

# ROTARIANS AGAINST MALARIA



## LONG LASTING INSECTICIDAL NET DISTRIBUTION REPORT

### Milne Bay Province

Carried Out In Conjunction With The Provincial And District Government Health  
Services And The Church Health Services Of Milne Bay

Supported by Global Fund and Against Malaria Foundation

**8 February to 5 May 2017**



## Summary

A survey and distribution of Long Lasting Insecticidal Nets (LLINs) to family level was carried out in the Milne Bay Province 8 February to 5 May 2017.

This is the fourth time that Milne Bay has received nets and the third time under RAM with Global Fund funding. In Round Three of the Global Fund, distributions were carried out in various districts at different times, Esa'ala and Kiriwina Goodenough in 2006, Samurai Murua in 2007 and Alotau in 2008. These initial distributions were coordinated by the Provincial Health Authority but in 2010, 2013 and now in 2016 these distributions of LLINs in Milne Bay were carried out under the coordination of RAM with joint implementation together with the Milne Bay Provincial Health Authority. It should also be noted that this is the first province in PNG to receive nets from Against Malaria Foundation which is a British NGO who contributed in the case of Milne Bay 90,300 LLINs of the nets distributed. Against Malaria Foundation has requested a better verification process to ensure that surveys are carried out properly, and Milne Bay is not the second province where this verification process has been carried out. The verification process had been first tested out in East New Britain.

From an estimated projected population for 2017 in Milne Bay Province of 320,534 (114,886 Alotau, 65,115 Samurai Murua, 77,365 Kiriwina Goodenough and 63,168 Esa'ala), the project recorded a population of 324,946 534 (116,123 Alotau, 64,993 Samurai Murua, 78,587 Kiriwina Goodenough and 65,243 Esa'ala) people living in the province. To this population were distributed 158,278 (56,517 Alotau, 32,468 Samurai Murua, 37,817 Kiriwina Goodenough and 31,476 Esa'ala) giving an overall ratio of 48.5 LLINs distributed to every 100 people.

A further 1,349 LLINs were donated to health centres as nets were surplus to requirement and in most cases could not be easily returned to a central location. These nets would be used by pregnant mothers and for hospital beds where needed.

The overall cost of the programme was K457,987.91 Kina resulting in a cost of about 2.89 Kina or US\$0.92 per net delivered which was about 13% under the anticipated overall budget. All budget lines were generally lower than expected.

The support given by the provincial health authorities, the various health centres involved in the project and all community members was tremendous. Partners included the Provincial Government Health Services and church health services, particularly the Catholic and United Church Health Services. Many others assisted including teachers and head masters, village councillors, village leaders, Village Health Volunteers (VHV), and many others too many to mention who helped the programme in individual or collective ways.



Fig.1 – Meeting With Health Staff (Left) and Training (Right) In Rabaraba

Feedback from partners and communities suggest they were happy with the methodology used as the process appeared transparent to all concerned. However, as always, there were a few

families who complained that they did not receive enough nets but for the most part it is believed that this was a result of families not fully understanding the allocation system used.

**Schedule**

This distribution took place in the eighth year in which RAM has been involved in the distribution of nets with Provincial Health Authorities in PNG. The first five years of this programme were referred to as the Round Eight Global Fund Programme and the last two years as the New Funding Model for which RAM has received three years funding for the Global Fund for the period 2015 to 2017.

Survey and distributions were carried out as per the table below. The first operation started in Murua Rural in Guasopa Health Centre on Woodlark Island as Geopacific Resources Limited has a monthly flight to this area and were able to take one of our staff. Following Murua, the hired boat MV Tiare took a team to other parts of Samarai Murua and the south coast of Alotau District and then returned to Alotau and then continued to take other RAM team members to the north coast of Alotua, Goodenough, Kiriwina and lastly locations in Esa’ala with a total of four separate trips. The last areas to be done were the on road assessible areas of Alotau District. Most areas were finished by the 13 April but it was later discovered that two villages had been left out and M&E Teams returned to complete distributions in May.

**Table One**  
**General Timetable Of Activities In Milne Bay**

District	Survey		Distribution	
	Start	Finish	Start	Finish
Alotau	27.02.17	10.04.17	01.03.17	25.05.17
Samarai-Murua	08.02.17	03.03.17	09.02.17	10.03.17
Kiriwina-Goodenough	13.03.17	30.03.17	24.03.17	01.04.17
Esa’ala	14.03.17	09.04.17	17.03.17	13.04.17

**Background**

Rotarians Against Malaria (RAM) is a nationally based organisation which was formed in 1997 by the Port Moresby Rotary Club in recognition of the tremendous burden that malaria imposes on the people of PNG.

RAM has a mandate to work in malaria control in Papua New Guinea and has been working for many years with the National Department of Health (NDOH) and other partners including bilateral agencies such as UNICEF and WHO (World Health Organisation), NGOs and church groups.

RAM’s most prominent activity during the early part of its existence has been in the supply of mosquito nets at cost price to the NDOH and other partners throughout PNG. In this respect, RAM was also a major partner to the NDOH during the Global Fund Round Three programme in the country. During this programme, RAM procured and delivered Long Lasting Insecticidal Nets (LLINs) to every district in the country from 2004 to 2008 sufficient to cover 80% of the population. These nets were then delivered to household level by provincial health authorities.

For a variety of reasons, in 2009, the National Department of Health requested RAM to take over the coordination of the distribution of LLINs throughout PNG. Since 2010, RAM has coordinated the procurement and distribution of LLINs to provincial and district level throughout the country. However, for the distribution of nets to household level this has been jointly

implemented with provincial, district and church health services. Between 2010 and 2016, RAM has coordinated the distribution of 7.5 million nets to household level and a further 1.1 million nets to pregnant women mothers and other vulnerable groups such as boarding students and inmates or correction centres.

RAM was awarded another three year contract by the Global Fund (known as the New Funding Model (NFM)) which will expire at the end of 2017 with a further contract now expected to cover the period 2018 to 2020. The contract is to continue with the coordination of the distribution of LLINs throughout PNG.

For the New Funding Model of 2015 to 2017, Global Fund cut their funding which forced the National Department of Health to stratify the distribution of LLINs in different parts of PNG as there was no longer enough funds to cover all parts of the country. This stratification was based on malaria epidemiology and ease of access to health services. As a result of this PNG was divided into four zones:

- a) Areas which lie above 2000m in altitude will no longer receive LLINs as malaria transmission is not considered possible at these altitudes.
- b) Low lying areas of the country which have high malaria endemicity and poor access to health continue to have household distributions, and
- c) Highlands regions between 1500 to 2000m in altitude such as Mount Hagen which have low malaria endemicity and generally easy access to health services, these areas will now have nets given to under five children.
- d) In urban and peri-urban areas such as Port Moresby and Lae where access to health is considered easy, under five distributions will be carried out.



**Fig.2 Training Of Volunteers In Moratau (Left) and Loisua (Right)**

Fortunately, Milne Bay comes completely under zone (b) which is low lying and endemic which means that the whole of Milne Bay has had household distributions at the rate of approximately one net for every two people.

However, it should be noted that for 2015 and 2016, many districts in the highlands either did not receive nets if they were high altitude or had under five campaigns, particularly in the areas between 1600 – 2000m though some areas below this altitude were also affected. Funding shortages were even more acute for 2017.

During 2016, RAM has been very fortunate to get further funding from a British NGO called Against Malaria Foundation (AMF). In this agreement, AMF will purchase nets for PNG and the Global Fund will pay for their distribution. This has meant that in 2017, all targeted areas, except for those above 2000m such as Kandep in Enga Province will receive full household coverage.

One of the conditions of the AMF donation is that RAM would strengthen the way in which surveys are carried out. These new processes are described in the Methodology Section and Milne Bay is the second province where this new system was put into action though Milne Bay is the first province to receive nets from AMF.

For household distributions, all LLIN distributions regardless of where they are carried out must include a survey and a distribution phase though implementation methods may vary considerably depending on circumstance. RAM's approach has been to concentrate on quality and develop methodologies that ensure that all recipients in an area actually receive nets and that this can be reported accurately.

The processes used by RAM include recording all family members by name, age, sex and relationship to household as well as giving each household surveyed a white receipt that confirms that they have been surveyed. One of the new innovative practices now being introduced is that surveys are carried out by village volunteers who before submitting lists for distribution of nets, must hang a summary of all the households they have surveyed in a public place so the villagers can see how many people have been recorded in each household. This is to ensure that everyone has been included and that non-existent people have not been included. This process is further strengthened by 5% of all households in each village being randomly resurveyed to verify that the survey volunteer has done their job properly.

The other major change to the original PNG programme of 2004 to 2009 carried out by the NDOH is that nets are allocated to families on a needs basis rather than simply the number of people in the family. Data analysis of National Capital District (NCD) data has shown that this gives a ratio of nets needed to be about 47 for every 100 people. In the previous distribution of Round Three, nets were allocated at a rate of one net to every 2.5 people. With the programme only receiving 80% of needs, and most provinces distributing for example two nets to families of three, in practically every province, nets ran out before the end of the distribution. The RAM programme makes all attempts to assure that this does not happen by collecting all population information first and then allocating the nets based on needs as well as availability of nets to ensure that all families receive nets throughout any given province. The only scenario where survey and net distribution may be simultaneous is in very remote locations where it is not practical to return a second time.

In terms of coordination, RAM officers are allocated to specific LLGs or health centres where they coordinate the programme together with local health staff. In this capacity, RAM officers act as facilitators in terms of technical guidance to district health teams in each LLG as well as acting as financial officers and assuring quality control of activities taking place.



**Fig.3 – MV Tiare That Took Nets And Staff To Sirisiri (Left) MV Tiare Delivery In Daga (Right)**

## **Methodology**

Prior to planning and all implementation, a master list of villages of Milne Bay was drawn up using data from the 2000 Census. Villages in the list are organised by LLG and Ward. In this master list, the estimated population for 2016 for each village is recorded which is estimated from the 2000 Census figures and the estimated annual growth rate for Milne Bay and also compared with previous surveys carried out by RAM in 2010 and 2013. With this data, the project manager of RAM worked together with the Provincial Health Office to create a budget and have a planning outline for the programme throughout the province. Much of the planning was the allocation and transport of nets to each of the health centres involved in the programme.

In terms of all further coordination and planning, the RAM teams worked in close coordination with the Provincial Health Team of Milne Bay. Jointly the main health facilities in each Local Level Government (LLG) areas (whether government or Church Based) were selected from which operations would be carried out. Each health facility identified staff members or non-health volunteers to be involved with the programme and these became the District Health Team (DHT) if health staff or team leaders (if not health staff) responsible for the survey and distribution of nets. Each DHT and team leaders worked in the area in which the health facility was based.

Using the master list of villages, it was possible to group all villages into areas to be covered by each health centre and estimate the number of teams and DHTs needed at each health centre to carry out the work. The RAM project officers were then assigned to specific health centres with whom they would work with to facilitate the household survey and the LLINs distribution in each LLG.

Before any activities take place, RAM officers are expected to work with health staff and other team leaders to make detailed plans of their activities for training, survey, verification and distribution of nets. This involves making maps of the area, deciding how many teams are needed, and then making detailed work plans for each of the team members. This process also involves verifying that no villages have been left out of the census list and that the whole area is covered.

Also prior to field activities in any given LLG, a social awareness campaign was carried out in all villages informing villagers of the upcoming survey and distribution. This was also used as an opportunity for RAM officers to become familiar with each area. During this process, key malaria messages were also discussed with villagers such as the need to use LLINs every night.

During the social awareness campaign, a one-day training meeting is normally held at each health facility for all DHT members in that area who together carry out a micro-planning exercise. These training and micro-planning sessions as well as all other activities associated with the programme are coordinated by RAM project officers together with health counterparts at provincial and district level. RAM officers also have the responsibility to ensure the LLINs operation kept in line with the original micro-plan and budget.

## ***Survey***

The survey was carried out in the following way.

- 1) When arriving at a village and before starting the census process, a meeting was held with village elders explaining the process.

- 2) If village elders have a list of all village occupants, the team would use this list to compile a census.
- 3) Where a village is small, e.g. less than 30 families, team members may carry out the census by themselves.
- 4) Where villages were large, village volunteers were identified with the assistance of the village chiefs, elders, health staff and councillors. One volunteer was chosen for each group of about 50 families with volunteers chosen by natural divisions in the village e.g. clans where one volunteer would make a list of only one clan. These volunteers were trained to carry out the survey by actually surveying houses with the team leaders supervising and assessing the recording. Once the team leader was confident that the volunteers knew the survey methodology, they were left to continue with the household survey with survey teams returning within an agreed period to verify the work of the survey volunteers, collect survey books and also to pay the survey volunteer if the work has been carried out correctly.
- 5) For each household surveyed, all family members who normally resided at the household for a minimum of nine months were recorded by Name, Age, Sex and Relationship to head of household. All names and other information was recorded in the survey book with one survey form being used for each household.
- 6) After surveying a house a white copy of the census form was given to the head of household or most senior person present in the household.
- 7) Where a whole household was absent, information was taken from the neighbours and the white survey form left with them.
- 8) In all cases, after the census/list was finished, all the information about the households and number of household members is entered into a summary sheet. This list is then hung in a public place where all villages can verify that the right number of family members for each household has been recorded and that all families have been included in the survey. After the list has been in a public place for 24 hours, then the volunteer requests for the RAM officer and or DHT to visit the village.
- 9) RAM officers and DHTs must visit three households randomly from each survey book (6%) and verify that the survey has been carried out correctly. Only when this has been done, then the volunteer can be paid.
- 10) If a village was surveyed by more than one volunteer, then volunteers are asked to work together so that lists can be hung together and the village volunteers can be verified at the same time. This process also ensures that households do not appear on more than one list. After this process, both the volunteers and the village elders sign a form to verify that this was done.
- 11) All village volunteers received a standard payment of 20 kina a day. Experience has shown that volunteers can usually only survey about 30 families a day, so for the most part, they would receive up to two days allowance to complete a survey book.
- 12) All volunteers are also given a small training manual. Contained in this training manual are key health education messages about malaria which volunteers are expected to discuss with households. This perhaps is the only project in PNG that is able to reach down to potentially every household in the country.

To aid with the survey, the master plan with names of all census units in all the wards in the district had been printed out and given to all the team leaders of the DHTs. This document also provides the projected population per census unit as well as other information which might be useful to the area concerned.

After getting data from each village, the information is immediately compared with the data on the master sheet. Where the surveyed population is very different from the projected population, the project staff make enquiries into the reasons for these discrepancies.

Following the survey, all data was entered into a computer where possible or entered into a master sheet of the area concerned. For each village, nets were allocated to each family on a

needs basis and this is also entered into the computer or master sheet. This process ensured that all villages received nets and that there would be no shortfalls.

The needs basis in PNG is based on the assumption that children under the age of six sleep with their parents, after which boys and girls are grouped separately from their parents. Nets are also allocated based on the number of children in the house their ages, and whether there are other dependents living in the households such as grandparents. A full description of the allocation system can be obtained from RAM officers but suffice to say a family of four could receive between one to four nets depending on the sex and age of family members.



**Fig.4 Offloading A Plane (Left) And Trekking Nets In Agaun (Right)**

Nets are allocated to each LLG based on assumed populations of each LLG and it was important prior to the distribution to ensure that when allocations had been carried out to families and villages that there were enough nets available to cover each and every family.

### ***Distribution***

There was no official launch for the LLINs distribution. However, prior to distribution there was a social awareness phase where the project teams informed communities about the arrival of the distribution teams, especially those accessible by road.

The LLINs were then distributed to teams depending on the needs of each village. The LLINs were then distributed by village or wards depending on whether villages were close together. In this latter case, a central location was identified in the ward and distribution of nets was carried out. In terms of distribution sites, villages were organised in different ways to make the flow of nets easy and effective. However, the actual organisation depended on each team and the structure of the various groups receiving nets.

All net packaging was opened at distribution with a district code printed on each net e.g. MB17 for Milne Bay 2017. This code is added to identify nets to assist in future monitoring exercises as well as discouraging householders from selling the nets on the open market.

Some examples of the process used to control the crowd includes;

- Arranging the people according to the serial numbers in the survey books e.g. 72001 - 72050 and then calling the names and the serial numbers.
- Call the names of the owners of the households, collect the white copy and give the nets.
- Wait for everyone to come to the distribution site, collect all the white copies and sort the copies with the pink copies. Call the names on the white copies and give the nets.

Some of the following control methods were used.

- Everyone who presented with a white copy was given LLINs at the distribution site with LLINs only given to the owner of the house or a member of the house whose name is written on the back of the survey form.
- Those people who lost the white receipts were left to the end of each distribution, with nets only being issued if the name of the person collecting the nets was on the back of the pink copies.
- For those families who were absent at the time of distribution, their names were written in a form – MOSQUITO NETS HELD IN TRUST BY VILLAGE CHIEFS FORM and the nets allocated to missing families were given to chiefs or any person entrusted by the community with the forms for these families to collect their LLINs later.
- Householders are now being asked to make a thumb print as proof of delivery of nets to a household. The Global Fund had formally asked that householders should sign for delivery of nets. This was considered problematic as many householders are illiterate and even where householders can write, this process takes a long time in what is often a very chaotic and charged environment where speed is of the essence.

It should also be noted, that due to the very remote locations found in some LLGs of the province, surveys and distributions took place at more or less the same time in some places. This is particularly true for mountainous villages or small islands which might take several hours or days to reach. In these instances, estimations based on the 2000 Census data and local knowledge to pre-allocate nets to these areas. Teams were then dispatched to these areas with nets. On arrival in these remote places, surveys took place and were immediately followed by a distribution based on the survey results.

### ***Other details***

In the case of Milne Bay Province, all LLINs were delivered to Lae by ship from Vietnam (via Singapore) where they were custom cleared. The first batch of 71,000 which came from the Global Fund were sent to Alotau in November 2016. These nets were stored in Alotau from where they were sent to Murua in January via a boat (Sera Lee) hired by the Provincial Health Authorities. These nets were also sent to Samarai by the MV Tiare which was hired by RAM. The second set of nets supplied by the Against Malaria Foundation arrived in Lae in January (10 January) and then immediately sent to Alotau after being cleared. These nets arrived in Alotau 14 February in time for the return trip of MV Tiare so these nets could be sent out to all other areas. It should also be mentioned that Geopacific Resources Limited who control Woodlark kindly shipped Zoom for boat fuel from Lae for operations in Woodlark as the MV Sera Lee who took the nets could not also carry Zoom at the same time as passengers. For all other areas in Alotau district, nets were taken to health centres and villages by vehicles.

### **Results**

From an estimated projected population for 2017 in Milne Bay Province of 320,534 (114,886 Alotau, 65,115 Samarai Murua, 77,365 Kiriwina Goodenough and 63,168 Esa'ala), the project recorded a population of 324,946 534 (116,123 Alotau, 64,993 Samarai Murua, 78,587 Kiriwina Goodenough and 65,243 Esa'ala) people living in the province. To this population were distributed 158,278 (56,517 Alotau, 32,468 Samarai Murua, 37,817 Kiriwina Goodenough and 31,476 Esa'ala) giving an overall ratio of 48.5 LLINs distributed to every 100 people.

Table Two shows a summary of the population and nets distributed by district during this distribution and Table Three shows distribution by LLGs. Table Two also shows the population surveyed in 2013 and from this it can be calculated the annual growth rate of each and LLG. Based on the growth rates recorded, growth from 2013 to 2016 was more than expected so the present growth rate needs to be revised.

**TABLE TWO**  
**Nets Distributed At District Level In Milne Bay**

District	Population Surveyed 2013	Population Surveyed 2016	House Holds Surveyed	Nets Issued	Growth Rate Against 2000 Census	Growth Rate Against 2013 Survey	Growth Rate 2013 Against 2010 Survey	Nets Per 100 People
Alotau	104,081	116,123	23,218	56,517	2.80	3.72	3.72	48.7
Samarai-Murua	58,991	64,993	12,996	32,468	2.59	3.28	3.99	50.0
Kiriwina-Goodenough	70,089	78,587	16,077	37,817	2.87	3.89	0.39	48.1
Esa'ala	57,227	65,243	13,080	31,476	2.69	4.47	2.10	48.2
<b>Total</b>	<b>290,388</b>	<b>324,946</b>	<b>65,371</b>	<b>158,278</b>	<b>2.75</b>	<b>3.82</b>	<b>2.61</b>	<b>48.7</b>

**TABLE THREE**  
**Nets Distributed At LLG Level In Milne Bay**

LLG	District	Population Surveyed 2013	Population Surveyed 2016	House Holds Surveyed	Nets Issued	Growth Rate Against 2013 Survey	Nets Per 100 People
Makamaka Rural	Alotau	10,470	11,832	2,968	5,780	4.16	48.85
Daga Rural	Alotau	7,384	8,210	1,391	3,944	3.60	48.04
Weraura Rural	Alotau	15,585	16,573	3,440	8,346	2.07	50.36
Maramatana Rural	Alotau	11,063	12,244	2,422	5,859	3.44	47.85
Huhu Rural	Alotau	35,914	40,658	8,260	19,654	4.22	48.34
Suau Rural	Alotau	12,861	14,495	2,755	7,157	4.07	49.38
Alotau Urban	Alotau	10,804	12,111	1,982	5,777	3.88	47.70
Bwanabwana Rural	Samurai Murua	12,518	13,238	2,638	6,870	1.88	51.90
Louisiade Rural	Samurai Murua	23,175	26,546	5,507	13,008	4.63	49.00
Yaleyemba Rural	Samurai Murua	13,022	14,804	2,739	7,319	4.37	49.44
Murua Rural	Samurai Murua	10,276	10,405	2,112	5,271	0.42	50.66
Kiriwina Rural	Kiriwina Goodenough	40,490	44,430	9,671	21,911	3.14	49.32
Goodenough Rural	Kiriwina Goodenough	29,599	34,157	6,406	15,906	4.89	46.57
West Ferguson Rural	Esa'ala	15,306	17,290	3,522	8,238	4.15	47.65
Dobu Rural	Esa'ala	25,055	28,269	5,655	13,841	4.11	48.96
Duau Rural	Esa'ala	16,866	19,684	3,903	9,397	5.29	47.74
<b>Total</b>		<b>290,388</b>	<b>324,946</b>	<b>65,371</b>	<b>158,278</b>	<b>3.82</b>	<b>48.71</b>

Table Three shows that in some LLGs such as Goodenough Rural that population growth rates from 2013 have been very high where as in other areas such as Murua and Bwanabwana Rural growth rates have been lower than expected. This perhaps represents a population drift within the province.

