ...
 ... at this island. There are no students ...
 ... District.

... with the odd exception is. Teachers ...
 ... current school-age generation. ...
 ... and again it is those who have ...
 ... who are able to converse.

... the language groups of the region ...
 ... 55 - 65% of the male population and ...
 ... of the female population ...
 ... are fluent in both.

... however there would be approximately 5-10% of the ...
 ... have a fair to ...
 ... of the English language.

... the only person who ...
 ... with ...
 ... the Catholic ...

(F) LITERACY.

22. All schools in the Bush Mekeo are of primary standard and are run and staffed by the Catholic Mission. All teachers undergo a Teacher Training Course at Yule Island, and whilst the Patrol was in the area, a majority of teachers had just recently returned from a refresher course at Yule Island. The schools standard and pupils are listed as follows. English is taught in all schools.

<u>Village</u>	<u>Standard</u>	<u>Males</u>	<u>Females</u>	<u>Total.</u>
IOI	II	3	6	9
Teacher is Mary Ako and has Intermediate Certificate education.				
ENGEFA	PREP.	22	17	39
Teacher is Aisa Apunga with "A" certificate education.				
MAIPA	I	14	12	26
Teacher Guy Angeange.				
INAUKINA	PREP	12	12	24
Teacher Gabriel Kala - Standard 7 education.				
APANAIPI	PREP	20	7	27
	I	20	8	28

Prep is taught by Antony Iage with form I education while standard I is taught by Alan Anauga with also Form I.

BABANONGO	PREP	9	8	17
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Teacher is Louis Kuanga.

AMEIAKA/PIUNGA - This school is situated approximately 20 minutes walk from wither village. Classes from Prep to Standard III are held and are taught by Alan Iboa with Form I education. Unfortunately both teachers were absent at Yule Island for the refresher course and actual figures were not obtained. Figures shown in the previous area study conducted in August/September of last year were:

Males	45
Females	55
Total	100.

There would be no great difference in these figures at the present time so the following totals are these.
Males 145, Females 125, Total 270.

23. There are a total of 18 boys attending the Mainohana De la Salle college which is approximately 2 miles out of Bereina. This college is run by the Catholic Mission. The standards vary from Form I to Form IV.

24. Those wishing their children to gain a higher primary education usually send their children to the Boarding School at Beipa where standards up to standard 6 are taught.

25. Females continue the secondary education at the Catholic Mission Girls School at Yule Island. There are no students studying outside the District.

26. Literary in English is with the odd exception ie. Teachers Moresby worker etc, limited to the currant school-age generation. Edgin English is spoken very little and again it is those who have worked in the New Guinea area who are able to converse.

27. Police Motu is of course the lingua franca of the region and approximately 85 - 95% of the male population and 10-12% of the female population and 10-12% of the female population are fluent in Motu.

28. In English however there would be approximately 8-10% of the Area, in both the male and female groups, who have a fair to reasonable command of the English Language.

29. The IOI mission teacher Mary Ako is the only person who is residing in the Bush Mekeo with a higher education. She passed the intermediate certificate while attending the Catholic

girls school at Yule Island.

30. All those in the area who have received a higher education have sought jobs with Administration Departments or with Private Enterprise in the major townships, as employment is non-existent in the Bush Mekeo for persons of their education standard.

31. One man from IOI at the present time gaining a higher education. He is MOISAU AME who is attending the Officer Cadet School, Portsea, Victoria. At the completion of the course, if successful Moiseau will be commissioner in the Pacific Island's Regiment as a Second Lieutenant. There are also three University students.

32. There are a total of 17 radios in the villages of the Bush Mekeo, divided as follows.

<u>Village</u>	<u>Radios</u>	<u>Population.</u>
IOI	1	128
MAIPA	3	215
ENGEFA	4	213
INAUKINA	1	184
AMEAKA	2	149
PIUNGA	1	127
APANAIPI	4	530

There are no radios in Babanongo.

33. Music is really the only form of entertainment to which the radios are put to use. Interest in the news, even when read in Motu is negligible. There is a record player in IOI village owned by a former private enterprise worker recently returned from Port Moresby.