A further 1,349 LLINs were donated to health centres as nets were surplus to requirement and in most cases could not be easily returned to a central location. These nets would be used by pregnant mothers and for hospital beds where needed. The distribution on these nets can be seen in Table Four.

**TABLE FOUR**  
**Nets Donated To Health Centres**

District	LLG	HC	Donated
Alotau	Weraura Rural	Dogura HC	35
Alotau	Weraura Rural	Sirisiri2	10
Samarai Murua	Murua Rural	Guasopa HC	520
Kiriwina Goodenough	Kiriwina Rural	Omorakana HC	147
Kiriwina Goodenough	Kiriwina Rural	Lousia HC	175
Kiriwina Goodenough	Kiriwina Rural	Kitava HC	54
Kiriwina Goodenough	Goodenough Rural	Watuluma HC	100
Kiriwina Goodenough	Goodenough Rural	Bolubolu HC	100
Esa'ala	West Furguson Rural	Mapex HC	25
Esa'ala	West Furguson Rural	Kalox HC	75
Esa'ala	Dobu Rural	Salamo HC	49
Esa'ala	Dobu Rural	Basima HC	24
Total			<b>1,349</b>

Referring to Table Five it can be seen that the overall cost of the programme was K457,987.91 Kina resulting in a cost of about 2.89 Kina or US\$0.92 per net delivered which was about 13% under the anticipated overall budget. All budget lines were generally lower than expected.

**TABLE FIVE**  
**Cost Of Programme In Milne Bay**

Budget Line	Budget	Actual	Variances	% Variance
Human Resources	K164,897.00	K154,090.00	K10,807.00	93.4
Training Cost	K13,640.00	K13,710.00	-K70.00	100.5
Fuel Cost	K50,322.00	K56,815.29	-K6,493.29	112.9
Car Hire Cost	K189,000.00	K273,911.64	-K84,911.64	144.9
Boat Hire Cost	K45,600.00	K49,170.00	-K3,570.00	107.8
Stationeries/Supplies	K3,000.00	K7,150.38	-K4,150.38	238.3
5% Contingency	K23,322.95	K12,418.93	K10,904.02	53.2
Total	<b>K489,781.95</b>	<b>K567,266.24</b>	<b>-K77,484.29</b>	<b>115.8</b>

The project also looked at radio or cell telephone coverage in the different parts of Milne Bay. Referring to Table Six, the data suggests that coverage of both cell networks and radio is generally poor in Milne Bay particularly in places like Goodenough. This situation does not allow for easy dissemination of health or other types of message to the rural villages of the province particularly in the remote areas of the province.

The support given by the provincial health authorities, the various health centres involved in the project and all community members was tremendous. Partners included the Provincial and Regional Government Health Services and church health services, particularly the Catholic and United Church Health Services. Many others assisted including teachers and head masters, village councillors, village leaders, Village Health Volunteers (VHV), and many others too many to mention who helped the programme in individual or collective ways.

Feedback from partners and communities suggest they were happy with the methodology used as the process appeared transparent to all concerned. However, as always, there were always

a few families who complained that they did not receive enough nets but for the most part it is believed that this was a result of families not fully understanding the allocation system used.

Overall therefore it can be said that the programme in Milne Bay has been successful.

**TABLE SIX**  
**Cell and Radio Coverage In Milne Bay**

District	Villages	Digicel	Bmobile	Citifon	Villages With Radio Network
Alotau	302	180	30	1	189
Samarai-Murua	245	201	0	0	84
Kiriwina-Goodenough	159	91	0	0	16
Esa'ala	95	81	0	0	51
<b>Total</b>	<b>801</b>	<b>553</b>	<b>30</b>	<b>1</b>	<b>340</b>



**Fig.5 – Distributions In Bouluboulu (Left) and Loisua (Right)**

**Observations**

- Fig.6 shows the decrease of malaria from 2007 to 2015 in all provinces, Fig. 7 shows the actual malaria incidence in Milne Bay compared with other provinces and Fig.8 shows annual malaria trends from 2012 to 2016. In Milne Bay it can be seen from Fig.6 that malaria decreased from 2007 to 2015 by only 18% which is one of the lowest reductions of malaria in the coastal areas of country. This is also reflected in Fig.7 which shows that the incidence of malaria in Milne Bay is the highest in PNG in 2015. Fig. 8 and Fig.9 shows that the incidence of malaria in Milne Bay has been continually high though falling after Provincial LLIN Distributions.
- From Fig. 10 it can also be calculated that 99.3% of the population of Milne Bay live below 1200m altitude where malaria can be considered highly endemic and stable with about 94.1% living below 400m. Only 0.7% of people live above 1200m with 0.15% actually living above 2000m in the area around Agaun Health Centre in Alotau District.
- Overall this data shows that malaria continues to be a big problem in Milne Bay but does clearly show that after substantial distributions such as in 2010 and 2013 malaria dropped considerably. However, of concern in that malaria in 2010 continued to reduce for two years before coming up again. However, in the 2013 distribution, malaria was only reduced for one year before starting to climb again in 2015. It is not clear why this is the case though may be linked to drug shortages which have been a problem in many parts of PNG in 2015

and 2016. All in all, Milne Bay continues to be one of the worst place for malaria in PNG and in this respect, people need to be encouraged to use their nets and seek early treatment.

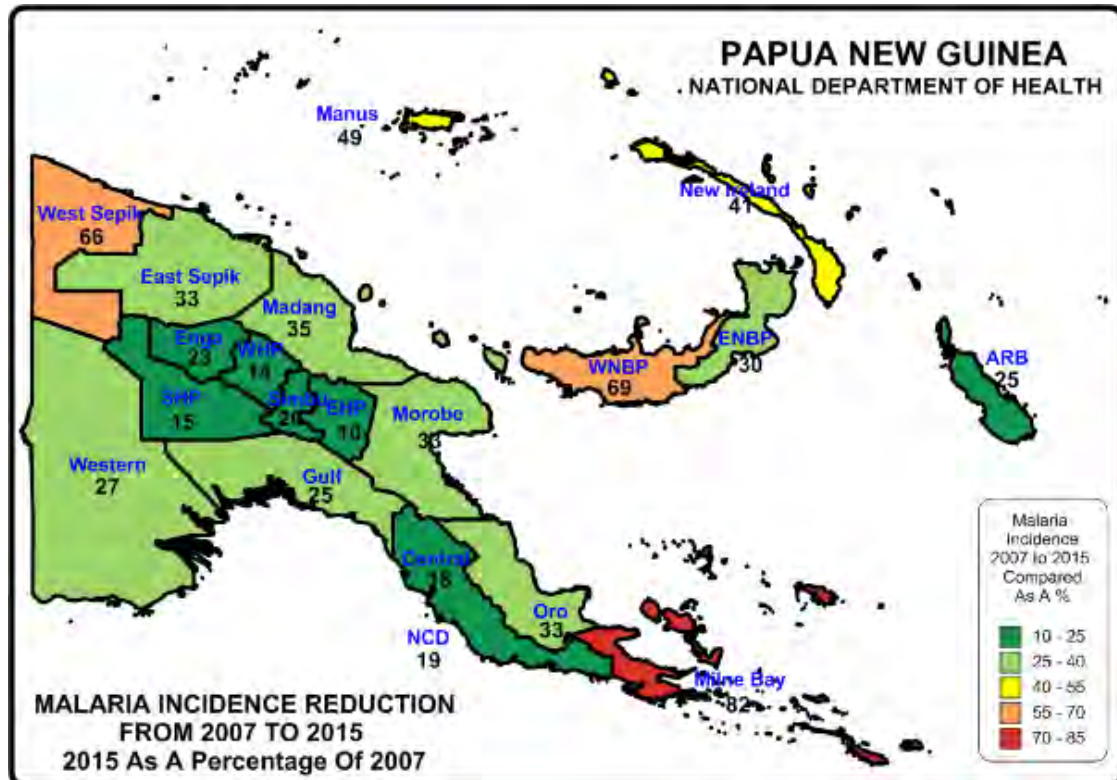


Fig.6 – Relative Reduction Of Malaria In Provinces Of PNG

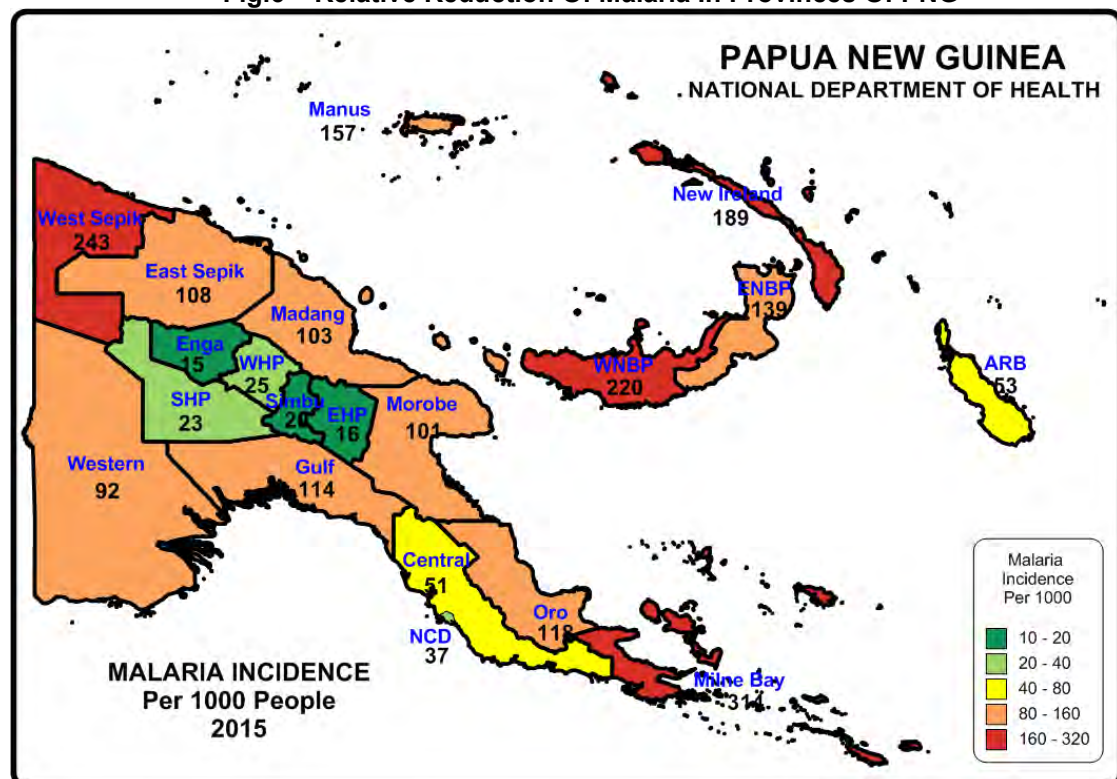


Fig.7 – Reported Malaria Incidence In 2015

- The major challenge to the distribution of nets in Milne Bay as in other provinces in previous years has been the weather and particularly the poor infrastructure and many islands of Milne Bay.
- Milne Bay represents also the second province in which the new survey methodologies are being carried out. While some initial problems have been experienced with verification of survey volunteers, in general, it can be said that the new process has been welcomed by RAM officers and villagers alike.
- The very positive aspect of Milne Bay from a RAM perspective was the incredibly good support received by the provincial and health centre staff who assisted to make the project work efficiently and quickly. In terms of budget, the lessons learnt in other provinces allowed a much closer monitoring of the budget in Milne Bay through the decentralising of funding and net allocation. In this respect, each LLG of Milne Bay was treated as a separate financial unit which gave much more accountability. The very positive results of this is that the programme generally worked within budget and only a few nets remained unaccounted for at the end of the programme.
- However, despite all these difficulties, overall the project received positive comments from the provincial health office including those who had been involved in previous distributions in the province. It was generally felt that the system being advocated by RAM is transparent and fair. Though as always, some families did not feel they received as many nets as they thought they deserved. However, overall, it is felt that the programme managed to reach practically every household in the province except those mentioned above.

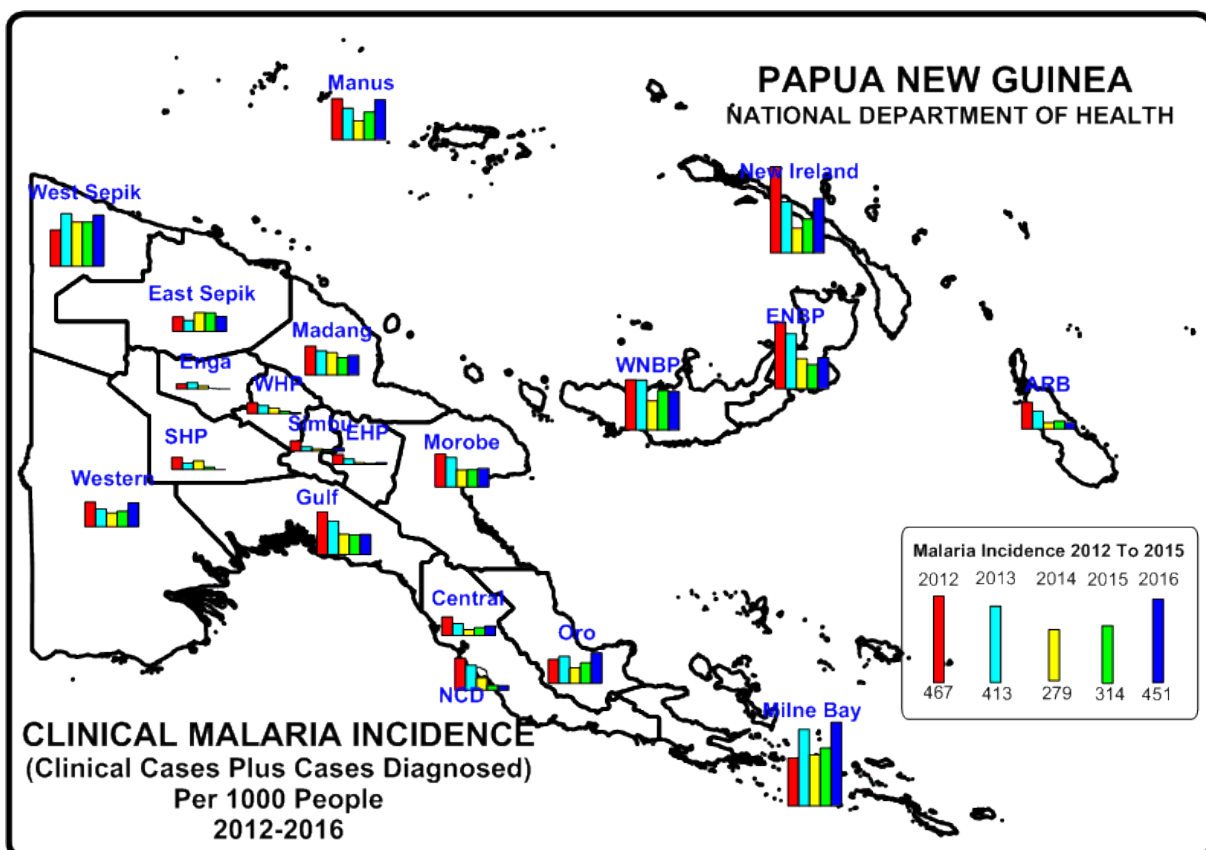


Fig. 8- Reported Malaria Incidence In PNG From 2012 To 2016

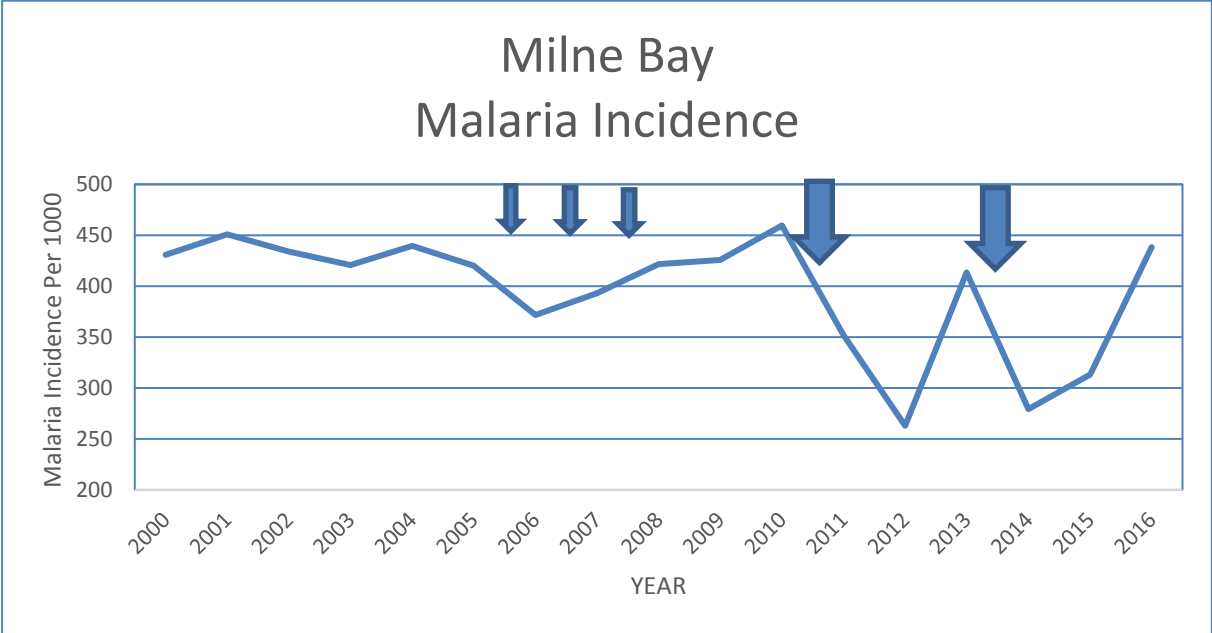
## Conclusions

Overall it can be said that the project was a success both in terms of results and joint coordination of the project by RAM field staff members together with district health staff and Catholic and United Church Health Services who have a presence in the province. Through

this collaboration, the data suggests that all villages and practically all families in those villages received nets.

The major achievement of the programme was also demonstrating that the new verification process introduced by RAM was practical and was generally accepted by both health staff, communities and volunteers as the survey system is now more transparent. One result of this is that RAM officers generally received far less complaints at the time of distribution than they have done in the past.

As with other provinces in the country where RAM has operated in over the last seven years, the methodologies used appeared practical and were openly welcomed by both villagers and implementers, particularly the practice of hanging up the list of names in the middle of the village following a survey: this allowed communities to feel that they were part of a transparent process. This is not to say that perhaps some extra people managed to slip into the books, but in general, it was felt that the system was fair and included practically everyone concerned. The use of the master lists also ensured that all villages were reached and accounted for.



**Fig. 9 – Malaria Incidence Versus Distribution Of Nets (Blue Arrows Are Years Of Distribution Though Distributions Marked For 2006, 2007 and 2008 Cover Esa’ala and Kiriwina Goodenough, Samarai Murua and Alotau in 2006, 2007 and 2008 Respectively)**

The review of the data prior to the distribution was also important. This ensured that all villages and families received the correct numbers of nets. The Census Lists also from 2000 are also very important to ensure that survey teams reach all villages: without the complete list of villages, it would be very difficult to make a detailed report.

The greatest complaint still received by communities was the number of nets they received. Even though the team explain the logic of how the allocation of nets is calculated, some families were expecting one net per person, others expected it to be based on a fixed allocation based on the number of people in the family, and yet others thought they would be given nets based on the number of nets they stated they already had. This highlights that a better system of explaining the allocation system needs to be developed. In general, unlike some previous districts covered by RAM, DHTs of Milne Bay assisted in the allocation of the nets which meant they were in a better position to explain the distribution system on the ground. Nevertheless,

despite all the difficulties involved, it would appear that the vast majority of community members accepted the outcome and there were no real problems encountered.

It is hoped that most of general problems encountered in the field are now familiar to RAM teams and as the teams move into other provinces, RAM officers become facilitators rather than implementers. This allows for much of the work to be carried out by District Health Teams. This will allow the survey and distribution of nets to occur much quicker even though it does mean that RAM officers may not have the same oversight as when they are more intimately involved with the project in carrying out the activities themselves. However, getting a balance of close supervision by RAM officers of activities and allowing activities to be carried out by others will be an ongoing challenge in the future. One process slows down the distribution time while the other speeds it up finding the right balance will be a challenge as this project continues.



Fig.10 – Distributions In Daio and Hagita

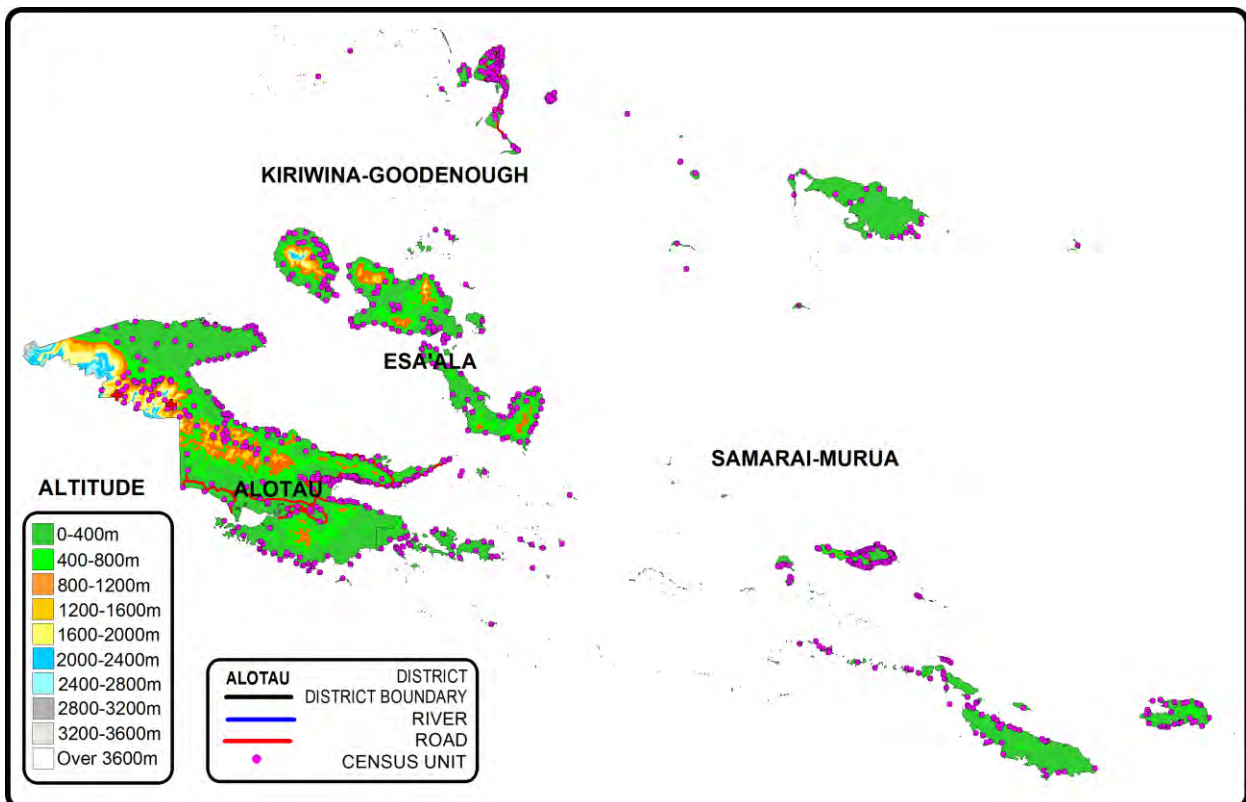


Fig.11 - Altitude Zones Of Milne Bay

## **Partners Involved In The Distribution**

Partners:

1. Provincial and Regional Health Officers
2. Catholic and United Church Health Services.
3. Health facility health staff.
4. Teachers and Head Masters
5. Village Councillors/Peace Officers/ Chiefs/Youths
6. Village Health Volunteers (VHV)
7. All the Communities in the district
8. Crew of MV Tiare from Milne Bay
9. Geopacific Resources Limited (Wooklark Island)

## **Acknowledgements**

Rotarians Against Malaria would particularly like to thank Mr. Billy Naidi (Chief Executive Officer) and Dr Jacob Morewai (Director of Public Health) and their team, especially Luke Aluluku (Provincial Malaria Supervisor), Wellington Min (Deputy Director Public Health), Dawa Norris (Environmental Health Officer) Mr Ninipe (Provincial HEO) and Michael Tauvukun (Provincial HEO) for their excellent support and help throughout the distribution in Milne Bay. Without their assistance, this programme would not have been possible.

We would also like to thank all the health staff in various health centres who assisted in the programme. Below is a list of people specifically mentioned by RAM officers but there are a large number of other health staff and team leaders too many to mention who assisted with their time and help throughout the survey and distribution period.

To the church partners, RAM would like to sincerely thank the Catholic and United Church Health Services for supporting RAM through its health services in their respective health centres.

RAM would also like to make a special thanks to those health staff who allowed their boats to be used in the programme. This greatly reduced cost to the programme whose savings can be passed to other parts of the programme throughout the country.

RAM would like to thank the owners and crew of the MV Tiare for delivering all the nets to the health centres. Their work was done in an efficient, timely and friendly manner.

We would also like to thank the Provincial Health Authority for carrying nets to Woodlark Island on one of their routine supervisory trips around the province. In addition to this, we would also like to thank the staff of Geopacific Resources who agreed to carry boat fuel (ZOOM) free of charge to Woodlark so that operations could be carried out there without problems. Also many thanks to Geopacific Resources who carried a RAM staff member free of charge to and from Port Moresby to Woorlark on one of their infrequent air charters to the island from Port Moresby. Without this assistance, it would have been difficult for RAM staff to reach Woodlark Island.

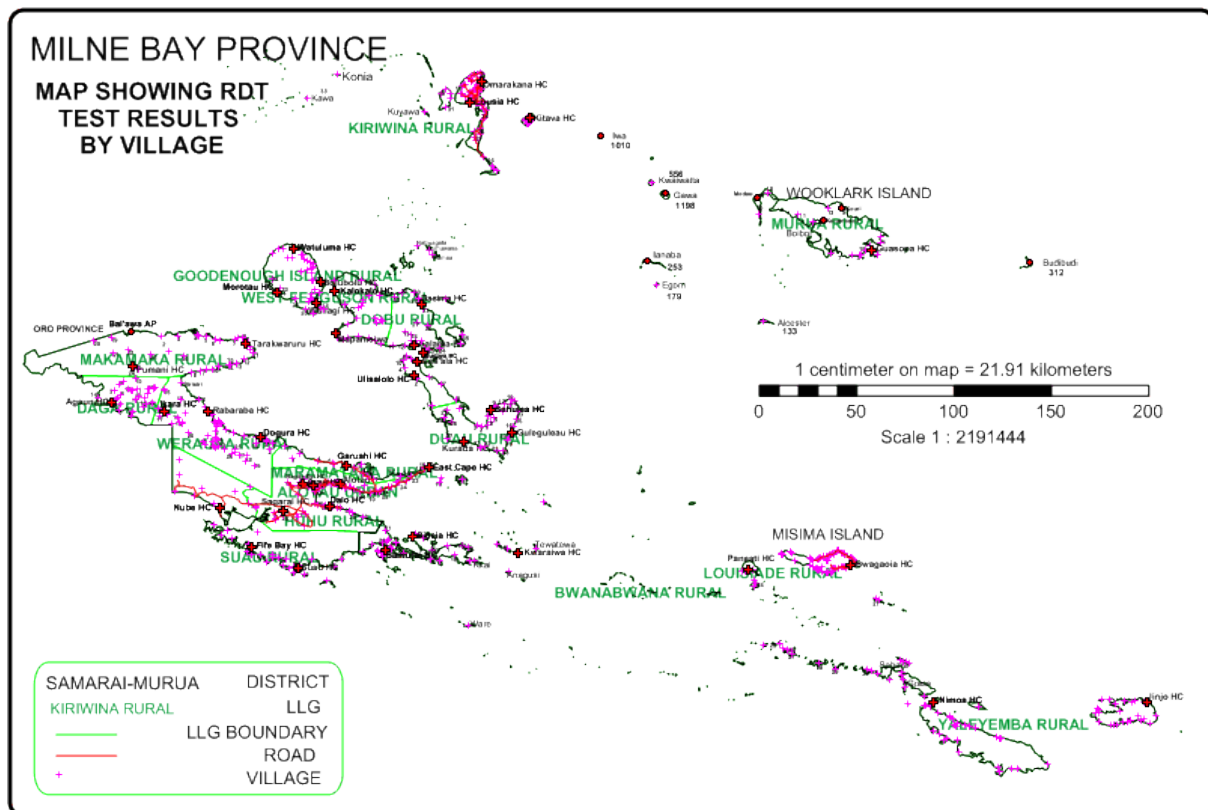
RAM would also like to thank all the community members who welcomed RAM officers and health staff into their villages and assisted in making the programme work.

### **ACKNOWLEDGEMENT LIST – MILNE BAY PROVINCE 2017**

<b>NAME</b>	<b>OCCUPATION</b>	<b>INSTITUTE</b>
Sr. Lilah Giaruva	Sr. In Charge	Ikara Health Centre
Mr. Carson Justin	Community Health Worker	Rabaraba Health Centre
Nathan Rau	Community Health Worker	Rabaraba Health Centre
Daloi Tohian	Community Health Worker	Ikara Health Centre
Noel Kulumb	Community Health Worker	Agaun Health Centre
Rebecca Igari	Sr. In Charge	Agaun Health Centre
Millie Kulumb	Nursing Officer	Agaun Health Centre
Mr. Batys	Officer In Charge	Moratona Health Centre
Sr. Cindy Felma	Officer In Charge	Wailagi Health Centre
Mrs Susan Nako	Health Extension Officer	Gurney Health Centre

Mrs Violet Yalso	Officer In Charge	Gurney Health Centre
Mrs Micheline Romulars	Officer In Charge	Bubuleta Health Centre
Serah Donny	Sr. In Charge	Budoya Health Centre
James Diden	Community Health Worker	Budoya Health Centre
Meriba Dele	Community Health Worker	Salamo Health Centre
Mr. Ridley Muasiga	District Health Manager	Kiriwina Health Centre
Mr. Steven Kas	District Health Officer	Kiriwina Health Centre
Mrs Messie Muasiga	Health Extension Officer	Kiriwina Health Centre
Mr. Alex Kimotau	Community Health Worker	Losuia Health Centre
Mr. Alsby Tabolani	Disease Control Officer	Pumani Health Centre
James Giza	Aid post orderlist	Pumani Health Centre
Mr. Karol Sylvester	Officer In charge	Pumani Health Centre
Mr. Lackford Joel	Community Health Worker	Pumani Health Centre
Genevieve Lisenia	Community Health worker	Daio Health Centre
Meisy Kaliovakoyo	Sr. In Charge	Daio Health Centre
Damien Tolawaga	Health Extension Officer	Bolubolu Health Centre
Kofe Aivaya	Community Health Worker	Bolubolu Health Centre
Sr. Rozalo	Sr. In Charge	Watuluma Health Centre
Mathew Vanibe	Lab. Technician	Watuluma Health Centre
Gerard	Community Health Worker	Watuluma Health centre
Dawaleia Norris	Environmental Officer	Provincial Health Office
Sr. Catherine Pinesi	Sr. In Charge	Nube Health Centre
Sr. Thelma	Officer In charge	Sagarai Health Centre
Mrs Dawa Norris	Vector Control Officer	East Cape Health Centre
Sr. Marcia Joe	Officer In Charge	East Cape Health Centre
Mr. Gabriel Morris	Nursing officer	East Cape Health Centre
Sr. Vanessa Gando	Nursing Officer	East Cape Health Centre
Ms. Olive Isaka	Community Health Worker	East Cape Health Centre
Mrs Betty Seta	Community Health Worker	East Cape Health Centre
Mrs. Marie Sipiori	Community Health Worker	East Cape Health Centre
Newton Orowari	Coordinator -VHCP	Dogura Health Centre
David Kirete	Officer in Charge	Dogura Health Centre
Leo Rere	Care Health Officer	Dogura Health Centre

### ANNEX ONE - Map Of MILNE BAY Showing Census Points Of 2000 Census



**OTHER PHOTOGRAPHS**



Unloading The Boat In Tol (Left) and Training In Tapipipi (Right)



Walking In Agaun (Right) and Unloading The Boat In Bolubolu



Trekking In Pumani (Right) and Nets Transported By Wheelbarrow (Right)

OTHER PICTURES



## ANNEX TWO

MILNE BAY PROVINCE  
LLIN DISTRIBUTION SUMMARY SHEET

LLG	WARD	Villages	Estimated 2017 Data Based On 2000 Census	Estimated 2017 Data Based On 2013 Data	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Villages	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment		
<b>MILNE BAY</b>			<b>320,534</b>	<b>320,534</b>		<b>296,677</b>	<b>59,716</b>	<b>144,437</b>			<b>762</b>	<b>518</b>	<b>30</b>	<b>1</b>	<b>6,377</b>	<b>320</b>		
<b>ALOTAU</b>			<b>113,710</b>	<b>114,886</b>		<b>116,123</b>	<b>23,218</b>	<b>56,517</b>			<b>302</b>	<b>180</b>	<b>30</b>	<b>1</b>	<b>4,756</b>	<b>189</b>		
<b>MAKAMAKA RURAL</b>			<b>11,884</b>	<b>11,557</b>		<b>11,832</b>	<b>2,968</b>	<b>5780</b>			<b>37</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>25</b>		
1	BAI 'AWA		308	523		524	85	260			1	1	0	0	0			
		Ba'awa	308	523	Pumani HC	524	85	260	18.03.17	1	1	0	0	0			Trek	
2	MIDINO		594	567		561	97	259			2	0	0	0	0			
		Midino	452	466	Tarakwaruru HC	435	70	196	22.03.17	1	0	0	0	0			Boat \ 3 hrs.	
		Wakwapu	142	102	Tarakwaruru HC	126	27	63	22.03.17	1	0	0	0	0			Boat/Trek 2hrs	
3	IAIRAME		283	317		338	50	164			1	0	0	0	0			
		Iairame	283	317	Tarakwaruru HC	338	50	164	22.03.17	1	0	0	0	0			Boat\ 1 hr.45 mins.	
4	PEM		436	476		461	100	231			2	0	0	0	0			
		Pem	248	258	Tarakwaruru HC	227	50	114	23.03.17	1	0	0	0	0			RMB Boat	
		Tototo	187	217	Tarakwaruru HC	234	50	117	23.03.17	1	0	0	0	0			RMB Boat	
5	MAGABARA		337	310		328	49	154			1	0	0	0	0			
		Magabara	337	310	Tarakwaruru HC	328	49	154	23.03.17	1	0	0	0	0			RMB Boat	
6	TAPIO		375	333		370	70	182			2	0	0	0	0			
		Tapio	197	174	Tarakwaruru HC	84	20	41	23.03.17	1	0	0	0	0			RMB Boat	
		Woruka	178	159	Tarakwaruru HC	286	50	141	23.03.17	1	0	0	0	0			RMB/Karai Boat	
7	MUKAWA		877	758		759	155	373			3	0	0	0	0			
		Mukawa	326	287	Tarakwaruru HC	252	50	125	24.03.17	1	0	0	0	0			RMB/Karai Boat	
		Maikera Bay	519	286	Tarakwaruru HC	253	50	123	24.03.17	1	0	0	0	0			RMB/Karai Boat	
		Mukawa Mission	32	185	Tarakwaruru HC	254	55	125	24.03.17	1	0	0	0	0			RMB/Karai Boat	
8	BOGABOGA		547	544		557	103	268			2	0	0	0	0			
		Bogaboga	317	318	Tarakwaruru HC	476	91	230	25.03.17	1	0	0	0	0			RMB Boat	
		Rausewa	230	226	Tarakwaruru HC	81	12	38	25.03.17	1	0	0	0	0			RMB Boat	
9	GINADA		312	311		300	71	152			1	0	0	0	0			
		Ginada	312	311	Tarakwaruru HC	300	71	152	25.03.17	1	0	0	0	0			RMB Boat	
10	IRIKABA		523	546		499	111	241			3	0	0	0	0			
		Irikaba	119	73	Tarakwaruru HC	61	16	30	25.03.17	1	0	0	0	0			RMB Boat	
		Regiregi	271	188	Tarakwaruru HC	192	46	94	25.03.17	1	0	0	0	0			RMB Boat	
		Tarakwaruru Mission Station	133	286	Tarakwaruru HC	246	49	117	27.03.17	1	0	0	0	0			RMB/Karai Boat	
11	WABUBU		320	360		387	79	194			1	0	0	0	0			
		Wabubu	320	360	Tarakwaruru HC	387	79	194	20.03.17	1	0	0	0	0			RMB Boat	
12	DABORA		347	316		315	75	149			2	0	0	0	0			
		Dabora	180	157	Tarakwaruru HC	148	38	70	21.03.17	1	0	0	0	0			RMB Boat	
		Kirikirikona	168	159	Tarakwaruru HC	167	37	79	27.03.17	1	0	0	0	0			RMB Boat	
13	BANAPA		363	337		378	69	184			1	0	0	0	0			
		Banapa	363	337	Tarakwaruru HC	378	69	184	21.03.17	1	0	0	0	0			RMB Boat	
14	MENAPI		629	527		501	112	244			1	0	0	0	0			
		Menapi	629	527	Tarakwaruru HC	501	112	244	23.03.17	1	0	0	0	0			RMB Boat	
15	PORA		183	177		176	32	87			1	0	0	0	0			
		Pora	183	177	Tarakwaruru HC	176	32	87	20.03.17	1	0	0	0	0			RMB Boat	
16	ALBUARO		437	454		441	78	223			2	1	0	0	0			
		Abuoaro	192	216	Tarakwaruru HC	229	43	116	23.03.17	1	0	0	0	0			RMB Boat	
		Omora	245	237	Tarakwaruru HC	212	35	107	22.03.17	1	1	0	0	0			RMB Boat	
17	GIWA		917	811		921	871	453			2	1	0	0	2			
		Giwa	448	504	Tarakwaruru HC	564	115	273	22.03.17	1	1	0	0	2			RMB Boat	
		Keibogimogimu	469	307	Tarakwaruru HC	357	756	180	24.03.17	1	0	0	0	0			RMB Boat	
18	KOYABAGIRA		754	687		735	147	335			1	1	0	0	1			
		Koiyabagira	754	687	Tarakwaruru HC	735	147	335	24.03.17	1	1	0	0	1			RMB Boat/ 2 hrs 45 mins	
19	KWAGILA		186	228		223	43	112			1	1	0	0	0			
		Kwagila	186	228	Pumani HC	223	43	112	19.03.17	1	1	0	0	0			3 hrs trek from Baiawa	
20	BINIGUNI		705	574		508	104	255			1	1	0	0	0			
		Biniguni	705	574	Pumani HC	508	104	255	21.03.17	1	1	0	0	0			6 hour trek from Bai'awa	
21	WAPON		300	518		413	79	207			1	1	0	0	0			
		Wapon	300	518	Pumani HC	413	79	207	19.03.17	1	1	0	0	0			5 hrs trek from Baiawa	
22	BOROVIA		271	252		280	43	137			1	0	0	0	0			
		Borovia	271	252	Pumani HC	280	43	137	21.03.17	1	0	0	0	0			3hrs trek from Baiawa	
23	PUMANI		838	731		756	160	371			1	1	0	0	0			
		Pumani	838	731	Pumani HC	756	160	371	21.03.17	1	1	0	0	0			6hrs trek from Baiawa	
24	BEMBERI		168	147		193	39	98			1	1	0	0	0			
		Bemberi	168	147	Pumani HC	193	39	98	21.03.17	1	1	0	0	0			8hrs trek from Baiawa	
25	GURUKWAIA		547	414		573	89	279			1	1	0	0	0			
		Gurukwaia	547	414	Pumani HC	573	89	279	21.03.17	1	1	0	0	0			6hrs trek from Baiawa	
26	MAPOUNA		328	340		335	57	168			1	0	0	0	0			
		Mapouna	328	340	Pumani HC	335	57	168	28.03.17	1	0	0	0	0			Better done from Rabaraba	
				0							0							
<b>DAGA RURAL</b>			<b>9,638</b>	<b>8,151</b>		<b>8,210</b>	<b>1,391</b>	<b>3,944</b>			<b>31</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>231</b>	<b>19</b>		
1	GAUNANI		526	458		346	65	166			1	1	0	0	26		2 day walk from Sirisiri	
		Gaunani	526	458	Algaun HC	346	65	166	01.04.17	1	1	0	0	26	IC MILNE B		Trek	
2	BIRAT		579	557		533	63	256			1	0	0	0	0			
		Birat	579	557	Algaun HC	533	63	256	02.04.17	1	0	0	0	0	0	0	0	IC MILNE B Trek
3	BONENAU		1,013	776		562	124	268			1	0	0	0	37			
		Bonenau	1,013	776	Algaun HC	562	124	268	02.04.17	1	0	0	0	0	37	IC MILNE B	Trek	
4	PARAM		436	382		362	65	171			2	0	0	0	0			
		Param	140	302	Algaun HC	167	28	79	31.03.17	1	0	0	0	0	0		Trek	
		Gigat	296	79	Algaun HC	195	37	92	31.03.17	1	0	0	0	0	0		Trek	
5	KAKAIA		858	723		681	120	326			1	1	0	0	48			
		Kakaia	858	723	Algaun HC	681	120	326	01.04.17	1	1	0	0	48	IC MILNE B		Trek	
6	PAYAWA		1,066	684		762	128	366			3	2	0	0	49			
		Payawa	794	414	Algaun HC	531	91	255	01.04.17	1	1	0	0	23	IC MILNE B		Trek	
		Agaun Gov. Station	189	148	Algaun HC	113	22	54	01.04.17	1	1	0	0	22	IC MILNE B		Trek	