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G) STANDARD OF LIVING

34) There is heavy use of European utensils and artefacts in the Bush Mekeo. The utensils are primarily for eating, e.g., knives forks and spoons. Cooking utensils such as pots pans and teapots are also used.

35) Both female and male European cloths are worn, and this has led to a decrease in the making and wearing of traditional clothing. Traditional cloths are now more or less made for ceremonial occasions only.

36) The basis staple diet is that of sweet potato, taro and bananas. Coconuts are grown both for internal and village consumption and for the making of copra. Small amounts of sugar cane are also grown for home consumption. Pineapples are also grown.

37) There have been numerous crops introduced into the Bush Mekeo. These are oranges, corn, tomatoes and at PIUNGA, spring onions. Oranges are found in all villages and are sometimes exported into Port Moresby.

38) There are a number of shotguns in the Bush Mekeo and these provide for the families concerned, a source of fresh meat. The number of shotguns per village are as follows; IOI - 6; ENGEFA - 6; MAIPA - 4; INAUKINA - 4; AMEAKA - 5; PIUNGA - 6; APANAIFI - 14; BABANONGO - 4; This gives a total of 49 shotguns for a total population of 1712.

39) There is also a large amount of fishing carried out and the AKAIKU River provides a large amount of fish for the people to supplement the village staple diet.

40) There are 12 trade stores in the area divided up as follows: ENGEFA - 3; MAIPA - 2; INAUKINA - 2; PIUNGA - 1; APANAIFI - 3; and BABANONGO - 1:

41) These stores provide tea, sugar, tinned fish and bagged rice to the villages at varying prices. Tinned meat is in stock only when the trade store owner happens to be in either Port Moresby or Bereina to replenish his supplies. There was no tinned meat in the villages at the time of the Patrol.

42) There are no organised sports or community centres in the Bush Mekeo. However, there is a basketball court in every village and games are played most afternoons by both men and women. Sometimes there are inter village matches ~~bet~~ on Sunday afternoons.

43) All rivers with the exception of INAUKINA run past villages and provide a constant water supply for them. INAUKINA however has been provided with two wells by the Mekeo Local Government Council.

H) MISSIONS

44) The only Mission in the area is the Roman Catholic Mission. All villages have built a church in which a priest from BEIPA'A when on circuit stays and services and masses. The area is visited every two months to three months, and whilst the patrol was in the area, a Priest from BEIPA'A was on circuit.

45) The people of the Division identify themselves with the mission and while the patrol was in a village of a Sunday, services were held by the Mission teacher of that village.

46) The Mission employs all nine teachers in the Bush Mekeo villages and pays them at a rate of \$ 32 per month for married men.

47) The mission is very highly held in regard by the people as all the Mission Fathers who go on circuit can speak the Mekeo language and are in contact with the people on more occasions than the administration. The mission is also respected for the education it provides the children of the area.

48) APANAIFI is the only Bush Mekeo village which is not visited by BEIPA'A Mission personel. A Father from LESE visits Apanaifi by dingy every two months for services.

I) NON INDIGENESE

49) There are no non indigene resident in the Bush Mekeo. The only contact these people have with non indigene in there home area is by way of visits from Administration patrols and from Mission personel. The main Administration Departments which conduct patrols into the Division are Department of District Administration and by Extension Division Officers of the Dept. of Agriculture, Stock and Fisheries.

50) The main Administration Departments which conduct patrols into the Division are Department of District Administration and by Extension Division Officers of the Dept. of Agriculture, Stock and Fisheries.

51) The main Administration Departments which conduct patrols into the Division are Department of District Administration and by Extension Division Officers of the Dept. of Agriculture, Stock and Fisheries.

52) Therefore the lack of contact with non indigene in the Bush Mekeo is due to the fact that there are no non indigene resident in the area.

53) All villages with the exception of ... and ... are ...

- 54) ...
- 55) ...
- 56) ...
- 57) ...
- 58) ...
- 59) ...