LLG	WARD	Villages	Estimated 2017 Data Based On 2000 Census	Estimated 2017 Data Based On 2013 Data	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Villages	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
		Dogon	84	123	Algaun HC	118	15	57	02.04.17	1	0	0	0	4	C MILNE B	Trek
7	ILAKAE - MODENI		367	386		380	66	182		1	1	0	0	40		
		Ilakae-Modeni	367	386	Algaun HC	380	66	182	01.04.17	1	1	0	0	40	C MILNE B	Trek
8	UNI		579	549		568	70	266		1	1	0	0	0		
		Uni	579	549	Algaun HC	568	70	266	02.04.17	1	1	0	0	0	C MILNE B	Trek
9	BIBITAN		390	310		565	92	272		2	0	0	0	30		
		Urait	230	192	Algaun HC	270	43	130	02.04.17	1	0	0	0	10	C MILNE B	Trek
		Bibitan	160	118	Algaun HC	295	49	142	02.04.17	1	0	0	0	20	C MILNE B	Trek
10	DANAWAN		778	688		756	133	386		3	0	0	0	0		
		Danawan	302	288	Sirisiri	375	58	177	06.04.17	1	0	0	0	0	C MILNE B	Trek
		Aragip	221	0						0						No Village Found
		Igupon	235	287	Sirisiri	252	50	139	07.04.17	1	0	0	0	0	C MILNE B	Trek
		Aragip Com. School	21	113	Sirisiri	129	25	70	07.04.17	1	0	0	0	0	C MILNE B	Trek
11	BIMAN		233	400		350	64	174		1	0	0	0	0		
		Biman	233	400	Sirisiri	350	64	174	04.04.17	1	0	0	0	0	C MILNE B	Trek
12	GWAGUT		302	132		189	28	79		1	0	0	0	0		
		Gwagut	302	132	Sirisiri	189	28	79	06.04.17	1	0	0	0	0	C MILNE B	Trek
13	GWAEDE		579	523		479	80	216		2	0	0	0	0		
		Gwadede	579	523	Sirisiri	188	33	103	07.04.17	1	0	0	0	0	C MILNE B	Trek
		Sesenaro		NEW	Sirisiri	291	47	113	07.04.17	1		0	0	0	C MILNE B	NEW VILLAGE
14	EVIUAWA		468	262		398	63	192		1	0	0	0	1		
		Eviuwa	468	262	Algaun HC	398	63	192	02.04.17	1	0	0	0	1	C MILNE B	6 hrs walk from Algaun
15	GWAIRA		160	137		127	25	69		1	0	0	0	0		
		Gwaira	160	137	Sirisiri	127	25	69	06.04.17	1	0	0	0	0		Trek
16	KANATURU		268	301		302	65	122		4	0	0	0	0		
		Kanaturu	47	86	Sirisiri					1						Included under Iwatara
		Iwatara	107	129	Sirisiri	162	32	50	06.04.17	1	0	0	0	0		Trek
		Gwadagwade	61	57	Sirisiri	53	24	27	22.03.17	1	0	0	0	0		Trek
		Bobopi	53	29	Sirisiri	87	9	45	22.03.17	1	0	0	0	0		Trek
17	GAUWA		334	266		241	34	133		1	0	0	0	0		
		Gauwa	334	266	Sirisiri	241	34	133	06.04.17	1	0	0	0	0		Trek
18	GWIRORO		704	616		609	106	300		4	0	0	0	0		
		Gwiroro	215	177	Sirisiri	190	27	94	27.03.17	1	0	0	0	0		Trek
		Magabura	108	129	Sirisiri	132	24	65	07.04.17	1	0	0	0	0		Trek
		Bonara	168	138	Sirisiri	118	21	56	07.04.17	1	0	0	0	0		Trek
		Tua	213	172	Sirisiri	169	34	85	07.04.17	1	0	0	0	0		Trek
				0						0						
<b>WERAURA RURAL</b>			<b>17,665</b>	<b>17,203</b>		<b>16,573</b>	<b>3,440</b>	<b>8,346</b>		<b>65</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>281</b>	<b>47</b>	
1	DIVARI		398	337		335	106	206		1	1	0	0	15		
		Divari	398	337	Dogura HC	335	106	206	19-20.03.17	1	1	0	0	15	Radio Milne B	Boat/Trek
2	KWABUNAKI		288	264		269	49	121		1	1	0	0	3		
		Kwabunaki	288	264	Dogura HC	269	49	121	23.03.17	1	1	0	0	3	Radio Milne B	Boat/Trek
3	RUMARUMA		678	642		572	139	321		2	2	0	0	9		
		Rumaruma	657	642	Dogura HC	375	89	209	19.03.17	1	1	0	0	5	Radio Milne B	Boat
		Wamira Com. School	21	0	Dogura HC	197	50	112	19.03.17	1	1	0	0	4	Radio Milne B	Boat
4	DAMALADONA		431	427		393	100	232		1	1	0	0	4		
		Damayadona	431	427	Dogura HC	393	100	232	19.03.17	1	1	0	0	4	Radio Milne B	Trek
5	WEDAU		940	837		847	200	454		2	2	0	0	40		
		Wedau	737	635	Dogura HC	427	100	226	20.03.17	1	1	0	0	17	Radio Milne B	Boat/Coastal
		Dogura	203	202	Dogura HC	420	100	228	20.03.17	1	1	0	0	23	Radio Milne B	Boat/Coastal
6	MANUBADA		743	868		600	130	321		2	2	0	0	0		
		Manubada	384	868	Dogura HC	380	80	207	20.03.17	1	1	0	0	0	Radio Milne B	Boat/Coastal
		Diriuna	360	0	Dogura HC	220	50	114	20.03.17	1	1	0	0	0	Radio Milne B	Boat/Coastal
7	VIDIA		778	815		813	165	401		2	2	0	0	14		
		Vidia	422	553	Dogura HC	404	82	206	20.03.17	1	1	0	0	7	Radio Milne B	Boat/Coastal
		Baiwapa	356	262	Dogura HC	409	83	195	20.03.17	1	1	0	0	7	Radio Milne B	Boat/Coastal
8	RADAVA		928	936		874	185	467		5	4	0	0	6		
		Radava	459	437	Dogura HC	410	86	222	20.03.17	1	1	0	0	0	Radio Milne B	Boat/Coastal
		Meitepana	81	66	Dogura HC	198	40	103	20.03.17	1	1	0	0	1	Radio Milne B	Boat/Coastal
		Keiboda	190	251	Dogura HC	179	39	94	20.03.17	1	1	0	0	2	Radio Milne B	Boat/Coastal
		Dagaturu	151	126	Dogura HC	87	20	48	20.03.17	1	1	0	0	3	Radio Milne B	Boat/Coastal
		Boianai Com. School	47	56	Dogura HC					1						Included under Radava
9	GADOA		361	380		362	70	175		4	1	0	0	0		
		Gadoa	148	158	Rabaraba HC	164	29	80	24.03.17	1	1	0	0	0	RMB	Boat/Trek
		Susama	62	93	Rabaraba HC	72	15	35	24.03.17	1	0	0	0	0	RMB	Boat/Trek
		Manisia	58	51	Rabaraba HC	55	10	26	24.03.17	1	0	0	0	0	RMB	Boat/Trek
		Bounima	93	78	Rabaraba HC	71	16	34	24.03.17	1	0	0	0	0	RMB	Boat/Trek
10	WADOBUNA		794	738		638	163	312		4	4	0	0	19		
		Wadobuna	238	216	Rabaraba HC	201	50	98	22.03.17	1	1	0	0	0	RMB	Boat/Coastal
		Masara	119	148	Rabaraba HC	109	30	54	22.03.17	1	1	0	0	6	RMB	Boat/Coastal
		Vurawara	251	243	Rabaraba HC	221	59	108	22.03.17	1	1	0	0	4	RMB	Boat/Coastal
		Waraka	186	131	Rabaraba HC	107	24	52	22.03.17	1	1	0	0	9	RMB	Boat/Coastal
11	NAKARA		1,132	1,028		1,040	218	501		4	4	0	0	36		
		Nakara	212	249	Rabaraba HC	224	50	109	25.03.17	1	1	0	0	26	RMB	Boat/Coastal
		Kivikivivi	312	326	Rabaraba HC	275	65	132	25.03.17	1	1	0	0	2	RMB	Boat/Coastal
		Kaputu	52	83	Rabaraba HC	94	20	44	22.03.17	1	1	0	0	1	RMB	Boat/Coastal
		Rabaraba Govt. Station	556	370	Rabaraba HC	447	83	216	25.03.17	1	1	0	0	7	RMB	Boat/Coastal
12	UGA		335	392		369	99	185		1	1	0	0	11		
		Uga	335	392	Rabaraba HC	369	99	185	23.03.17	1	1	0	0	11	RMB	Boat/Trek
13	AUGWANA		181	167		153	34	75		1	1	0	0	0		
		Augwana	181	167	Rabaraba HC	153	34	75	23.03.17	1	1	0	0	0	RMB	Boat/Trek
14	SIRISIRI		608	774		802	176	348		1	0	0	0	0		
		Sirisiri	608	774	Sirisiri2	802	176	348	25.03.2017	1	0	0	0	0		Boat/Coastal
15	TARAMUGU		303	306		244	48	115		2	0	0	0	0		
		Taramugu	175	180	Sirisiri2	186	38	88	26.03.2017	1	0	0	0	0		4 hours trek from Sirisiri
		Giwa	128	126	Sirisiri2	58	10	27	27.03.2017	1	0	0	0	0		4 hours trek from Sirisiri
16	IKARA		759	787		586	117	284		5	0	0	0	12		
		Boneneipi	282	194	Ikara HC	195	39	94	28.03.17	1	0	0	0	0	RMB	Trek

LLG	WARD	Villages	Estimated 2017 Data Based On 2000 Census	Estimated 2017 Data Based On 2013 Data	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Villages	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
		Ikara	165	134	Ikara HC	162	34	79	28.03.17	1	0	0	0	7	RMB	Trek
		Bauduma	44	149	Ikara HC	51	10	24	29.03.17	1	0	0	0	2	RMB	Trek
		Maiyabu	94	74	Ikara HC	98	17	47	28.03.17	1	0	0	0	3	RMB	Trek
		Onu	174	236	Ikara HC	80	17	40	28.03.17	1	0	0	0	0	RMB	Trek
17	TAUBADI		1,219	957		882	135	414		4	0	0	0	2		
		Meyu		NEW	Ikara HC	240	37	114	29.03.17	1	0	0	0	0	RMB	Trek
		Takuwaribiraga		NEW	Ikara HC	244	38	113	29.03.17	1	0	0	0	2	RMB	Trek
		Bunisi		NEW	Ikara HC	168	25	78	29.03.17	1	0	0	0	0	RMB	Trek
		Taubadi	1,219	957	Ikara HC	230	35	109	29.03.17	1	0	0	0	0	RMB	Trek
18	BIDIESI		489	150		453	87	212		1	0	0	0	44		
		Bidiesi	489	150	Ikara HC	453	87	212	28.03.17	1	0	0	0	44	RMB	Trek
19	AWAWA		626	501		404	76	195		4	0	0	0	66		
		Awawa	81	191	Ikara HC	121	24	59	28.03.17	1	0	0	0	20	RMB	Trek
		Berema	87	171	Ikara HC	105	21	49	30.03.17	1	0	0	0	19	RMB	Trek
		Uruma	128	0	Ikara HC	42	8	25	03.04.17	1	0	0	0	7	RMB	Trek
		Kakarausi	116	0						0						Non Existant
		Omonsu	215	139	Ikara HC	136	23	62	27.03.17	1	0	0	0	20	RMB	Trek
20	DOMBOSAINA		590	647		745	129	356		1	1	0	0	0		
		Dombosaina	590	647	Rabaraba HC	745	129	356	28.03.17	1	1	0	0	0	RMB	Trek
21	WARAWADIDI		526	595		615	109	295		3	3	0	0	0		
		Warawadidi	123	164	Rabaraba HC	135	25	64	26.03.17	1	1	0	0	0	RMB	Trek
		Auweda	204	238	Rabaraba HC	282	48	137	27.03.17	1	1	0	0	0	RMB	Trek
		Udoneba	198	192	Rabaraba HC	198	36	94	25.03.17	1	1	0	0	0	RMB	Trek
22	BOWADI		419	408		596	107	320		3	0	0	0	0		
		Bowadi	254	408	Dogura HC	290	50	164	31.03.17	1	0	0	0	0		Trek
		Siakaka	73	0	Dogura HC	94	13	52	31.03.17	1	0	0	0	0		Trek
		Unanemba	91	0	Dogura HC	212	44	104	24.0.17	1	0	0	0	0		Trek
23	DANOBU		422	408		345	50	203		1	0	0	0	0		
		Danobu	422	408	Dogura HC	345	50	203	31.03.17	1	0	0	0	0		Trek
24	KARAGAUTU		699	795		828	136	378		2	0	0	0	0		
		Karagautu	431	471	Dogura HC	535	86	247	25.03.17	1	0	0	0	0		Road/Trek
		Maniauna	268	323	Dogura HC	293	50	131	25.03.17	1	0	0	0	0		Road/Trek
25	WANAMA		506	652		654	132	306		1	0	0	0	0		
		Wanama	506	652	Dogura HC	654	132	306	25.03.17	1	0	0	0	0		Road/Trek
26	BOYABOYA		693	607		561	122	294		2	0	0	0	0		
		Boyaboya	350	375	Dogura HC	336	73	179	24.03.17	1	0	0	0	0		Road/Trek
		Rarau	343	232	Dogura HC	225	49	115	24.03.11	1	0	0	0	0		Road/Trek
27	GADOVISU		660	536		458	100	242		1	0	0	0	0		
		Godovisu	660	536	Dogura HC	458	100	242	23.03.17	1	0	0	0	0		Road/Trek
28	DIDIA		408	500		396	87	225		2	0	0	0	0		
		Didia	320	285	Dogura HC	169	37	105	21.03.17	1	0	0	0	0		Road
		Kodoga	88	215	Dogura HC	227	50	120	21.03.17	1	0	0	0	0		Road
29	MAINAWA		358	330		309	60	150		1	0	0	0	0		
		Mainawa	358	330	Dogura HC	309	60	150	22.03.17	1	0	0	0	0		Road
30	POVA		395	419		430	111	238		1	0	0	0	0		
		Pova	395	419	Dogura HC	430	111	238	21.03.17	1	0	0	0	0		Trek
				0						0						
<b>MARAMATANA RURAL</b>			<b>10,769</b>	<b>12,211</b>		<b>12,244</b>	<b>2,422</b>	<b>5859</b>		<b>21</b>	<b>12</b>	<b>0</b>	<b>0</b>	<b>235</b>	<b>4</b>	
1	LAVORA		462	472		484	89	219		1	0	0	0	0		
		Lavora	462	472	Garuahi HC	484	89	219	07.04.17	1	0	0	0	0		Sea access due to landslide
2	TOPURA		673	704		651	109	329		1	0	0	0	0		
		Topura	673	704	Garuahi HC	651	109	329	07.04.17	1	0	0	0	0		Sea access due to landslide
3	IAPOA No 1		187	223		264	57	122		1	0	0	0	0		
		Lapoa No 1	187	223	Garuahi HC	264	57	122	07.04.17	1	0	0	0	0		Sea access due to landslide
4	WAMAWAMANA		439	563		610	114	296		1	0	0	0	0		
		Wamawamana	439	563	Garuahi HC	610	114	296	05.04.17	1	0	0	0	0		Road access
5	TAUPOTA		1,111	1,222		1,151	201	550		1	1	0	0	0		
		Taupota	1,111	1,222	Garuahi HC	1,151	201	550	05.04.17	1	1	0	0	0		Road access
6	GARUahi		687	744		747	119	355		2	2	0	0	0		
		Garuahi	599	534	Garuahi HC	634	97	304	05.04.17	1	1	0	0	0		Road access
		Garuahi Govt.Station	88	210	Garuahi HC	113	22	51	05.04.17	1	1	0	0	0		Road access
7	AWAIAMA		545	733		814	174	379		1	0	0	0	87		
		Awaiama	545	733	Garuahi HC	814	174	379	06.04.17	1	0	0	0	87		Road access
8	KEIA		521	538		499	45	227		1	0	0	0	0		
		Keia	521	538	Garuahi HC	499	45	227	07.04.17	1	0	0	0	0		
9	IAPOA No 2		861	926		914	113	425		1	0	0	0	29		
		Iapoa No 2	861	926	Garuahi HC	914	113	425	06.04.17	1	0	0	0	29		Road access
10	POLOTONA		529	562		541	129	260		1	0	0	0	31		
		Polotona	529	562	Garuahi HC	541	129	260	06.04.17	1	0	0	0	31		Road access
11	HUHUNA		832	880		840	155	397		1	0	0	0	52		
		Huhuna	832	880	Garuahi HC	840	155	397	06.04.17	1	0	0	0	52		Road access
12	GUGA		638	591		607	124	300		1	1	0	0	0		
		Guga	638	591	East Cape HC	607	124	300	9.04.17	1	1	0	0	0		Boat/Coastal
13	WAGOHUHU		568	732		722	138	343		1	1	0	0	15	N.B.C	Near Tawali
		Wagohuhu	568	732	East Cape HC	722	138	343	02.04.17	1	1	0	0	15	N.B.C	Boat/Coastal
14	BIWA		274	426		325	95	170		1	1	0	0	0		Near Tawali
		Biwa	274	426	East Cape HC	325	95	170	03.04.17	1	1	0	0	0		Road
15	IBULAI		256	381		361	109	188		1	1	0	0	7	R.M.B	Road
		Ibulai	256	381	East Cape HC	361	109	188	03.04.17	1	1	0	0	7	R.M.B	Road
16	RONANA		748	753		841	196	402		1	1	0	0	11		
		Ronana	748	753	East Cape HC	841	196	402	03.04.17	1	1	0	0	11	N.B.C	Road
17	EAST CAPE		609	772		806	180	392		2	2	0	0	3		
		East Cape	565	694	East Cape HC	726	166	354	03.04.17	1	1	0	0	3	R.M.B	Road
		East Cape Msn Station	44	77	East Cape HC	80	14	38	03.04.17	1	1	0	0	0		Road
18	IABAM \ PAHILELE		78	87		104	33	59		1	1	0	0	0		
		Iabam/Pahilele	78	87	East Cape HC	104	33	59	02.04.17	1	1	0	0	0		Boat/Coastal
19	NUAKATA		751	904		963	242	446		1	1	0	0	0		
		Nuakata	751	904	East Cape HC	963	242	446	02.04.17	1	1	0	0	0		Boat/Coastal

LLG	WARD	Villages	Estimated 2017 Data Based On 2000 Census	Estimated 2017 Data Based On 2013 Data	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Villages	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
			0							0						
<b>HUHU RURAL</b>			<b>35,040</b>	<b>39,642</b>		<b>40,658</b>	<b>8,260</b>	<b>19654</b>		<b>86</b>	<b>72</b>	<b>17</b>	<b>1</b>	<b>3,035</b>	<b>68</b>	
1	MUTUYUWA		1,072	2,233		2,854	561	1,366		1	1	1	1	139		
		Mutuyuwu	1,072	2,233	Gurney HC	2,854	561	1366	07.04.17	1	1	1	1	139	NBC, FM	Road
2	DIVINAI		885	1,114		1,059	221	518		2	2	0	0	152		
		Divinai	862	1,114	Gurney HC	961	200	470	07.04.17	1	1	0	0	133	NBC, FM	Road
		Divinai Primary School	23	0	Gurney HC	98	21	48	07.04.17	1	1	0	0	19	NBC, FM	Road
3	DAIO		672	684		825	148	378		1	1	0	0	18		
		Daio	672	684	Daio HC	825	148	378	08.04.17	1	1	0	0	18	RMB	Road
4	RABE		1,283	1,674		2,108	475	1,057		4	2	2	0	233		
		Rabe	1,107	1,532	Gurney HC	1,970	433	986	06.04.17	1	1	1	0	193	NBC, FM	Road
		Rabe Primary School	47	0	Gurney HC					1						Included under Rabe
		Nawae Camp	119	142	Gurney HC	138	42	71	06.04.17	1	1	1	0	40	NBC, FM	Road
		Diwila Sil	9	0	Gurney HC					1						Included under Rabe
5	YANEYANENE		1,114	2,115		1,847	371	914		5	5	0	0	46		
		Delama No 1	177	212	Gurney HC	237	46	118	09.04.17	1	1	0	0	0	NBC, FM	Road
		Yaneyanene	719	1,597	Gurney HC	1,139	232	552	09.04.17	1	1	0	0	0	NBC, FM	Road
		Sineada	218	306	Gurney HC	219	50	105	09.04.17	1	1	0	0	18	NBC, FM	Road
		H.E.R Camp			Gurney HC	195	33	109	25.05.17	1	1	0	0	24	NBC, FM	Road
		Jonesville			Gurney HC	57	10	30	25.05.17	1	1	0	0	4	NBC, FM	Road
6	SIASIADA		2,785	2,321		2,070	424	1,024		5	5	0	0	64		
		Siasiada	605	507	Sagarai HC	468	117	250	07.04.17	1	1	0	0	1	RMB	Road
		Sagarai Estate (1)	1,126	624	Sagarai HC	416	86	204	07.04.17	1	1	0	0	10	RMB	Road(Salima)
		Tamonau Estate (2)	445	589	Sagarai HC	350	71	166	07.04.17	1	1	0	0	11	RMB	Road
		Siasiada Primary School	91	38	Sagarai HC	245	44	120	07.04.17	1	1	0	0	16	RMB	Road
		Sagarai Estate (3)	518	564	Sagarai HC	591	106	284	07.04.17	1	1	0	0	26	RMB	Road(Bomata)
7	GIBARA		288	662		345	90	168		1	1	0	0	23		
		Gibara	288	662	Daio HC	345	90	168	08.04.17	1	1	0	0	23	RMB	Road
8	LAMHAGA		654	829		692	144	330		1	1	0	0	52		
		Lamhaga	654	829	Daio HC	692	144	330	09.04.17	1	1	0	0	52	RMB	Boat
9	LELEHUDI		454	546		433	91	208		2	2	0	0	40		
		Lelehuri	433	546	Gurney HC	416	87	199	07.04.17	1	1	0	0	36	NBC, FM	Road
		Lelehuri Com. School	21	0	Gurney HC	17	4	9	07.04.17	1	1	0	0	4	NBC, FM	Road
10	WATUNOU		364	631		476	117	229		1	1	0	0	65		
		Watunou	364	631	Gurney HC	476	117	229	08.04.17	1	1	0	0	65	NBC, FM	Road
11	NIGILA		845	1,054		948	200	454		2	2	0	0	113		
		Nigila	567	708	Gurney HC	647	126	309	08.04.17	1	1	0	0	73	NBC, FM	Road
		Gopaia	279	347	Gurney HC	301	74	145	08.04.17	1	1	0	0	40	NBC, FM	Road
12	AHIOMA		2,616	3,421		5,918	1,192	2,870		7	6	6	0	366		
		Ahioma	402	800	Gurney HC	914	202	459	07.04.17	1	1	1	0	55	NBC, FM	Road
		Ahioma Womens Centre	375	685	Gurney HC	743	158	362	07.04.17	1	1	1	0	50	NBC, FM	Road
		Wiola	363	1,246	Gurney HC	1,948	367	936	07.04.17	1	1	1	0	107	NBC, FM	Road
		Wagawaga	797	0	Gurney HC	866	171	421	07.04.17	1	1	1	0	69	NBC, FM	Road
		Galihani	288	230	Gurney HC	772	150	363	07.04.17	1	1	1	0	46	NBC, FM	Road
		Lelehoa	328	459	Gurney HC	675	144	329	07.04.17	1	1	1	0	39	NBC, FM	Road
		Lelehoa Com. School	64	0	Gurney HC					1						Included under Lelehoa
13	WAEMA		1,558	1,767		1,658	345	821		1	1	1	0	86		
		Waema	1,558	1,767	Gurney HC	1,658	345	821	07.04.17	1	1	1	0	86	NBC, FM	Road
14	GABUGABUNA		906	843		776	149	379		1	1	0	0	83		
		Gabugabuna	906	843	Gurney HC	776	149	379	09.04.17	1	1	0	0	83	NBC, FM	Road
15	MAIWARA		722	729		845	162	418		1	1	0	0	114		
		Maiwara	722	729	Gurney HC	845	162	418	09.04.17	1	1	0	0	114	NBC, FM	Road
16	NAURA		3,169	3,053		1,892	406	902		6	5	0	0	236		
		Naura	759	849	Gurney HC	452	106	203	09.04.17	1	1	0	0	50	NBC, FM	Road
		Kaupurika	270	322	Gurney HC	562	100	269	09.04.17	1	1	0	0	50	NBC, FM	Road
		Gumini	297	397	Gurney HC	335	87	163	09.04.17	1	1	0	0	47	NBC, FM	Road
		Delama No 2	289	268	Gurney HC	339	73	170	09.04.17	1	1	0	0	68	NBC, FM	Road
		Naura Primary School	26	0	Gurney HC	204	40	97	09.04.17	1	1	0	0	21	NBC, FM	Road
		Waigani Estate	1,528	1,216	Gurney HC					1						Included under Hagita Estate
17	GELAMALAI		1,391	1,431		1,373	277	677		5	5	0	0	56		
		Gelamalaia	309	667	Sagarai HC	328	72	167	06.04.17	1	1	0	0	17	RMB	Road
		Milla	222	167	Sagarai HC	231	52	118	06.04.17	1	1	0	0	0	RMB	Road
		Wella	393	270	Sagarai HC	230	63	121	06.04.17	1	1	0	0	0	RMB	Road
		Ata'ata	177	327	Sagarai HC	335	46	158	06.04.17	1	1	0	0	20	RMB	Road
		Awhatubo	289	0	Sagarai HC	249	44	113	06.04.17	1	1	0	0	19	RMB	Road
18	GAMADOUDOU		1,210	1,235		1,226	273	585		2	2	0	0	94		
		Gamadoudou	678	820	Daio HC	678	149	325	08.04.17	1	1	0	0	34	RMB	Road
		Ulabo Logging Camp	532	415	Daio HC	548	124	260	08.04.17	1	1	0	0	60	RMB	Road
19	WAGAWAGA		922	866		848	158	391		1	1	0	0	18		
		Wagawaga	922	866	Daio HC	848	158	391	08.04.17	1	1	0	0	18	RMB	Road
20	GWAVILI		1,018	935		848	155	399		2	2	0	0	68		
		Gwavili	399	661	Daio HC	383	71	179	09.04.17	1	1	0	0	53	RMB	Road
		Hanabala	618	274	Daio HC	465	84	220	09.04.17	1	1	0	0	15	RMB	Road
21	UPPER DAWADAWA		518	379		255	56	116		1	1	0	0	25		
		Upper Dawadawa	518	379	Daio HC	255	56	116	09.04.17	1	1	0	0	25	RMB	Boat
22	BUBULETA		1,272	1,424		1,363	334	660		3	3	0	0	181		
		Bubuleta	841	929	Gurney HC	701	170	340	07.04.17	1	1	0	0	112	NBC, FM	Road
		Daduwe	324	495	Gurney HC	464	114	225	08.04.17	1	1	0	0	40	NBC, FM	Road
		Bubuleta Dpi Station	107	0	Gurney HC	198	50	95	07.04.17	1	1	0	0	29	NBC, FM	Road
23	WALALAI		716	971		868	160	425		1	1	0	0	86		
		Walalala	716	971	Gurney HC	868	160	425	07.04.17	1	1	0	0	86	NBC, FM	Road
24	BOU		1,094	1,188		1,191	237	572		2	2	0	0	97		
		Bou	612	646	Gurney HC	608	116	292	07.04.17	1	1	0	0	64	NBC, FM	Road
		Lelegwagwa	481	542	Gurney HC	583	121	280	07.04.17	1	1	0	0	33	NBC, FM	Road
25	IPOULI		434	761		774	143	366		1	1	0	0	9		
		Ipouli	434	761	Sagarai HC	774	143	366	06.04.17	1	1	0	0	9	RMB	Road
26	KILAKILANA		652	581		664	146	321		1	1	0	0	39		

LLG	WARD	Villages	Estimated 2017 Data Based On 2000 Census	Estimated 2017 Data Based On 2013 Data	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Villages	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
27	BOROWAI		812	1,013		482	111	259		3	0	0	0	0		
		Borowai	393	614	Gurney HC	482	111	259	11.04.17	1	0	0	0	0	NBC, FM	Road
		Lower Dawadawa	289	400	Gurney HC					1						Included under Daio HC
		Hagita Estate	129	0	Gurney HC					1						Same as Ward 30
28	LAVIAM		987	1,127		797	187	388		2	2	0	0	154		
		Laviam	920	1,127	Gurney HC	729	173	355	09.04.17	1	1	0	0	146	NBC, FM	Road
		Lavada Mission Station	67	0	Gurney HC	68	14	33	09.04.17	1	1	0	0	8	NBC, FM	Road
29	LOWER DAWADAWA		268	345		584	104	275		1	1	0	0	29		
		KEBEGUIJI	268	345	Daio HC	584	104	275	08.04.17	1	1	0	0	29	RMB	Boat
30	HAGIT ESTATE		4,361	3,709		4,639	823	2,184		20	13	7	0	349		
		Hegita 001	673	0	Hagit Est HC					1						Broken into new settings
		Hegita Estate	716	938	Hagit Est HC					1						Broken into new settings
		Kwea	733	296	Hagit Est HC	836	129	391	06.04.17	1	1	1	0	46	RMB	Road
		Milne Bay Estate	184	0	Hagit Est HC					1						Broken into new settings
		Nawae Camp	84	188	Gurney HC					1						Same as in Ward 4
		Cis - Giligili	334	428	Hagit Est HC	228	40	108	11.04.17	1	1	0	0	40	RMB	Should be Gurney HC
		V.o.p	120	0	Hagit Est HC	162	37	78	11.04.17	1	1	1	0	37	RMB	Should be Gurney HC
		Magisubub	257	415	Hagit Est HC	344	50	162	06.04.17	1	1	1	0	34	RMB	Should be Gurney HC
		D.c.a	139	0	Hagit Est HC	52	6	25	11.04.17	1	1	0	0	1	RMB	Should be Gurney HC
		Hagita High School	276	106	Hagit Est HC	256	41	120	11.04.17	1	1	1	0	41	RMB	Should be Gurney HC
		Hagita	224	0	Hagit Est HC					1						Road
		Hagita Nursery	291	296	Hagit Est HC	135	26	63	06.04.17	1	1	0	0	16	RMB	Road
		Kwea Ex Res	163	987	Hagit Est HC	248	50	117	06.04.17	1	1	0	0	17	RMB	Road
		Coecon Camp	168	55	Hagit Est HC					1						Included under Kwea
		River Side		NEW	Hagit Est HC	208	49	98	06.04.17	1	1	0	0	8	RMB	New Village
		Giligili Executive		NEW	Hagit Est HC	150	28	71	06.04.17	1	1	1	0	18	RMB	Should be Gurney HC
		Middle Village		NEW	Hagit Est HC	514	87	241	06.04.17	1	1	1	0	27	RMB	New Village
		Bottom Village		NEW	Hagit Est HC	252	50	119	06.04.17	1	1	0	0	32	RMB	New Village
		Waigani Estate		NEW	Hagit Est HC	1,103	203	520	06.04.17	1	1	1	0	14	RMB	New Village
		P/Sch, Clinic, G/Hse		NEW	Hagit Est HC	151	27	71	06.04.17	1	0	0	0	18	RMB	New Village
<b>SUAU RURAL</b>			<b>13,651</b>	<b>14,196</b>		<b>14,495</b>	<b>2,755</b>	<b>7157</b>		<b>39</b>	<b>39</b>	<b>2</b>	<b>0</b>	<b>179</b>	<b>15</b>	
1	KOUKOU		277	277		322	52	149		1	1	0	0	0		
		Koukou	277	277	Suau HC	322	52	149	04.03.17	1	1	0	0	0		Boat/Coastal
2	ILOILO		530	423		454	105	230		1	1	0	0	0		
		Iloilo	530	423	Suau HC	454	105	230	04.03.17	1	1	0	0	0		Boat/Coastal
3	BONARUA		244	225		204	35	103		1	1	0	0	0		
		Bonarua	244	225	Suau HC	204	35	103	04.03.17	1	1	0	0	0		Boat/Coastal
4	MODEWA		378	361		371	74	190		1	1	0	0	0		
		Modewa	378	361	Suau HC	371	74	190	05.03.17	1	1	0	0	0		Boat/Coastal
5	BAIBASIGA		224	225		187	31	93		1	1	0	0	0		
			224	225	Suau HC	187	31	93	05.03.17	1	1	0	0	0		Boat/Coastal
6	SUAU ISLAND		649	585		523	119	288		2	2	0	0	0		
		Suau Island	384	413	Suau HC	375	83	206	06.03.17	1	1	0	0	0		Boat/Island
		Pouwaelo	265	172	Suau HC	148	36	82	02.03.17	1	1	0	0	0		Boat/Island
7	SIBALAI		593	397		400	79	189		1	1	0	0	0		
		Sibalai	593	397	Suau HC	400	79	189	03.03.17	1	1	0	0	0		Boat
8	IPULAI		632	588		528	106	285		2	2	0	0	0		
		Ipulai	286	153	Suau HC	495	99	265	05.03.17	1	1	0	0	0		Road/Boat
		Boeou	346	435	Suau HC	33	7	20	05.03.17	1	1	0	0	0		Road/Boat
9	SAVALALA		434	340		313	56	156		1	1	0	0	0		
		Savalala	434	340	Suau HC	313	56	156	03.03.17	1	1	0	0	0		Road/Boat
10	NAVABU		669	500		560	116	303		1	1	0	0	0		
		Navabu	669	500	Suau HC	560	116	303	04.03.17	1	1	0	0	0		Road/Boat
11	ISUAE		225	293		328	57	164		1	1	0	0	0		
		Isuae	225	293	Fife Bay HC	328	57	164	04.03.17	1	1	0	0	0		1hrs 20mins from the HC by boat
12	SAVAIA		393	300		300	68	155		1	1	0	0	0		
		Savaia	393	300	Fife Bay HC	300	68	155	04.03.17	1	1	0	0	0		1hrs 40mins from the HC by boat
13	OYAMAMANIA		236	233		214	50	113		1	1	0	0	0		
		Denolo	236	233	Fife Bay HC	214	50	113	04.03.17	1	1	0	0	0		2hrs from the HC by boat
14	ISUDIUDI		335	305		270	53	136		1	1	0	0	0		
		Isudiudiu	335	305	Fife Bay HC	270	53	136	04.03.17	1	1	0	0	0		1hrs 30mins from the HC by boat
15	SAGA 'AHO		448	522		450	96	224		1	1	0	0	0		
		Saga'aho	448	522	Fife Bay HC	450	96	224	06.03.17	1	1	0	0	0		Boat from Alotau
16	ISUISU		481	415		499	92	233		1	1	0	0	0		
		Isuisu	481	415	Fife Bay HC	499	92	233	05.03.17	1	1	0	0	0		45mins from the HC by boat
17	ISUDAU		407	318		281	71	136		1	1	0	0	0		
		Isudau	407	318	Fife Bay HC	281	71	136	06.03.17	1	1	0	0	0		45mins walked from the HC
18	SEASEA ( SOUTH )		586	360		430	72	216		2	2	0	0	0		
		Avololo	250	226	Fife Bay HC	253	43	128	03.03.17	1	1	0	0	0		Road
		Fife Bay Station	337	134	Fife Bay HC	177	29	88	02.03.17	1	1	0	0	0		Road
19	SEASEA ( NORTH )		492	419		398	80	187		1	1	0	0	0		
		Seasea/Avalolo	492	419	Fife Bay HC	398	80	187	05.03.17	1	1	0	0	0		25min from Fife bay HC by boat
20	SILOSILO		753	440		636	119	298		1	1	0	0	0		
		Silosilo	753	440	Fife Bay HC	636	119	298	05.03.17	1	1	0	0	0		1hrs from Fife bay HC by boat
21	KAUKAU		332	340		288	61	142		1	1	0	0	0		
		Kaukau	332	340	Fife Bay HC	288	61	142	05.03.17	1	1	0	0	0		1hrs 30 by boat from Fife bay HC
22	BONABONA ISLAND		364	270		246	50	126		1	1	1	0	24		
		Bonabona	364	270	Nube HC	246	50	126	06.04.17	1	1	1	0	24	RMB	Boat
23	DAHUNI		951	1,392		1,237	239	611		2	2	0	0	15		
		Dahuni	614	652	Nube HC	629	115	322	06.04.17	1	1	0	0	5	RMB	Boat
		Maraiawate Estate	337	740	Nube HC	608	124	289	08.04.17	1	1	0	0	10	RMB	Road
24	LEILEIAFA		390	400		477	86	237		1	1	0	0	5		
		Leileiafa	390	400	Sagarai HC2	477	86	237	07.04.17	1	1	0	0	5	RMB	Road
25	SUIEABINA		654	874		873	163	425		3	3	0	0	1		

LLG	WARD	Villages	Estimated 2017 Data Based On 2000 Census	Estimated 2017 Data Based On 2013 Data	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Villages	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment	
		Sibali	NEW	0	Nube HC	116	18	55	06.04.17	1	1	0	0	0	RMB	Road	
		Opuopu	NEW	0	Nube HC	86	13	44	06.04.17	1	1	0	0	1	RMB	Road	
		Suaibina/Laimodo		654	874	Nube HC	671	132	326	06.04.17	1	1	0	0	RMB	Road	
26	GADAIKU		699	599		610	106	302		2	2	0	0	12			
		Gadaisu		436	331	Nube HC	394	70	199	06.04.17	1	1	0	0	12	RMB	Boat/Road
		Gogosiba		264	268	Nube HC	216	36	103	06.04.17	1	1	0	0	0	RMB	Boat
27	WADAUDA		381	382		496	81	251		3	3	0	0	3			
		Sololo		97	120	Nube HC	122	21	57	09.04.17	1	1	0	0	1	RMB	Road
		Kondu		105	126	Nube HC	182	28	96	02.04.17	1	1	0	0	1	RMB	Trek
		Wadauda		178	136	Nube HC	192	32	98	02.04.17	1	1	0	0	1	RMB	Trek
28	BOLIAVE		704	2,198		2,376	398	1,105		2	2	1	0	116			
		Boilave		704	521	Nube HC	833	146	384	09.04.17	1	1	0	0	16	RMB	Road
		Padipadi Estate	NEW	1,677		Nube HC	1,543	252	721	08.04.17	1	1	1	0	100	RMB	Road
29	TAKWATAKWAIE		190	214		224	40	110		1	1	0	0	3			
		Takwatakwai		190	214	Nube HC	224	40	110	7.04.17	1	1	0	0	3	RMB	Trek
				0													
<b>ALOTAU URBAN</b>			<b>15,063</b>	<b>11,926</b>		<b>12,111</b>	<b>1,982</b>	<b>5777</b>		<b>23</b>	<b>11</b>	<b>11</b>	<b>0</b>	<b>792</b>	<b>11</b>		
1	ALOTAU TOWN		15,063	11,926		12,111	1,982	5,777		23	11	11	0	792			
		Bottom town		634	1,081	Gurney HC2	1,757	276	849	05.04.17	1	1	1	0	76	NBC, FM	Bottom Town
		Kiriwina Street		632	914	Gurney HC2	663	100	310	05.04.17	1	1	1	0	35	NBC, FM	Bottom Town
		Red Hill		781	1,198	Gurney HC2	1,524	241	710	05.04.17	1	1	1	0	89	NBC, FM	Red Hill
		Alotau Hospital		1,129	2,029	Gurney HC2	992	154	477	05.04.17	1	1	1	0	87	NBC, FM	Middle Town
		Alotau		373	0	Gurney HC2					1						Covered under Alotau Hospital
		Section 1/17/45		753	0	Gurney HC2					1						Covered under Alotau Hospital
		Top Town		635	777	Gurney HC2	971	163	453	05.04.17	1	1	1	0	91	NBC, FM	Top Town
		Harbour		56	293	Gurney HC2	736	114	363	05.04.17	1	1	1	0	38	NBC, FM	Middle Town
		Works Quarters		315	334	Gurney HC2	294	50	142	05.04.17	1	1	1	0	48	NBC, FM	Bottom Town
		New Guinea Settlement		856	842	Gurney HC2	564	100	272	05.04.17	1	1	1	0	56	NBC, FM	Bottom Town
		Alotau		949	0	Gurney HC2					1						Covered under Bottom Town
		Goilanai		1,010	2,350	Gurney HC2	2,419	392	1145	05.04.17	1	1	1	0	151	NBC, FM	Goilanai
		Alotau		934	1,860	Gurney HC2	1,873	343	905	05.04.17	1	1	1	0	99	NBC, FM	Kubulewa (KB)
		Alptau		638	0	Gurney HC2					1						Covered under Bottom Town
		Alotau		419	0	Gurney HC2					1						Covered under Bottom Town
		Alotau		626	0	Gurney HC2					1						Covered under Bottom Town
		Hihirairo Settlement		829	0	Gurney HC2					1						Covered under Bottom Town
		Milne Bay Settlement		344	0	Gurney HC2					1						Covered under Bottom Town
		Goodenough Camp		686	0	Gurney HC2					1						Covered under Bottom Town
		Goilanai Top		291	0	Gurney HC2					1						Covered under Bottom Town
		Section 34/35/36		439	0	Gurney HC2					1						Covered under Bottom Town
		Alotau Settlement		396	0	Gurney HC2					1						Covered under Bottom Town
		Sewa		1,338	248	Gurney HC2	318	49	151	05.04.17	1	1	1	0	22	BC, PNG F	Middle Town