60) The main Administration Departments which conduct patrols into the Division are Department of District Administration and by Extension Division Officers of the Dept. of Agriculture, Stock and Fisheries.

61) The main Administration Departments which conduct patrols into the Division are Department of District Administration and by Extension Division Officers of the Dept. of Agriculture, Stock and Fisheries.

62) In December of 1954, the ... provided both ... with ...

63) It would be possible to ...

64) There is a ...

65) The main Administration Departments which conduct patrols into the Division are Department of District Administration and by Extension Division Officers of the Dept. of Agriculture, Stock and Fisheries.

J) COMMUNICATIONS

12

50) As stated in the introduction, entry into the Bush Mekeo by road, with one exception is non-existent. This road is the dry weather tractor/landrover stretch between BABANONGO and the main BEREINA - BEIPA'A road. There is at present a landrover road linking BEIPA'A to INAWAUNI. (see map). But the cost of linking Inawauni to Imounga and thence on to IOI would be at this time both costly and uneconomical. Three bridges would have to be either bridged or forded between Inawauni and Imounga, and all these bridges are apt to be seriously flooded during the wet season. A road from IOI to MALPA would be easily enough to put through with only two minor streams to be crossed. But these roads would have to only dry weather affairs due to the effect of excessive flooding of low areas during the months of November to May.

51) The distance from Inawauni to Imounga is three hours walk on a clean dry track, and passes through foothills and dense tropical and heavily wooded vegetation. From Imounga to IOI is approximately 1½ walk but is very damp for a good nine months of the year.

52) A continuation of the road from BABANONGO following the MAKUNGA river to APANAIFI would also be uneconomical and at the best of times would only be open to traffic for three months of the year. Upkeep would also be very expensive.

53) Therefore the cost of putting in a road into the Bush Mekeo by either of the two routes would at this time uneconomical.

54) All villages with the exception of APANAIFI and BABANONGO are linked foot track to one another. Listed below are the walking times from village to village on clean dry tracks.

IOI - MAIPA - 1½ hrs.
MAIPA - INAUKINA - 1½ hrs
INAUKINA - AMEAKA - 1½ hrs
AMEAKA - PIUNGA - 2 hrs. - through swamp and bad track
ENGEFA - MAIPA - 3 hrs. swampy
ENGEFA - IOI - 2½ hrs. - swampy clear track
ENGEFA - BEIPA'A - 4 hrs.

55) Travel from BABANONGO to APANAIFI and from APANAIFI to PIUNGA is by canoe, and these canoes are manned by Administration Ferrymen. There are seven Ferrymen in the Bush Mekeo.

56) The times by canoe are as follows:-
PIUNGA - APANAIFI upstream 6 hours downstream 3 hours
APANAIFI - BABANONGO " 7 " " 4 "
These times were taken when the rivers were at their lowest level.

57) In December of last year, the Mekeo Local Government Council provided both BABANONGO and APANAIFI with outboard motors. These are now being used by these villages to export cash crops to the coast and thence by coastal shipping to Port Moresby for sale.

58) It would be possible for a large flat bottomed boat to go as far up the AKAIKU River as APANAIFI. If a wharf and shed were built this village could be used as a staging point for the exporting of cash crops to Moresby.

59) There is a Cat. "D" approximately half a mile from MAIPA village. This is the only airstrip in the Bush Mekeo. It was built by the people of IOI, MAIPA and INAUKINA on the site of an old war time drop site and emergency landing ground.

61) Previously the maintenance of the strip was carried out by people of the three villages concerned. This proved unsatisfactory.

(11)

The Mekeo Council has now employed two full time labourers and purchased a motor mower to be used exclusively on strip maintenance. The strip was inspected by the patrol and found to be in good condition.

62) STOL began airtservices into MALPA in 1962. The company bought local produce at the strip and sold it for profit in port Moresby. This trading died of and the strip was used for passenger charters services only. The strip is used two to three times a week.

(70)

K) TECHNICAL AND CLERICAL SKILLS

63) The majority of all Bush Mekeo people who have either the education or training to fit these occupations are absent in the larger towns of the Territory. There were two persons of any skilled occupation living in the area at the time of the patrol.