## ANNEX THREE

MILNE BAY PROVINCE  
LLIN DISTRIBUTION SUMMARY SHEET

LLG	WARD	Village	Estimated 2017 Data Based On 2000 Census	Estimated 2017 Data Based On 2013 Data	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Villages	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
<b>SAMARAI - MURUA</b>			<b>61,395</b>	<b>65,115</b>		<b>64,993</b>	<b>12,996</b>	<b>32,468</b>		<b>245</b>	<b>201</b>	<b>0</b>	<b>0</b>	<b>669</b>	<b>84</b>	
<b>BWANABWANA RURAL</b>			<b>12,671</b>	<b>13,818</b>	<b>12,671</b>	<b>13,238</b>	<b>2,638</b>	<b>6,870</b>		<b>40</b>	<b>40</b>	<b>0</b>	<b>0</b>	<b>115</b>	<b>13</b>	
1	HAMAMA		873	965		1,090	207	532		5	5	0	0	0		
		Buiari Island	536	309	Sideia HC	315	54	160	03.03.17	1	1	0	0	0		Boat
		Hamama	337	172	Sideia HC	204	44	100	03.03.17	1	1	0	0	0		Boat
		Gogolabia		203	Sideia HC	268	50	124	03.03.17	1	1	0	0	0		Boat
		Himoe		172	Sideia HC	168	39	84	02.03.17	1	1	0	0	0		Boat
		Numondubo		108	Sideia HC	135	20	64	03.03.17	1	1	0	0	0		Boat
2	LOANI		492	491		420	96	215		1	1	0	0	3		
		Loani	492	491	Samurai HC	420	96	215	04.03.17	1	1	0	0	3	NBC	Boat
3	LOGEA		767	916		723	138	377		2	2	0	0	0		
		Logea Pota	350	339	Samurai HC	320	59	168	04.03.17	1	1	0	0	0	NBC	Boat
		Boiduhana	417	577	Samurai HC	403	79	209	04.03.17	1	1	0	0	0	NBC	Boat
4	KWATO		576	507		495	101	272		2	2	0	0	0		
		Kwato Island	101	148	Samurai HC	59	14	33	04.03.17	1	1	0	0	0	NBC	Boat
		Logea Kai	475	359	Samurai HC	436	87	239	04.03.17	1	1	0	0	0	NBC	Boat
5	TEGERAUNA		597	684		800	170	399		2	2	0	0	32		
		Duiauna	351	480	Sideia HC	380	91	200	06.03.17	1	1	0	0	32		Boat
		Tegerauna	246	204	Sideia HC	420	79	199	06.03.17	1	1	0	0	0		Boat
6	GOTAI		606	777		647	119	330		2	2	0	0	6		
		Gadogadowa	351	532	Sideia HC	454	84	217	06.03.17	1	1	0	0	6		Boat
		Gotai	255	245	Sideia HC	193	35	113	06.03.17	1	1	0	0	0		Boat
7	DAWSON		266	360		345	73	178		2	2	0	0	0		
		Dawson Island	266	212	Kwaraiwa HC	181	39	95	23.02.17	1	1	0	0	0		Boat
		Ole Island		148	Kwaraiwa HC	164	34	83	23.02.17	1	1	0	0	0		Boat
8	SAMARAI EAST		351	269		237	41	122		1	1	0	0	2		
		Samarai 03	351	269	Kwaraiwa HC	237	41	122	04.03.17	1	1	0	0	2	NBC	Boat
9	KWARAIWA		509	672		613	135	309		1	1	0	0	0		
		Kwaraiwa	509	672	Kwaraiwa HC	613	135	309	23.02.17	1	1	0	0	0		Boat
10	SAUWASAUWAGA		819	997		777	130	384		1	1	0	0	46		
		Sauwasauwaga	819	997	Samurai HC	777	130	384	07.03.17	1	1	0	0	46	NBC	Boat
11	ANAGUSA		232	340		291	65	160		2	2	0	0	0		
		Anagusa Island	121	212	Kwaraiwa HC	161	34	93	22.02.17	1	1	0	0	0		Boat
		Tewatewa	111	128	Kwaraiwa HC	130	31	67	23.02.17	1	1	0	0	0		Boat
12	SAMARAI NORTH		414	266		237	48	155		1	1	0	0	11		
		Samarai 01	414	266	Samurai HC	237	48	155	04.03.17	1	1	0	0	11	NBC	Boat
13	TUBETUBE		663	710		734	142	401		2	2	0	0	0		
		Skeleton Island	401	371	Kwaraiwa HC	386	75	207	24.02.17	1	1	0	0	0		Boat
		Tubetube Island	262	339	Kwaraiwa HC	348	67	194	24.02.17	1	1	0	0	0		Boat
14	YOKOWA		367	525		490	90	243		2	2	0	0	3		
		Yokowa	367	254	Sideia HC	228	43	121	02.03.17	1	1	0	0	3		Boat
		Mwahiu		272	Sideia HC	262	47	122	02.03.17	1	1	0	0	0		Boat
15	GIGIA		472	385		477	83	227		1	1	0	0	0		
		Gigia	472	385	Sideia HC	477	83	227	03.03.17	1	1	0	0	0		Boat
16	HABANI		314	385		375	86	180		1	1	0	0	11		
		Habani	314	385	Sideia HC	375	86	180	02.03.17	1	1	0	0	11		Boat
17	SIMAGAI		485	518		361	94	209		1	1	0	0	0		
		Simagai	336	293	Sideia HC	361	94	209	08.03.17	1	1	0	0	0	NBC	Boat
		Leilei	149	225	Sideia HC											Moved to Simagai
18	WARE ISLAND		1,006	1,031		985	200	538		1	1	0	0	0		
		Ware	1,006	1,031	Kwaraiwa HC	985	200	538	22.02.17	1	1	0	0	0		Boat
19	BEDAUNA		505	645		538	132	285		2	2	0	0	0		
		Bedauna	253	307	Sideia HC	291	69	151	02.03.17	1	1	0	0	0		Boat
		Kitai Island	252	338	Sideia HC	247	63	134	02.03.17	1	1	0	0	0		Boat
20	SIDEIA		282	191		189	32	107		1	1	0	0	0		
		Sideai Mission Station	282	191	Sideia HC	189	32	107	06.03.17	1	1	0	0	0		Boat
21	KUIARO		428	453		404	78	194		2	2	0	0	0		
		Kuiaro	323	288	Samurai HC	348	66	167	05.03.17	1	1	0	0	0	NBC	Boat
		Belasana	105	164	Samurai HC	56	12	27	08.03.17	1	1	0	0	0	NBC	Boat
22	SEKUKU		242	209		386	62	181		1	1	0	0	1		
		Sekuku	242	209	Sideia HC	386	62	181	06.03.17	1	1	0	0	1		Boat
23	SIDUDU		1,403	1,522		1,624	316	872		4	4	0	0	0		
		Sidudu	400	277	Samurai HC	258	50	132	06.03.17	1	1	0	0	0	NBC	Boat
		Sebuluna	444	623	Samurai HC	735	150	423	06.03.17	1	1	0	0	0	NBC	Boat
		Magehau	559	585	Samurai HC	529	97	264	07.03.17	1	1	0	0	0		Boat
		Doini Island Resort		38	Samurai HC	102	19	53	04.03.17	1	1	0	0	0		Boat
				0												
<b>LOUISIADE RURAL</b>			<b>26,474</b>	<b>25,581</b>		<b>26,546</b>	<b>5,507</b>	<b>13008</b>		<b>102</b>	<b>89</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>0</b>	
1	MWABUA		1,822	1,529		1,561	288	788		3	3	0	0	0		
		Mwabua	569	504	Bwagaioa HC	557	100	267	06.03.17	1	1	0	0	0		
		Rocky Town	209	240	Bwagaioa HC	425	82	211	06.03.17	1	1	0	0	0		
		Bwagaioa Station	1,044	785	Bwagaioa HC	579	106	310	06.03.17	1	1	0	0	0		
2	NARIAN		1,141	908		971	201	436		3	3	0	0	0		
		Narian	529	363	Bwagaioa HC	363	74	131	05.03.17	1	1	0	0	0		
		Cooktown	381	406	Bwagaioa HC	315	69	157	05.03.17	1	1	0	0	0		
		Quartz Mountain	230	139	Bwagaioa HC	293	58	148	05.03.17	1	1	0	0	0		
3	BWAGAIOA		1,078	887		911	189	439		5	5	0	0	0		
		Bwagaioa	496	222	Bwagaioa HC	318	70	156	06.03.17	1	1	0	0	0		
		Awakokua	131	278	Bwagaioa HC	144	36	71	06.03.17	1	1	0	0	0		
		Oia Motimoti	102	0	Bwagaioa HC	140	21	65	06.03.17	1	1	0	0	0		
		Ebaluwa	174	387	Bwagaioa HC	168	37	80	06.03.17	1	1	0	0	0		
		Galowa	175	0	Bwagaioa HC	141	25	67	06.03.17	1	1	0	0	0		

LLG	WARD	Village	Estimated 2017 Data Based On 2000 Census	Estimated 2017 Data Based On 2013 Data	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Villages	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
4	HINAUTA		748	713		693	198	367		5	5	0	0	0		
		Egigina	65	57	Bwagaioa HC	65	19	35	05.03.17	1	1	0	0	0		
		Laiyayapona	262	334	Bwagaioa HC	262	80	141	05.03.17	1	1	0	0	0		
		Gamtala	212	95	Bwagaioa HC	115	34	63	05.03.17	1	1	0	0	0		
		Baheyataena	78	117	Bwagaioa HC	117	30	58	05.03.17	1	1	0	0	0		
		Luwabuhuna	131	109	Bwagaioa HC	134	35	70	05.03.17	1	1	0	0	0		
5	KAUBWAGA		807	717		895	196	457		4	4	0	0	0		
		Pilupiluwa	10	22	Bwagaioa HC	102	23	50	05.03.17	1	1	0	0	0		
		Gigig	248	252	Bwagaioa HC	412	94	212	05.03.17	1	1	0	0	0		
		Lava	174	200	Bwagaioa HC	185	41	92	05.03.17	1	1	0	0	0		
		Talahuwa	376	244	Bwagaioa HC	196	38	103	05.03.17	1	1	0	0	0		
6	BOIOU		983	991		1,048	202	488		4	4	0	0	0		
		Boiou	285	277	Bwagaioa HC	280	50	133	06.03.17	1	1	0	0	0		
		Ginul	286	280	Bwagaioa HC	332	65	151	06.03.18	1	1	0	0	0		
		Malawiya	172	152	Bwagaioa HC	239	50	110	06.03.18	1	1	0	0	0		
		Banitoma	240	281	Bwagaioa HC	197	37	94	06.03.18	1	1	0	0	0		
7	SIAGARA EAST		939	775		782	171	384		4	4	0	0	0		
		Anna	128	132	Bwagaioa HC	140	31	69	06.03.18	1	1	0	0	0		
		Kelatagitagila	250	211	Bwagaioa HC	220	48	102	06.03.18	1	1	0	0	0		
		Hopitkahin	321	223	Bwagaioa HC	245	50	124	06.03.18	1	1	0	0	0		
		Heut	239	209	Bwagaioa HC	177	42	89	06.03.18	1	1	0	0	0		
8	SIAGARA WEST		1,115	1,190		1,174	271	573		2	1	0	0	0		
		Kalotawa	1,070	1,190	Bwagaioa HC	1,174	271	573	06.03.18	1	1	0	0	0		
		Boma	46	0	Bwagaioa HC					1				0		Included under Kalotawa
9	GULEWA		1,195	1,189		1,182	258	569		6	5	0	0	0		
		Guntuka	80	97	Bwagaioa HC	126	31	56	06.03.18	1	1	0	0	0		
		Lawak	316	227	Bwagaioa HC	273	50	130	06.03.18	1	1	0	0	0		
		Boboaga	151	163	Bwagaioa HC	147	33	70	06.03.18	1	1	0	0	0		
		Hiwina	279	266	Bwagaioa HC	228	49	103	06.03.18	1	1	0	0	0		
		Kakamwa	360	435	Bwagaioa HC	408	95	210	06.03.18	1	1	0	0	0		
		Bogena	10	0	Bwagaioa HC					1						Included under Kakamwa
10	LIAK EAST		960	701		808	172	396		5	4	0	0	0		
		Balitoma	191	204	Bwagaioa HC	187	42	95	06.03.18	1	1	0	0	0		
		Walenaka	273	232	Bwagaioa HC	237	48	118	06.03.18	1	1	0	0	0		
		Pihian	162	176	Bwagaioa HC	197	42	92	06.03.18	1	1	0	0	0		
		Lawana	287	89	Bwagaioa HC	187	40	91	06.03.18	1	1	0	0	0		
		Liak Primary School	47	0	Bwagaioa HC					1						Included under Lawana
11	LIAK WEST		819	737		710	145	345		1	1	0	0	0		
		Panataval	819	737	Bwagaioa HC	710	145	345	06.03.18	1	1	0	0	0		
12	BAGILINA		1,323	1,133		1,184	236	588		3	3	0	0	0		
		Bagilina	408	327	Bwagaioa HC	312	69	173	07.03.17	1	1	0	0	0		
		Manihuna	531	458	Bwagaioa HC	455	90	211	07.03.17	1	1	0	0	0		
		Lalama	384	348	Bwagaioa HC	417	77	204	07.03.17	1	1	0	0	0		
13	EWENA		560	528		544	106	259		3	3	0	0	0		
		Ewena	223	256	Bwagaioa HC	166	38	82	08.03.17	1	1	0	0	0		
		Bwaniewa	196	126	Bwagaioa HC	222	38	103	08.03.17	1	1	0	0	0		
		Bwanabwanal	141	146	Bwagaioa HC	156	30	74	08.03.17	1	1	0	0	0		
14	EBORA		740	864		855	161	421		3	3	0	0	0		
		Ebora	309	231	Bwagaioa HC	157	28	71	08.03.17	1	1	0	0	0		
		Wagawowolia	303	300	Bwagaioa HC	389	73	182	08.03.17	1	1	0	0	0		
		BuluBulu	128	333	Bwagaioa HC	309	60	168	08.03.17	1	1	0	0	0		
15	BWAGABWAGA		669	629		621	125	298		5	5	0	0	0		
		Awanol	178	198	Bwagaioa HC	173	35	85	07.03.17	1	1	0	0	0		
		Mwemwela	73	54	Bwagaioa HC	80	14	37	07.03.17	1	1	0	0	0		
		Patnai	121	114	Bwagaioa HC	95	26	45	07.03.17	1	1	0	0	0		
		Bwaiyiya	129	123	Bwagaioa HC	130	23	63	07.03.17	1	1	0	0	0		
		Awamal	168	141	Bwagaioa HC	143	27	68	07.03.17	1	1	0	0	0		
16	AWAIBI		1,037	1,028		1,022	183	498		4	4	0	0	0		
		Gigimwani	245	193	Bwagaioa HC	144	24	73	07.03.17	1	1	0	0	0		
		Siakeu	230	222	Bwagaioa HC	254	44	123	07.03.17	1	1	0	0	0		
		Gulewa	275	353	Bwagaioa HC	372	68	185	07.03.17	1	1	0	0	0		
		Bwaeyam	287	259	Bwagaioa HC	252	47	117	07.03.17	1	1	0	0	0		
17	ALHOGA		660	637		649	140	334		3	3	0	0	0		
		Alhoga	276	288	Bwagaioa HC	310	64	159	07.03.17	1	1	0	0	0		
		Boloma	129	107	Bwagaioa HC	95	26	51	07.03.17	1	1	0	0	0		
		Lohola	255	242	Bwagaioa HC	244	50	124	07.03.17	1	1	0	0	0		
18	EUAS NORTH		967	1,065		976	246	475		3	3	0	0	0		
		Bogena	54	52	Bwagaioa HC	159	46	86	05.03.17	1	1	0	0	0		
		Veta	182	214	Bwagaioa HC	212	50	106	05.03.17	1	1	0	0	0		
		Mwana	731	799	Bwagaioa HC	605	150	283	05.03.17	1	1	0	0	0		
19	EUAS SOUTH		1,734	1,539		1,616	331	793		5	5	0	0	6		
		Gantatagila	137	139	Bwagaioa HC	175	34	84	05.03.17	1	1	0	0	0		
		Eaus (Palapa)	496	492	Bwagaioa HC	478	94	237	05.03.17	1	1	0	0	1		
		Huwalatuk	454	382	Bwagaioa HC	428	85	208	05.03.17	1	1	0	0	0		
		Gewa	246	183	Bwagaioa HC	181	40	81	05.03.17	1	1	0	0	5		
		Abalouna	401	342	Bwagaioa HC	354	78	183	05.03.17	1	1	0	0	0		
20	GAIBOBO		953	871		1,050	203	511		2	2	0	0	0		
		Gaibobo	548	424	Bwagaioa HC	460	90	217	06.03.17	1	1	0	0	0		
		Alalata	279	447	Bwagaioa HC	590	113	294	06.03.17	1	1	0	0	0		
		Loaga Mission	127	0	Bwagaioa HC											Included under Alalata
21	KIMUTA		671	817		854	169	391		2	2	0	0	0		
		Awa	376	490	Bwagaioa HC	511	94	223	10.03.17	1	1	0	0	0		
		Atuatua	296	327	Bwagaioa HC	343	75	168	10.03.17	1	1	0	0	0		
22	WEST PANAEATI		863	1,002		1,019	222	520		5	5	0	0	1		
		Panakakamwa	182	156	Paneati HC	173	36	86	04.03.17	1	1	0	0	0		
		Namati	317	392	Paneati HC	352	73	185	04.03.17	1	1	0	0	0		
		Miteli	105	137	Paneati HC	137	29	71	04.03.17	1	1	0	0	1		
		Siakeu	161	174	Paneati HC	200	47	100	04.03.17	1	1	0	0	0		

LLG	WARD	Village	Estimated 2017 Data Based On 2000 Census	Estimated 2017 Data Based On 2013 Data	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Villages	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
		Nulia	98	143	Paneati HC	157	37	78	04.03.17	1	1	0	0	0		
23	EAST PANAEATI		1,006	1,131		1,071	225	562		5	4	0	0	1		
		Palualual	299	363	Paneati HC	368	77	192	04.03.17	1	1	0	0	1		
		Maggiu	186	200	Paneati HC	202	39	110	04.03.17	1	1	0	0	0		
		Bwaganait	319	405	Paneati HC	358	77	187	04.03.17	1	1	0	0	0		
		Lebwalebwal	131	163	Paneati HC	143	32	73	04.03.17	1	1	0	0	0		
		East Panaeati Sub H/Cent.	71	0	Paneati HC					1						Included under Bwaganait
24	PANAPOMPOM		583	502		812	181	420		3	3	0	0	1		
		Nulia	230	313	Paneati HC	340	71	168	04.03.17	1	1	0	0	1		
		Galowawaisana	191	189	Paneati HC	231	56	124	04.03.17	1	1	0	0	0		
		Panaewau	162	0	Paneati HC	241	54	128	04.03.17	1	1	0	0	0		
25	BROOKER ISLAND		607	819		643	124	307		3	0	0	0	0		
		Brooker Island	570	819	Paneati HC	643	124	307	08.03.17	1	0	0	0	0		
		Gulewa	20	0	Paneati HC					1						Included under Brooker Island
		Vanaliwa	17	0	Paneati HC					1						Included under Brooker Island
26	MOTORINA NORTH		368	434		501	83	238		1	0	0	0	0		
		Panaewau	368	434	Bwagaioa HC	501	83	238	04.03.17	1	0	0	0	0		
27	MOTORINA SOUTH		279	245		381	48	159		1	0	0	0	0		
		Lalagela	279	245	Bwagaioa HC	381	48	159	04.03.17	1	0	0	0	0		
28	BAGAMAN		286	295		407	80	193		1	0	0	0	0		
		Bagaman	286	295	Bwagaioa HC	407	80	193	05.03.17	1	0	0	0	0		
29	PANAUMARA		512	674		629	117	311		3	0	0	0	0		
		Kuanak	184	257	Bwagaioa HC	316	58	162	07.03.17	1	0	0	0	0		
		Panaumala	198	417	Bwagaioa HC	313	59	149	04.03.17	1	0	0	0	0		
		Nogui	131	0	Bwagaioa HC					1						Included under Kuanak
30	BAIMATANA		351	270		304	81	150		1	1	0	0	0		
		Balmatana	351	270	Bwagaioa HC	304	81	150	05.03.17	1	1	0	0	0		
31	LOBWA		543	538		506	105	242		3	3	0	0	0		
		Uleya	168	44	Bwagaioa HC	93	24	48	06.03.17	1	1	0	0	0		
		Lobwa	262	268	Bwagaioa HC	221	41	97	06.03.17	1	1	0	0	0		
		Lawak	114	225	Bwagaioa HC	192	40	97	06.03.17	1	1	0	0	0		
32	BWANA		151	222		167	50	96		1	1	0	0	0		
		Bwana	151	222	Bwagaioa HC	167	50	96	07.03.17	1	1	0	0	0		
				0						0						
<b>YALEYEMBA RURAL</b>			<b>12,674</b>	<b>14,374</b>		<b>14,804</b>	<b>2,739</b>	<b>7319</b>		<b>77</b>	<b>69</b>	<b>0</b>	<b>0</b>	<b>545</b>	<b>71</b>	
1	SABARA		1,262	1,504		1,362	239	712		1	1	0	0	0		
		Sabara	1,262	1,504	Nimoa HC	1,362	239	712	02.03.17	1	1	0	0	0		Boat
2	GRASS ISLAND		974	1,187		1,155	196	603		5	5	0	0	0		
		Dadahai	37	434	Nimoa HC	158	24	80	28.03.17	1	1	0	0	0		Boat
		Grass Island	438	253	Nimoa HC	460	73	227	28.03.17	1	1	0	0	0		Boat
		Nighau	246	164	Nimoa HC	161	29	86	03.03.17	1	1	0	0	0		Boat
		Hesesai	235	290	Nimoa HC	294	53	162	03.03.17	1	1	0	0	0		Boat
		Hobuk Community School	18	45	Nimoa HC	82	17	48	03.03.17	1	1	0	0	0		Boat
3	NIMOA		790	1,034		880	215	551		7	6	0	0	0		
		Bwailahina	320	412	Nimoa HC					1						Abandoned
		Galanga	286	368	Nimoa HC	250	49	115	05.03.17	1	1	0	0	0		Boat
		Nimoa C/Mission Station	184	255	Nimoa HC	197	37	87	07.03.17	1	1	0	0	0		Boat
		Doholuwana		NEW	Nimoa HC	108	17	53	07.03.17	1	1	0	0	0		New Inclusion
		Junnet		NEW	Nimoa HC	183	85	222	07.03.17	1	1	0	0	0		New Inclusion
		Hebenahine		NEW	Nimoa HC	48	9	25	07.03.17	1	1	0	0	0		New Inclusion
		Bomalou		NEW	Nimoa HC	94	18	49	07.03.17	1	1	0	0	0		New Inclusion
4	WESTERN POINT		595	647		702	127	336		4	4	0	0	0		
		Embabalia	87	223	Nimoa HC	189	35	91	05.03.17	1	1	0	0	0		Boat
		Eden	182	155	Nimoa HC	226	40	116	05.03.17	1	1	0	0	0		Boat
		Western Point	220	189	Nimoa HC	197	35	86	07.03.17	1	1	0	0	0		Boat
		Tagula Station	105	81	Nimoa HC	90	17	43	07.03.17	1	1	0	0	0		Boat
5	GRIFFIN POINT		647	677		825	151	381		6	6	0	0	0		
		Gesila	97	118	Nimoa HC	118	23	59	03.03.17	1	1	0	0	0		Boat
		Mitin	115	272	Nimoa HC	211	44	108	03.03.17	1	1	0	0	0		Boat
		Ebolethi	67	53	Nimoa HC	123	23	57	03.03.17	1	1	0	0	0		Boat
		Edwahi	149	73	Nimoa HC	99	18	42	03.03.17	1	1	0	0	0		Boat
		Tarangia	135	145	Nimoa HC	191	29	75	03.03.17	1	1	0	0	0		Boat
		Griffin Point Community School	84	17	Nimoa HC	83	14	40	03.03.17	1	1	0	0	0		Boat
6	RAMBUSO		798	1,002		959	173	467		5	5	0	0	0		
		Lajamare	127	208	Nimoa HC	197	36	94	02.03.17	1	1	0	0	0		Boat
		East Point (Rossel)	242	342	Nimoa HC	338	67	167	02.03.17	1	1	0	0	0		Boat
		Varavarae	125	203	Nimoa HC	167	27	78	02.03.17	1	1	0	0	0		Boat
		Rambuso Village	266	220	Nimoa HC	197	30	96	02.03.17	1	1	0	0	0		Boat
		Rambuso Community School	38	30	Nimoa HC	60	13	32	02.03.17	1	1	0	0	0		Boat
7	REHUWO		784	883		934	163	406		4	4	0	0	0		
		Buyawe	239	243	Nimoa HC	279	48	125	01.03.17	1	1	0	0	0		Boat
		Bololo	292	370	Nimoa HC	372	65	165	01.03.17	1	1	0	0	0		Boat
		Emeli	185	270	Nimoa HC	262	45	107	01.03.17	1	1	0	0	0		Boat
		Rehuwo community School	68	0	Nimoa HC	21	5	9	01.03.17	1	1	0	0	0		Boat
8	MADAUA		432	435		457	99	232		4	4	0	0	0		
		Madaua	209	232	Nimoa HC	233	50	117	02.03.17	1	1	0	0	0		Boat
		Pamela	111	118	Nimoa HC	102	22	52	02.03.17	1	1	0	0	0		Boat
		Pantava	105	85	Nimoa HC	91	18	43	02.03.17	1	1	0	0	0		Boat
		Madaua Community School	7	0	Nimoa HC	31	9	20	02.03.17	1	1	0	0	0		Boat
9	JELEWAGA		381	389		435	91	220		3	3	0	0	0		
		Jelewaga	216	389	Nimoa HC	315	66	159	04.03.17	1	1	0	0	0		Boat
		Lyen Island	165	0	Nimoa HC	71	17	39	04.03.17	1	1	0	0	0		Boat
		Sapalahau		NEW	Nimoa HC	49	8	22	04.03.17	1	1	0	0	0		New Inclusion
10	DAMUNU		832	947		1,073	170	476		5	3	0	0	96		
		Kark	218	305	Jinjo HC	321	50	140	03.03.17	1	1	0	0	25		Boat
		Damujo	193	183	Jinjo HC					1						Included under Damuno Mssn

LLG	WARD	Village	Estimated 2017 Data Based On 2000 Census	Estimated 2017 Data Based On 2013 Data	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Villages	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
		Biambe	172	30	Jinjo HC					1						Included under Kark
		Yendi	189	31	Jinjo HC	179	27	83	03.03.17	1	1	0	0	25	NBC	Boat
		Damunu Mission	60	398	Jinjo HC	573	93	253	03.03.17	1	1	0	0	46	NBC	Boat
11	MORPA		797	763		949	185	472		4	4	0	0	99		
		Morpa	296	219	Jinjo HC	250	50	128	02.03.17	1	1	0	0	25	NBC	Boat
		Wule Island	100	129	Jinjo HC	185	36	97	02.03.17	1	1	0	0	25	NBC	Boat
		Mbuwo	154	139	Jinjo HC	243	50	120	02.03.17	1	1	0	0	25	NBC	Boat
		longa Bay	248	276	Jinjo HC	271	49	127	02.03.17	1	1	0	0	24	NBC	Boat
12	WULUNGA BAY		609	684		767	126	357		3	2	0	0	37		
		Wulanga Bay	176	210	Jinjo HC	249	41	115	03.03.17	1	1	0	0	20	NBC	Boat
		Pum	269	232	Jinjo HC	518	85	242	03.03.17	1	1	0	0	17	NBC	Boat
		Pwepwo	164	243	Jinjo HC					1						Included under Pum
13	JINJO		1,139	1,327		1,366	236	674		6	6	0	0	136		
		Jinjo	208	270	Jinjo HC	253	43	126	04.03.17	1	1	0	0	35	NBC	Boat
		Pumba	461	502	Jinjo HC	339	55	163	05.03.17	1	1	0	0	25	NBC	Boat
		Cheme	331	460	Jinjo HC	200	32	94	05.03.17	1	1	0	0	16	NBC	Boat
		Jinjo Station	139	94	Jinjo HC	106	21	54	04.03.17	1	1	0	0	18	NBC	Boat
		Kimbekwop		NEW	Jinjo HC	284	50	140	05.03.17	1	1	0	0	25	NBC	New Inclusion
		Joro		NEW	Jinjo HC	184	35	97	05.03.17	1	1	0	0	17	NBC	New Inclusion
14	ABELETI		814	831		812	161	406		5	5	0	0	79		
		Tia	127	143	Jinjo HC	143	27	72	01.03.17	1	1	0	0	13	NBC	
		Mwakpe	97	99	Jinjo HC	90	19	45	01.03.17	1	1	0	0	9	NBC	
		Ngatete	158	170	Jinjo HC	176	30	85	01.03.17	1	1	0	0	15	NBC	
		Ghapa'ambeme	107	128	Jinjo HC	162	35	84	01.03.17	1	1	0	0	17	NBC	
		Piniga	326	290	Jinjo HC	241	50	120	01.03.17	1	1	0	0	25	NBC	
15	N'JARU		657	730		742	155	346		5	4	0	0	86		
		N'Jarua	63	299	Jinjo HC	93	20	41	05.03.17	1	1	0	0	20	NBC	
		Wale	193	0	Jinjo HC	217	45	99	05.03.17	1	1	0	0	22	NBC	
		Wamadaknop	102	179	Jinjo HC	241	49	116	05.03.17	1	1	0	0	24	NBC	
		Wyukwa	255	252	Jinjo HC	191	41	90	05.03.17	1	1	0	0	20	NBC	
		Njaru Community School	44	0	Jinjo HC					1						Included under Wyukwa
16	BUWO		442	464		473	89	243		4	4	0	0	4		
		Buwo	97	108	Jinjo HC	92	20	47	02.03.17	1	1	0	0	1	NBC	
		Araeda	91	119	Jinjo HC	59	14	30	01.03.17	1	1	0	0	1	NBC	
		Jolandan	48	31	Jinjo HC	84	15	41	02.03.17	1	1	0	0	1	NBC	
		Piron Island	206	205	Jinjo HC	238	40	125	05.03.17	1	1	0	0	1	NBC	
17	PAMBWA \ SAMAN		720	871		913	163	437		6	3	0	0	8		
		Pambwa	118	319	Jinjo HC	124	20	61	02.03.17	1	1	0	0	1	NBC	
		Saman	95	238	Jinjo HC	228	41	108	02.03.17	1				6	NBC	
		Dole	147	0	Jinjo HC	86	18	42	02.03.17	1	1	0	0	0	NBC	
		Pemma	270	288	Jinjo HC	312	54	146	02.03.17	1	1	0	0	1	NBC	
		Cheambwa	75	0	Jinjo HC					1						Included under Pambwa
		Pambwa Station	14	25	Jinjo HC	163	30	80	02.03.17	1					NBC	
				0												
<b>MURUA RURAL</b>			<b>9,577</b>	<b>11,343</b>		<b>10,405</b>	<b>2,112</b>	<b>5271</b>		<b>26</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	
1	KULUMADAU		690	999		1,008	179	491		2	1	0	0	0		
		Boiboi	233	329	Guasopa HC	344	62	166	13.02.17	1	1	0	0	0		Access by car
		Kulumadau	457	670	Guasopa HC	664	117	325	13.02.17	1	0	0	0	0		Access by car
2	GUASOPA		953	1,212		1,184	247	607		4	0	0	0	0		
		Guasopa	509	640	Guasopa HC	698	147	362	17.02.17	1	0	0	0	0		Access by car
		Waniked	95	222	Guasopa HC	217	47	109	16.02.17	1	0	0	0	0		Access by car or boat
		Kelau	225	230	Guasopa HC	177	35	89	16.02.17	1	0	0	0	0		Access by car
		Guasopa Station	124	120	Guasopa HC	92	18	47	16.02.17	1	0	0	0	0		Access by car
3	WABUNUNA		767	910		796	177	404		2	0	0	0	0		
		Wabununa	667	699	Guasopa HC	680	150	346	16.02.17	1	0	0	0	0		Access by car
		Oviai	100	211	Guasopa HC	116	27	58	17.02.17	1	0	0	0	0		Access by boat
4	KAVATANA		514	692		702	136	341		2	0	0	0	0		
		Kavatana	287	396	Guasopa HC	348	67	161	16.02.17	1	0	0	0	0		Access by boat
		Mon	226	296	Guasopa HC	354	69	180	16.02.17	1	0	0	0	0		Access by boat
5	KAURAI		451	567		496	109	239		1	1	0	0	0		
		Kauri	451	567	Guasopa HC	496	109	239	13.02.17	1	1	0	0	0		Access by car
6	IWA		1,090	915		740	200	396		1	0	0	0	0		
		Iwa	1,090	915	Guasopa HC	740	200	396	10.02.17	1	0	0	0	0		Access by boat
7	UNUMATANA		478	692		740	126	373		2	0	0	0	0		
		Mapas	148	0	Guasopa HC	289	50	144	14.02.17	1	0	0	0	0		Access by boat
		Unumatana	330	692	Guasopa HC	451	76	229	16.02.17	1	0	0	0	0		Access by car
8	BUDIBUDI		310	359		360	80	181		1	0	0	0	0		
		Budibudi Island	310	359	Guasopa HC	360	80	181	16.02.17	1	0	0	0	0		5hrs from Guasopa Hc
9	IANABA		430	492		519	84	260		2	0	0	0	0		
		Egom	178	224	Guasopa HC	170	34	83	06.02.17	1	0	0	0	0		4hrs from Alcester
		Ianaba	252	268	Guasopa HC	349	50	177	07.02.17	1	0	0	0	0		30mins from Egom
10	GAWA ISLAND		1,191	1,021		430	95	250		1	0	0	0	0		
		Gawa	1,191	1,021	Guasopa HC	430	95	250	11.02.17	1	0	0	0	0		5hrs from Boiboi
11	KAUWAI		404	704		796	169	390		1	0	0	0	0		
		Kauwai	404	704	Guasopa HC	796	169	390	12.02.17	1	0	0	0	0		Access by boat or car
12	MADAU		691	756		803	144	420		2	0	0	0	0		
		Boagis	253	227	Guasopa HC	253	44	126	15.02.17	1	0	0	0	0		Access by boat
		Madau	438	529	Guasopa HC	550	100	294	16.02.17	1	0	0	0	0		Access by boat
13	DIKOIAS		270	328		338	74	168		1	1	0	0	0		
		Dikoias	270	328	Guasopa HC	338	74	168	14.02.17	1	1	0	0	0		Access by car
14	KWAIWATTA		552	715		376	92	187		1	0	0	0	0		
		Kwaiwatta	552	715	Guasopa HC	376	92	187	11.02.17	1	0	0	0	0		3hrs from Boiboi
15	MUNEIVEYOYA		390	448		551	100	281		1	0	0	0	0		
		Muneiveyoya	390	448	Guasopa HC	551	100	281	13.02.17	1	0	0	0	0		Access by boat
16	OYAVATA		265	306		319	56	160		1	0	0	0	0		
		Oyavata	265	306	Guasopa HC	319	56	160	17.02.17	1	0	0	0	0		Access by car
17	ALCESTER		132	226		247	44	123		1	0	0	0	0		
		Alcester	132	226	Guasopa HC	247	44	123	07.02.17	1	0	0	0	0		3hrs from Boiboi

## ANNEX FOUR

MILNE BAY PROVINCE  
LLIN DISTRIBUTION SUMMARY SHEET

LLG	WARD	Villages	Estimated 2017 Population Based On 2000 Census	Estimated 2017 Data Based On 2013 Data	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Villages	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment	
<b>KIRIWINA - GOODENOUGH</b>			<b>84,340</b>	<b>77,365</b>		<b>78,587</b>	<b>16,077</b>	<b>37,817</b>			<b>159</b>	<b>91</b>	<b>0</b>	<b>0</b>	<b>549</b>	<b>16</b>	
<b>KIRIWINA RURAL</b>			<b>48,586</b>	<b>44,693</b>		<b>44,430</b>	<b>9,671</b>	<b>21,911</b>			<b>100</b>	<b>88</b>	<b>0</b>	<b>0</b>	<b>373</b>	<b>0</b>	
1	KAIBOLA		1,079	913		984	265	484		4	4	0	0	0			
		Idaleka	74	0	Omorakana HC	111	34	53	24.03.17	1	1	0	0	0			Road
		Kaibola	395	455	Omorakana HC	485	131	240	24.03.17	1	1	0	0	0			Road
		Luebila	268	221	Omorakana HC	186	50	91	24.03.17	1	1	0	0	0			Road
		Kapwani	267	237	Omorakana HC	202	50	100	24.03.17	1	1	0	0	0			Road
		Kaibola Com. School	74	0	Omorakana HC												Included in Kaibola
2	MWATAWA		1,269	1,203		1,220	365	596		2	2	0	0	0			
		Labai	397	392	Omorakana HC	419	131	208	25.03.17	1	1	0	0	0			Road
		Mwatawa	873	811	Omorakana HC	801	234	388	25.03.17	1	1	0	0	0			Road
3	TUBOWADA		1,435	1,396		1,335	325	655		3	3	0	0	0			
		Bwetavaya	388	359	Omorakana HC	346	99	166	24.05.17	1	1	0	0	0			Road
		Kaurikwau	408	419	Omorakana HC	443	100	214	24.03.17	1	1	0	0	0			Road
		Tubowada	638	618	Omorakana HC	546	126	275	24.03.17	1	1	0	0	0			Road
4	DAIAGUAL		861	614		596	140	292		3	3	0	0	0			
		Dayagila	397	260	Omorakana HC	195	41	96	27.03.17	1	1	0	0	0			Road
		Tavayavela	246	163	Omorakana HC	202	49	99	27.03.17	1	1	0	0	0			Road
		KaduKabilia	218	190	Omorakana HC	199	50	97	27.03.17	1	1	0	0	0			Road
5	LILUTA		2,478	2,099		2,157	563	1,056		5	5	0	0	0			
		Liluta	836	689	Omorakana HC	611	150	294	25.03.17	1	1	0	0	0			Road
		Iuwada	317	341	Omorakana HC	294	77	145	25.03.17	1	1	0	0	0			Road
		Osapola	267	174	Omorakana HC	335	92	165	26.03.17	1	1	0	0	0			Road
		Kaemwawala	181	173	Omorakana HC	197	50	96	26.03.17	1	1	0	0	0			Road
		Mutawa	878	722	Omorakana HC	720	194	356	25.03.17	1	1	0	0	0			Road
6	KWAIBWAGA		1,276	1,104		1,038	292	516		2	2	0	0	0			
		Kabulula	361	501	Omorakana HC	288	92	147	27.03.17	1	1	0	0	0			Road
		Kwaibwaga	915	603	Omorakana HC	750	200	369	27.03.17	1	1	0	0	0			Road
7	OMARAKANA		1,782	1,706		1,649	530	899		6	6	0	0	0			
		Kaulagu	120	153	Omorakana HC	148	50	89	27.03.17	1	1	0	0	0			Road
		Omarakana	599	687	Omorakana HC	561	180	304	27.03.17	1	1	0	0	0			Road
		Tilakewa	252	339	Omorakana HC	327	100	178	27.03.17	1	1	0	0	0			Road
		Youlaotu	473	281	Omorakana HC	312	100	163	27.03.17	1	1	0	0	0			Road
		Wakeluvu	142	108	Omorakana HC	145	50	77	27.03.17	1	1	0	0	0			Road
		Wakesa	149	138	Omorakana HC	156	50	88	27.03.17	1	1	0	0	0			Road
		Omarakana Pri Schl	49	0	Omorakana HC												included in Omarakana
8	KABWAKU		1,143	1,057		1,025	300	531		1	1	0	0	0			
		Kabwaku	1,143	1,057	Omorakana HC	1,025	300	531	27.03.17	1	1	0	0	0			Road
9	OKAIKODA		1,441	1,297		1,258	330	637		4	4	0	0	0			
		Obowada	170	311	Omorakana HC	316	98	167	27.03.17	1	1	0	0	0			Road
		Okaikoda	587	496	Omorakana HC	377	96	186	27.03.17	1	1	0	0	0			Road
		Walesi	684	490	Omorakana HC	328	87	162	27.03.17	1	1	0	0	0			Road
		Wapipi catholic msn		NEW	Omorakana HC	237	49	122	27.03.17	1	1	0	0	0			Road
10	YALUMGWA		1,874	1,614		2,020	519	963		4	4	0	0	0			
		Moligilagi/Wabiri	414	413	Omorakana HC	382	100	182	27.03.17	1	1	0	0	0			Road
		Obwelia	760	600	Omorakana HC	740	200	348	27.03.17	1	1	0	0	0			Road
		Yalumgwa	700	600	Omorakana HC	641	150	307	27.03.17	1	1	0	0	0			Road
		Bawai		NEW	Omorakana HC	257	69	126	27.03.17	1	1	0	0	0			Road
11	KURUVITU		1,335	1,182		1,217	243	602		4	4	0	0	10			
		Giligali	186	208	Lousia HC	240	43	118	23.03.17	1	1	0	0	0			Road
		Kuruvitu	587	469	Lousia HC	403	83	197	23.03.17	1	1	0	0	8			Road
		Libutuma	417	368	Lousia HC	407	81	203	23.03.17	1	1	0	0	2			Road
		Waiakiki	145	138	Lousia HC	167	36	84	23.03.17	1	1	0	0	0			Road
12	YALAKA		1,710	1,386		1,346	252	661		3	3	0	0	25			
		Buduwelaka	358	255	Lousia HC	221	37	110	23.03.17	1	1	0	0	0			Road
		Kuluwa	214	253	Lousia HC	272	50	130	23.03.17	1	1	0	0	3			Road
		Yalaka	1,138	879	Lousia HC	853	165	421	23.03.17	1	1	0	0	22			Road
13	WABUTUMA		1,258	1,188		1,128	230	553		2	2	0	0	41			
		Luya	668	510	Lousia HC	596	99	292	23.03.17	1	1	0	0	0			Road
		Wabutuma	589	678	Lousia HC	532	131	261	23.03.17	1	1	0	0	41			Road
14	BOTALU		1,639	1,673		1,737	296	845		3	3	0	0	19			
		Boitalu	744	691	Lousia HC	670	124	326	24.03.17	1	1	0	0	19			Road
		Lobua	592	510	Lousia HC	683	107	332	24.03.17	1	1	0	0	0			Road
		Siviagila	302	472	Lousia HC	384	65	187	24.03.17	1	1	0	0	0			Road
15	GUMILABABA		3,145	2,607		2,541	515	1,264		6	6	0	0	8			
		Gumilababa	1,063	924	Lousia HC	885	178	445	27.03.17	1	1	0	0	1			Road
		Gameta	306	237	Lousia HC	224	50	110	27.03.17	1	1	0	0	0			Road
		Kwemtula	425	244	Lousia HC	333	71	165	27.03.17	1	1	0	0	3			Road
		Napanapa	495	426	Lousia HC	353	77	176	27.03.17	1	1	0	0	0			Road
		Wasaisuia	299	220	Lousia HC	279	60	139	27.03.17	1	1	0	0	1			Road
		Lousia Govt. Station	557	556	Lousia HC	467	79	229	27.03.17	1	1	0	0	3			Road
16	KAPWAPU		851	787		848	149	417		2	2	0	0	3			
		Kapwapu	572	238	Lousia HC	275	50	135	27.03.17	1	1	0	0	2			Road
		Kudukwakela	279	549	Lousia HC	573	99	282	27.03.17	1	1	0	0	1			Road
17	KAVATARIA		1,622	1,592		1,578	250	780		1	1	0	0	0			
		Kavataria	1,622	1,592	Lousia HC	1,578	250	780	25.03.17	1	1	0	0	0			Road
18	MULOSAIDA		1,193	999		1,111	210	549		2	2	0	0	48			
		Moulosaida	738	543	Lousia HC	636	120	316	25.03.17	1	1	0	0	0			Road
		Orabesi	456	456	Lousia HC	475	90	233	25.03.17	1	1	0	0	48			Road
19	OIVEYOVA		1,463	1,428		1,464	272	720		2	2	0	0	25			
		Teyava	486	378	Lousia HC	469	77	230	27.03.17	1	1	0	0	1			Road
		Oiveyova	977	1,051	Lousia HC	995	195	490	27.03.17	1	1	0	0	24			Road