64) (a) GEORGE IBIBI BERA:- a former DASF employee who attended a six months course at Samarai concerning coffee growing. George is now living in his home village of IOI and is now one of the biggest coffee growers in the village. He assists all coffee growers of his village with the more technical side of coffee production.

(b) DANIEL BEKO GUANMA:- was a former bus driver with Papuan Airlines in Port Moresby for ten years. The death of his brother brought Daniel back to his village of INAUKINA. He is now the Councillor for his village and is a prominent coffee grower in the village.

65) Until there is any semblance of industry or commerce in the Bush Mekeo, these skilled workers will still seek employment outside the area.

9

L) STAGE OF POLITICAL DEVELOPEMENT

66) The people of the Bush Mekeo have experienced five elections since 1963. They have been the Mekeo Local Government Council Elections of 1963; 1965; and 1967, and the House of Assembly Elections of 1964 and 1968. Even with this number of elections which have been held in the Division, there is still a lack, even amongst those with a little Mission education as to the ideas of government.

67) The Bush Mekeo village councillors are vocal as only in respect to their own villages. Should the members for the Bush Mekeo villages combine on points relevant to the development of their area then the 9 votes carried by them at a council meeting out of a total of 30 councillors in the Mekeo Council could swing more money into their area as regards council projects. But as it is there is no thought of combining and it is still one councillor for one village.

68) As previously stated in the Introduction, the people of the northern section of the Bush Mekeo, i.e. the villages of IOI: MAIPA: INAUKINA: ENGEFA: PIUNGA: and AMBAKA are pro administration while APANAIFI and BABANONGO are more in the same vein as their Mekeo proper cousins and tend to be more or less indifferent to the Administration. Independence and self government is not yet thought about, let alone talked about.

69) There are no factions evident in the Bush Mekeo.

70) There is not yet understanding of the machinery of Government. When the patrol asked the people if they knew who were their representatives in the present House of Assembly, there were only three people who could name them.

M) THE ECONOMY OF THE AREA

71) In the villages of IOI, MAIPA and INAUKINA there has been cash cropping of coffee since 1964. The following lbs of produced coffee have been sold to the Extension Division of D.A.S.F.

1964/5	7013 lb.
1965/6	7700 lb.
1966/7	18894 lb.
1967/8	26000 lb.
To date 1968/9	11529 lb.

72) The total payment to date at the 1st September 1968 is £ 1633.00. The production for the year 1967/8 yielded £ 3,640.00.

73) The estimated total production for 1968/9 is 20,000 lb. This is 6,000 lb below last years production. The reason for this has been the lack of pruning of the trees at the right time.

74) The coffee is bought at MAIPA by a D.A.S.F. Extension officer and is weighed, bagged and then shipped down the AKAIFU River to LESE for movement to Port Moresby. The price for coffee which is paid to the village people is 14 s a pound.

75) Listed below are the coffee figures for each of the three villages.

MAIPA:

MAJOR BLOCK OWNERS	MATURE	IMMATURE	TOTAL
Thomas Ae	458	170	628
Guy Poimau	986	325	1311
Aminau Fala	691	289	980
Apou Oangua	516	27	543
Poimala Fala	589	27	616
Alano Kaiva	401	28	429
Pa'afi Auvifo	430	173	603
Maranno Peniaimo	488	98	586
Ame Vangu'u	498	43	541

Total block owners - 25
 Total mature trees - 9,297
 Total Immature trees - 2912
 Total trees - 12,209

IOI:

Ame Geanga	288	123	411
Peter Keana	392	334	724
Avei Omeffa'a	380	46	426
Ibibi Bera	329	176	505
Mariano Peniaimo	421	284	705

Total Block owners - 17
 Total mature trees - 3736
 Total Immature trees - 1719
 Total trees - 5455

INAUKINA:

Apini Amifua	321	164	485
Beko Guaumo	500	194	694
Pelo Fongea	333	141	774

Total block owners - 14
 Total immature trees - 1652
 Total mature trees - 2452
 Total trees - 4104

COMBINED TOTALS

Block owners - 56
 Mature trees - 15,485
 Immature trees - 6,283
 Total - 21,768

76) At ENGEFA, a total of 2740 rubber trees were planted two years ago by D.A.S.F. Extension. It is expected that these trees will be ready for tapping in another three years. Processing and exporting will be difficult as there are only two avenues of transport.

a) By foot to BEIPA'A, a four hour walk, then by tractor to Bereina and thence by plane to Moresby.

b) By foot to AMEAKA, a 2½ hour walk and then by canoe to LESE and shipment to Port Moresby

77) There are a total of 14,000 betel nut trees in the Bush Mekeo. APANAIPi, AMEAKA, PIUNGA and BABANONGO ship the betel nut to LESE and then on to Moresby. At ENGEFA however, a little betel nut is carried out through BEIPA'A to Bereina for movement out by plane.

78) Figures as regards the total weight of betel nut which is exported is impossible to ascertain as there are no figures available. Most grown betel is used primarily for home consumption.

79) There are a total of 15,000 coconut trees in the Division. The major villages being ENGEFA - 4900; APANAIPi - 4,000; and INAUKINA - 3,500. Small amounts of copra are shipped from APANAIPi to LESE, the figures being as follows:

12 X 100 lb. bags per week.

Bought at the Co-Operative store at LESE at 4¢ a lb.

This gives an estimate of of \$2,500 per annum income on copra.

80) Copra is also produced at Engefa and Inaukina and sold at LESE. No accurate figures can be given but an estimate of \$800 p.a. per village would be fairly accurate.

81) Vegetables such as Taro, Sweet potato and bananas are exported from BABANONGO and APANAIPi to LESE for sale.

82) Total cash earnings and the capita per head income for the Bush Mekeo are:

Coffee - Ioi, Maipa and Inaukina -	\$3,640	
Copra - Apanaipi, Engefa and Inaukina -	\$4,100	
Betel Nut - All villages -	\$2,000	- estimate
Vegetables - Babanongo and Apanaipi -	\$1,200	- "
Trade stores - Total 12 @ \$ 50 p.a. -	\$ 600	

Total Income \$ 11,540

Income per head \$7.00 p.a.

83) There are no registered co-operatives in the area. There is however a tri-village transport group which exports the IOI-MAIPA-INAUKINA coffee to LESE.

84) There is a total of 19 Bank Accounts in the area which yielded a total of \$ 1,140. The majority of these accounts have not been used for many years.

6

N) POSSIBILITIES OF EXPANDING THE ECONOMY.

85) It is possible that the rate of coffee growing could, with the amount of arable land available around IOI, MAIPA and INAUKIMA increase ten fold. At the present rate of growth and production, the Bush Mekeo, by 1970/71 would be exporting 100,000 lbs of coffee for an annual income of \$14,000.

86) If a wharf or landing were to be built at APANAIFI, the export of copra and market gardening crops would increase by 200% on the amount which is already being exported to Port Moresby.

87) There are extremely large areas of timber in the Bush Mekeo particularly in the MAIPA-IOI region and the AMEAKA-PIUNGA region. But with the lack of roads, the timber would either have to be processed in the Bush Mekeo or floated downstream to APANAIFI for processing.

88) The Bush Mekeo has the possibility of becoming a secure economic area, but for the lack of roads in the area, and the Divisions weakness for excessive flooding, the Bush Mekeo could develop as such.

89) During the last financial year... the Bush Mekeo...
90) MAIPA AIR POST, this air post was opened and operated in early January 1967. It is situated in the village of MAIPA...
91) MAIPA AIR POST, this air post was opened and operated in early December 1967. It is situated in the village of MAIPA...
92) MAIPA AIR POST, this air post was opened and operated in early January 1968. It is situated in the village of MAIPA...
93) These projects over the past year... installed... to the... of the...

O) ATTITUDE TO LOCAL GOVERNMENT

89) The Bush Mekeo Census Division was incorporated into the Mekeo Local Government Council in 1963. The area has a total of nine councillors representing the eight Bush Mekeo villages out of the total of 30 members of the Council. Apanaipi is the only village in the Division. Listed below are the names of the councillors and the number of committeemen in each village.

<u>VILLAGE</u>	<u>COUNCILLORS NAME</u>	<u>NO. of COMMITTEEMEN</u>
BABANONGO	LOPIA KEKELE	2
APANAIPI	KIMAGE INO	4
"	AGO POIOKO	-
IOI	KEAGE KEAGE	2
MAIPA	AME OGASAE	2
INAUKINA	BEKO GUAMO	2
AMEAKA	IDOBO IKAGO	2
PIUNGA	AKI AKI	2
ENGEFA	AUFAMAU POUFA	2

90) The fifth Mekeo Local Government Council General Elections will be held in early 1969.

91) During the last financial year from July 1967, the Bush Mekeo people have received the following projects from the Mekeo Council.

92) PIUNGA AID POST; This aid post was completed and opened in early January 1968. It is staffed by Paul Aogo a native of PIUNGA village. The aid post is situated midway between PIUNGA and AMEAKA villages, approximately 10 minutes walk from both villages. The combined population of both villages is 276 persons.

93) MAIPA AID POST; This aid post was opened and staffed in early December 1967. The A.P.O. is Ikupu Vene of Ere Ere village in the Waima Census Division of this Sub District. This aid post serves the villages of MAIPA, IOI and INAUKINA with a total population of 527 persons. Every two months the A.P.O. visits INAUKINA and IOI for village inspections and medical services.

94) BABANONGO & APANAIPI; The council has supplied both these villages with one Mercury 20 h.p. outboard motors each. These motors are used for the transporting of cash crops to LESE, a Gulf District port, and thence to Port Moresby for sale. Each village has a committee which decides how and when these outboards will be used.

95) MAIPA AIR STRIP; The Mekeo Council has now employed two full time labourers, and purchased a motor mower to deal exclusively with the maintenance of Maipa airstrip. With the airstrip being attended to daily, the chances of its falling into a state of disrepair as it was previous to the Councils action is now very unlikely.

96) These projects over the past years, and the two wells which were installed at INAUKINA in 1966 have enhanced the reputation of the Mekeo Council to the people of the Bush Mekeo.

P) ATTITUDE TOWARDS CENTRAL GOVERNMENT

97) As stated in the Section on Political Development, the people of the Bush Mekeo are not yet aware of the workings of the House of Assembly or have any knowledge of the two members of the House who represent them.

98) These peoples attitude to the Administration, is, as explained previously, varies from very pro administration to indifference. The only two administration departments which come into contact with these people are D.D.A. and D.A.S.F.

99) Even though these people have had various patrols lecture to them on Political Education and have voted in five elections, this patrol, when talking to the people found that they had little interest in the House of Assembly.

3

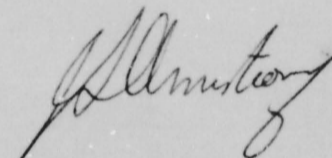
BEREINA PATROL NO. 2 OF 1968/69.

POLICE REPORT.

NAME: Constable Gilman No. 1864.

CONDUCT: Fair.

REMARKS: Speaks little English, cannot think for
himself.



J.S. Armstrong,
Cadet Patrol Officer.

VILLAGE POPULATION REGISTER

(Folio No. 1.)

2

Birth Rate = 5.30 per 100

Death Rate = 1.43 per 100

Year 1968 Month AUG - SEPT

Natural Increase = 3.87 per 100

VILLAGE	Day of Month	DEATHS										BIRTHS	MIGRATIONS								
		Under 1 Year		1-5 Years		6-10 Years		11-15 Years		16-45 Years			46 and over		IN		OUT				
		M	F	M	F	M	F	M	F	M	F		M	F	M	F	M	F			
1	AMEAKA	30/8	-	-	-	-	-	-	-	-	-	-	1	-	1	3	6	-	-	4	1
2	APANAIPU	4/9	-	-	-	-	-	2	-	-	-	1	-	3	-	16	17	2	3	2	3
3	BABANONGO	6/9	-	-	1	1	-	-	-	-	-	-	-	-	-	7	3	-	1	-	-
4	ENGEFA	3/8	-	-	-	-	-	-	-	-	-	-	1	-	2	7	3	-	-	2	-
5	INAUKINA	29/8	-	-	1	-	1	-	-	-	-	-	-	-	9	5	1	3	4	8	-
6	IOI	24/8	-	-	-	1	-	-	-	-	-	1	-	-	2	2	-	-	-	-	-
7	MAIPA	27/8	-	-	3	-	-	-	-	-	-	2	3	-	11	4	-	1	-	-	-
8	PIUNGA	3/9	-	-	2	-	-	-	-	-	-	1	-	1	7	2	3	8	-	1	-
9																					
10																					
11																					
12																					
13																					
14																					
15																					
TOTALS			-	-	7	2	1	2	-	-	2	4	7	2	62	46	9	16	10	15	

VILLAGE	Day of Month	ABSENT WORKERS				ABSENT				STUDENTS											
		Inside District		Outside District		Inside the District		Outside the District		Government		Mission									
		Child	Adult	Child	Adult	Child	Adult	Child	Adult	Child	Adult	Child	Adult								
		M	F	M	F	M	F	M	F	M	F	M	F								
1	AMEAKA	30/8	-	-	10	6	-	-	2	-	-	-	-	1	3	-	1	-	-	-	-
2	APANAIPU	4/9	26	27	67	34	1	-	3	-	-	-	1	-	1	-	1	1	-	-	-
3	BABANONGO	6/9	3	4	22	5	-	-	-	-	-	-	1	1	1	3	-	-	-	-	-
4	ENGEFA	3/8	-	1	14	2	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-
5	INAUKINA	29/8	4	5	18	7	-	1	5	3	-	1	-	1	2	2	-	-	-	-	-
6	IOI	24/8	3	2	8	2	-	4	-	-	-	-	-	-	4	2	-	-	-	-	-
7	MAIPA	27/8	3	2	13	2	-	10	1	2	1	1	1	1	7	3	1	-	-	-	-
8	PIUNGA	3/9	2	2	6	1	-	3	1	-	-	1	-	1	2	1	1	-	-	-	-
9																					
10																					
11																					
12																					
13																					
14																					
15																					
TOTALS			41	43	153	60	1	1	27	5	3	1	5	-	8	17	12	10	-	-	-

VILLAGE	Day of Month	POPULATION IN VILLAGE AT TIME OF CENSUS										TOTALS, inc. ABSENTEES		GRAND TOTAL	Average size of Family						
		Under 1 Year		1-5 Years		6-10 Years		11-15 Years		16-45 Years		46 and over				Child	Adult				
		M	F	M	F	M	F	M	F	M	F	M	F			M	F				
1	AMEAKA	30/8	3	6	11	9	10	9	9	8	24	26	7	4	34	35	43	57	149	3.41	
2	APANAIPU	4/9	11	9	32	42	46	27	24	23	54	28	18	11	134	128	146	119	530	3.37	
3	BABANONGO	6/9	5	2	10	9	13	10	10	9	18	23	6	11	42	35	47	42	166	3.34	
4	ENGEFA	3/8	6	6	15	15	18	10	8	15	36	42	14	8	44	47	64	53	213	2.83	
5	INAUKINA	29/8	9	4	7	10	6	14	14	8	24	27	8	4	41	44	58	44	184	2.97	
6	IOI	24/8	-	2	10	13	11	8	6	4	14	19	6	3	33	31	37	27	128	4.62	
7	MAIPA	27/8	9	3	21	15	17	11	13	6	26	25	8	15	65	65	61	44	215	4.44	
8	PIUNGA	3/9	3	5	11	9	11	10	5	10	14	19	6	3	33	38	31	25	127	3.41	
9																					
10																					
11																					
12																					
13																					
14																					
15																					
TOTALS			46	37	117	122	140	99	89	83	240	244	73	59	436	403	485	358	1712	3.55	