LLG	WARD	Villages	Estimated 2017 Population Based On 2000 Census	Estimated 2017 Data Based On 2013 Data	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Villages	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
20	TUKWAUKWA		1,426	1,173		1,233	217	608		1	1	0	0	6		
		Tukwaukwa	1,426	1,173	Lousia HC	1,233	217	608	27.03.17	1	1	0	0	6		Road
21	OKAIBOMA		2,103	2,122		1,984	377	975		4	4	0	0	33		
		Okaiboma	731	657	Lousia HC	517	97	254	28.03.17	1	1	0	0	7		Road
		Okupukopu	798	878	Lousia HC	819	158	402	28.03.17	1	1	0	0	9		Road
		Olivilevi	537	559	Lousia HC	541	99	266	28.03.17	1	1	0	0	11		Road
		Okaiboma Com. School	37	29	Lousia HC	107	23	53	28.03.17	1	1	0	0	6		Road
22	ILALIMA		1,337	1,275		1,283	246	648		3	3	0	0	0		
		Ilalima	565	485	Lousia HC	493	96	251	28.03.17	1	1	0	0	0		Road
		Osapola	349	393	Lousia HC	405	79	200	28.03.17	1	1	0	0	0		Road
		Kaituvi	422	397	Lousia HC	385	71	197	28.03.17	1	1	0	0	0		Road
23	OBULAKU		1,065	1,097		970	201	485		4	4	0	0	44		
		Obulaku	476	523	Lousia HC	426	84	215	28.03.17	1	1	0	0	22		Road
		Wawela	265	295	Lousia HC	244	50	121	28.03.17	1	1	0	0	0		Road
		Kwabula	292	279	Lousia HC	271	61	134	28.03.17	1	1	0	0	17		Road
		Obulaku Com. School	32	0	Lousia HC	29	6	15	28.03.17	1	1	0	0	5		Road
24	SINAKETA		1,357	1,449		1,478	262	729		3	3	0	0	4		
		Sinaketa	365	470	Lousia HC	907	148	448	29.03.17	1	1	0	0	4		Road
		Kumilabwaga	506	509	Lousia HC	521	103	255	29.03.17	1	1	0	0	0		Road
		Kaulasi	486	470	Lousia HC	50	11	26	29.03.17	1	1	0	0	0		Road
25	LOYA		1,119	1,269		1,213	214	597		2	2	0	0	0		
		Loya	635	716	Lousia HC	682	123	336	29.03.17	1	1	0	0	0		Road
		Okayaula	484	553	Lousia HC	531	91	261	29.03.17	1	1	0	0	0		Road
26	VAKUTA		1,799	1,714		1,703	326	852		4	0	0	0	1		
		Vakuta	868	820	Lousia HC	770	146	390	29.03.17	1	0	0	0	0		Boat
		Kaulaka	479	522	Lousia HC	553	100	275	29.03.17	1	0	0	0	1		Boat
		Okinai	290	248	Lousia HC	232	45	114	29.03.17	1	0	0	0	0		Boat
		Glibwa	162	124	Lousia HC	148	35	73	29.03.17	1	0	0	0	0		Boat
27	KUMWAGEA		913	694		680	181	318		2	2	0	0	0		
		Kumwagea	841	652	Kitava HC	503	140	238	29.03.17	1	1	0	0	0		Boat
		Kitava Com. School	73	42	Kitava HC	177	41	80	29.03.17	1	1	0	0	0		Boat
28	LALELA		1,614	1,247		1,146	282	538		4	4	0	0	0		
		Lalela	1,183	878	Kitava HC	813	188	366	29.03.17	1	1	0	0	0		Boat
		Lalakewa	253	174	Kitava HC	164	50	91	29.03.17	1	1	0	0	0		Boat
		Taregasi	96	195	Kitava HC	81	20	38	29.03.17	1	1	0	0	0		Boat
		Kimutu	81	0	Kitava HC	88	24	43	29.03.17	1	1	0	0	0		Boat
29	OKABULULA		2,382	2,082		2,001	442	898		6	6	0	0	0		
		Okabulula 1	1,794	1,499	Kitava HC	484	100	220	29.03.17	1	1	0	0	0		Boat
		Okabulula 2		NEW	Kitava HC	443	100	213	29.03.17	1	1	0	0	0		
		Okabulula 3		NEW	Kitava HC	401	94	176	29.03.17	1	1	0	0	0		
		Wapaya	368	366	Kitava HC	348	82	155	29.03.17	1	1	0	0	0		Boat
		Kudeuli	186	216	Kitava HC	144	30	58	29.03.17	1	1	0	0	0		Boat
		Okabululu Com. School	34	0	Kitava HC	181	36	76	29.03.17	1	1	0	0	0		Boat
30	KADUWAGA		1,683	1,878		1,475	292	734		2	0	0	0	28		
		Kaduwaga	1,089	998	Lousia HC	875	176	431	30.03.17	1	0	0	0	5		Boat
		Tawema	594	880	Lousia HC	600	116	303	30.03.17	1	0	0	0	23		Boat
31	KOMA		1,538	1,529		1,762	318	873		3	0	0	0	71		
		Giva	371	456	Lousia HC	505	99	248	30.03.17	1	0	0	0	6		Boat
		Koma	476	557	Lousia HC	595	94	294	30.03.17	1	0	0	0	0		Boat
		Kaisiga	690	515	Lousia HC	662	125	331	30.03.17	1	0	0	0	65		Boat
32	KUYAWA		906	829		805	171	406		1	0	0	0	7		
		Kuyawa	906	829	Lousia HC	805	171	406	30.03.17	1	0	0	0	7		Boat
33	SIMSIMLA		490	488		445	96	230		2	0	0	0	0		
		Kawa Island	279	241	Lousia HC	267	56	131	31.03.17	1	0	0	0	0		Boat
		Konia	211	247	Lousia HC	178	40	99	31.03.17	1	0	0	0	0		Boat
				0												
<b>GOODENOUGH ISLAND RURAL</b>			<b>35,754</b>	<b>32,672</b>		<b>34,157</b>	<b>6,406</b>	<b>15,906</b>		<b>59</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>176</b>	<b>16</b>	
1	WAIBULA		358	387		409	72	19		1	0	0	0	4		
		Waibula	358	387	Watuluma HC	409	72	19	30-31.03.17	1	0	0	0	4		Boat
2	UFAUFA		1,516	1,443		1,530	229	735		2	0	0	0	0		
		Ufaufa	812	1,030	Watuluma HC	1,174	169	564	31-01.04.17	1	0	0	0	0		Boat
		Mwananaoy	704	413	Watuluma HC	356	60	171	31-01.04.17	1	0	0	0	0		Boat
3	WATULUMA SOUTH		1,156	1,021		1,073	215	533		2	0	0	0	0		
		Sivesive	663	721	Watuluma HC	732	148	356	29.03.17	1	0	0	0	0		Road
		Watuluma Mission	493	300	Watuluma HC	341	67	177	29.03.17	1	0	0	0	0		Road
4	WATULUMA NORTH		807	705		728	129	355		1	0	0	0	0		
		Upper Watuluma	807	705	Watuluma HC	728	129	355	31.03.17	1	0	0	0	0		Road
5	IDAKAMENAI		1,249	1,165		1,206	235	572		2	0	0	0	0		
		Idakamenai	945	886	Watuluma HC	887	172	419	01.04.17	1	0	0	0	0		Road
		Afalulua	304	278	Watuluma HC	319	63	153	29.03.17	1	0	0	0	0		Road
6	ULUTUYA		1,414	1,448		1,456	287	684		2	0	0	0	0		
		Lakulakuya	795	895	Watuluma HC	849	181	396	28.03.17	1	0	0	0	0		Road
		Ulutuya	618	553	Watuluma HC	607	106	288	28.03.17	1	0	0	0	0		Road
7	WAKONAI		922	870		784	156	374		2	0	0	0	0		
		Wakonai	495	438	Bolubolu HC	440	86	208	24.03.17	1	0	0	0	0		Road
		Galuwata	427	432	Bolubolu HC	344	70	166	24.03.17	1	0	0	0	0		Road / Trek
8	VIVIGANI		1,355	779		1,441	289	683		4	0	0	0	0		
		Vivigani	267	262	Bolubolu HC	317	64	148	23-24.03.17	1	0	0	0	0		Road
		Kwayokwayo	290	262	Bolubolu HC	299	76	144	23.03.17	1	0	0	0	0		Road
		Bwetubwetuna	235	0	Bolubolu HC	295	50	140	24.03.17	1	0	0	0	0		Road
		Vivila	564	256	Bolubolu HC	530	99	251	24.03.17	1	0	0	0	0		Road
9	EWELI		1,158	1,087		1,038	229	485		1	0	0	0	0		
		Eveli	1,158	1,087	Bolubolu HC	1,038	229	485	23-24.03.17	1	0	0	0	0		Road
10	KALAUNA		1,465	1,361		1,401	298	674		1	0	0	0	0		
		Kalauna	1,465	1,361	Bolubolu HC	1,401	298	674	22-23.03.17	1	0	0	0	0		Road
11	BELEBELE		1,144	1,022		1,116	248	529		2	0	0	0	0		
		Kalauna	652	461	Bolubolu HC	551	130	262	23-25.03.17	1	0	0	0	0		Road

LLG	WARD	Villages	Estimated 2017 Population Based On 2000 Census	Estimated 2017 Data Based On 2013 Data	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Villages	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
		Belebele	493	561	Bolubolu HC	565	118	267	23-25.03.17	1	0	0	0	0		Road
12	MATAITA WEST		1,818	1,881		1,898	402	865		3	2	0	0	0		
		Eloelolona	1,818	1,881	Bolubolu HC	1,121	235	518	27-28.03.17	1	1	0	0	0		Boat
		Kenani		NEW	Bolubolu HC	459	100	204	27-28.03.17	1		0	0			Boat
		Galasea		NEW	Bolubolu HC	318	67	143	27-28.03.17	1	1	0	0	0		Boat
13	MATAITA EAST		618	504		577	89	278		1	1	0	0	0		
		Maitaita East	618	504	Bolubolu HC	577	89	278	22.03.17	1	1	0	0	0		Road
14	FAIAVA		1,744	1,584		1,719	334	865		2	0	0	0	7		
		Faiava 1	1,744	1,584	Wailagi HC	948	200	470	25.3.17	1	0	0	0	6		Boat
		Faiava 2		NEW	Wailagi HC	771	134	395	25.3.17	1	0	0	0	1		
15	UFUFU		1,961	1,806		1,853	292	880		3	0	0	0	0		
		Ufufu	954	818	Wailagi HC	852	109	395	25.3.17	1	0	0	0	0		Boat
		Gunuwala	456	487	Wailagi HC	483	87	228	25.3.17	1	0	0	0	0		Boat
		Bowa	552	501	Wailagi HC	518	96	257	25.3.17	1	0	0	0	0		Boat
16	BWADOGA EAST		2,233	1,975		1,868	400	878		4	0	0	0	13		
		Waikiwala	2,233	1,975	Wailagi HC	393	100	207	25.3.17	1	0	0	0	1		Boat
		Nikoko		NEW	Wailagi HC	526	100	241	25.3.17	1	0	0	0	2		
		Kabuna		NEW	Wailagi HC	502	100	212	25.3.17	1	0	0	0	0		
		Auligana		NEW	Wailagi HC	447	100	218	25.3.17	1	0	0	0	10		
17	BWADOGA WEST		938	900		874	195	415		2	0	0	0	4		
		Banada	834	784	Wailagi HC	682	150	324	25.3.17	1	0	0	0	4		Boat
		Wailagi Mission	105	116	Wailagi HC	192	45	91	26.3.17	1	0	0	0	0		Boat
18	WAGIFA		1,536	1,606		1,615	279	719		2	0	0	0	4		
		Wagifa Island		NEW	Wailagi HC	862	150	367	26.3.17	1	0	0	0	2		
		Aubaba	1,536	1,606	Wailagi HC	753	129	352	26.3.17	1	0	0	0	2		Boat
19	ABOLU		1,409	1,357		738	145	344		1	0	0	0	2		
		Abolu	1,409	1,357	Wailagi HC	738	145	344	26.3.17	1	0	0	0	2		
20	KILIA		1,987	1,830		2,233	439	998		4	0	0	0	27		
		Kilia	1,987	1,830	Moratau HC	726	145	322	19.3.17	1	0	0	0	8	MBFM	Boat
		Midian		NEW	Moratau HC	699	144	318	19.3.17	1	0	0	0	10	MBFM	
		Umaima		NEW	Moratau HC	492	100	220	19.3.17	1	0	0	0	9	MBFM	
		Cakawauau		NEW	Moratau HC	316	50	138	19.3.17	1	0	0	0	0	MBFM	
21	LAUWELA		1,835	1,349		1,734	275	779		4	0	0	0	49		
		Lauwela	1,835	1,349	Moratau HC	536	92	239	19.3.17	1	0	0	0	43	MBFM	Boat
		Goyala		NEW	Moratau HC	558	86	255	19.3.17	1	0	0	0	3	MBFM	
		Nakaweta		NEW	Moratau HC	320	50	143	19.3.17	1	0	0	0	0	MBFM	
		Negelila		NEW	Moratau HC	320	47	142	19.3.17	1	0	0	0	3	MBFM	
22	AWALE		852	734		735	144	357		2	0	0	0	1		
		Awale	852	734	Moratau HC	357	69	174	18.3.17	1	0	0	0	1	MBFM	Boat
		Ukobala		NEW	Moratau HC	378	75	183	18.3.17	1	0	0	0	0	MBFM	
23	UTALO		1,406	1,312		1,265	200	608		3	0	0	0	9		
		Kaliwauto	1,406	1,312	Moratau HC	565	100	273	18.3.17	1	0	0	0	9	MBFM	Boat
		Molawe		NEW	Moratau HC	348	50	167	18.3.17	1	0	0	0	0	MBFM	
		Lomenai		NEW	Moratau HC	352	50	168	18.3.17	1	0	0	0	0	MBFM	
24	DIODIO		1,737	1,706		1,928	353	896		2	0	0	0	49		
		Diodio 1	1,737	1,706	Moratau HC	1,199	214	557	17.3.17	1	0	0	0	39	MBFM	Boat
		Diodio 2		NEW	Moratau HC	729	139	339	17.3.17	1	0	0	0	10	MBFM	
25	YAUYAULA		473	501		544	81	253		1	0	0	0	7		
		Yauyaula	473	501	Moratau HC	544	81	253	16.3.17	1	0	0	0	7	MBFM	Boat
26	AWAIA		906	710		741	137	345		2	0	0	0	0		
		Awaia/Gayama	410	355	Bolubolu HC	282	57	135	28.03.17	1	0	0	0	0		Road
		Bolubolu	496	354	Bolubolu HC	459	80	210	28.03.17	1	0	0	0	0		Road
27	IBAWANA		776	729		632	124	316		1	0	0	0	0		
		Ibawana	776	729	Watuluma HC	632	124	316	03.04.17	1	0	0	0	0		Trek (2 hours / 30 mins)
28	KALIMTABOTABO		979	900		1,021	130	467		2	0	0	0	0		
		Hiyavali	979	900	Watuluma HC	742	83	337	24.03.17	1	0	0	0	0		Road
		Buluwa		NEW	Watuluma HC	279	47	130	25.03.17	1	0	0	0	0		Road

## ANNEX FIVE

MILNE BAY PROVINCE  
LLIN DISTRIBUTION SUMMARY SHEET

LLG	WARD	Village	Estimated 2017 Data Based On 2000 Census	Estimated 2017 Data Based On 2013 Data	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Villages	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
<b>ESA * ALA</b>			<b>63,613</b>	<b>63,168</b>		<b>36,974</b>	<b>7,425</b>	<b>17,635</b>		<b>56</b>	<b>46</b>	<b>0</b>	<b>0</b>	<b>403</b>	<b>31</b>	
<b>WEST FERGUSON RURAL</b>			<b>16,695</b>	<b>16,895</b>		<b>17,290</b>	<b>3,522</b>	<b>8,238</b>		<b>26</b>	<b>22</b>	<b>0</b>	<b>0</b>	<b>238</b>	<b>21</b>	
1	FAYAYANA		816	799		919	178	439		1	1	0	0	24		Boat/Trek
		Fayayana	816	799	Mapex HC	919	178	439	28.03.17	1	1	0	0	24	Kula FM	
2	AILULUI		955	959		951	199	461		1	1	0	0	18		
		Ailuluai	955	959	Mapex HC	951	199	461	28.03.17	1	1	0	0	18	Kula FM	Boat
3	UKEOKEO		1,174	724		983	187	426		1	1	0	0	3		Boat
		Ukeokeo	1,174	724	Mapex HC	983	187	426	27.03.17	1	1	0	0	3	Kula FM	
4	TOAGESI		635	767		704	138	331		1	1	0	0	16		
		Toagesi	635	767	Mapex HC	704	138	331	27.03.17	1	1	0	0	16	Kula FM	Boat
5	IGWAGETA		415	481		472	110	234		1	1	0	0	5		
		Igwageta	415	481	Mapex HC	472	110	234	27.03.17	1	1	0	0	5	Kula FM	Boat
6	KUKUYA		555	552		406	101	240		1	1	0	0	9		
		Kukuya	555	552	Mapex HC	406	101	240	26.03.17	1	1	0	0	9	Kula FM	Boat
7	IBWANANIU		774	663		626	150	305		1	1	0	0	5		
		Ibwanani	774	663	Mapex HC	626	150	305	26.03.17	1	1	0	0	5	Kula FM	Boat
8	MAPAMOIWA		891	1,023		977	223	498		1	1	0	0	5		
		Mapamoiwa	891	1,023	Mapex HC	977	223	498	26.03.17	1	1	0	0	5	Kula FM	Boat
		Mapamoiwa Station	215	0	Mapex HC											Included under Mapamoiwa
9	FAGULULU		840	1,016		949	217	424		1	0	0	0	2		
		Fagululu	840	1,016	Mapex HC	949	217	424	30.03.17	1	0	0	0	2	Kula FM	Boat/Trek
10	IAMALELE SOUTH		868	937		1,077	189	522		1	0	0	0	8		
		Imalele No. 1(South)	868	937	Kalox HC	1,077	189	522	25.03.17	1	0	0	0	8	Kula FM	Boat/4-5 hours trek
11	IAMALELE NORTH		430	534		614	115	285		1	0	0	0	10		
		Imalele No. 2(North)	430	534	Kalox HC	614	115	285	25.03.17	1	0	0	0	10	Kula FM	Boat/4-5 hours trek
12	GEWATA		516	459		625	144	298		1	1	0	0	7		
		Gewata	516	459	Kalox HC	625	144	298	20.03.17	1	1	0	0	7	Kula FM	Boat/1-2 hours trek
13	SAIBUTU		598	514		574	105	277		1	1	0	0	13		
		Saibutu	598	514	Kalox HC	574	105	277	25.03.17	1	1	0	0	13		Boat/6-7 hours trek
14	NIUBUO		288	404		402	83	181		1	1	0	0	0		
		Niubuo	288	404	Mapex HC	402	83	181	01.04.17	1	1	0	0	0		Boat
15	EBADIDI		322	376		252	44	124		1	1	0	0	0		
		Ebadidi	322	376	Mapex HC	252	44	124	03-04.04.17	1	1	0	0	0		Boat
16	TUTUBEA		230	291		189	39	72		1	1	0	0	0		
		Tutubea	230	291	Mapex HC	189	39	72	3-4.04.17	1	1	0	0	0		Boat
17	BWAYOBWAYO		383	416		485	106	184		1	1	0	0	0		
		Bwayobwayo	383	416	Mapex HC	485	106	184	03.04.17	1	1	0	0	0		Boat
18	MASIMASI		550	474		591	104	277		1	1	0	0	6		
		Masimasi	550	474	Kalox HC	591	104	277	19.03.17	1	1	0	0	6	Kula FM	Boat
19	GWABEGWABE		497	447		464	97	226		1	1	0	0	2		
		Gwabegwabe	497	447	Kalox HC	464	97	226	19.03.17	1	1	0	0	2	Kula FM	Boat
20	ATUGAMWANA		342	354		384	69	181		1	1	0	0	13		
		Atugamwana	342	354	Kalox HC	384	69	181	19.03.17	1	1	0	0	13	Kula FM	Boat
21	AGEALUMA		345	380		344	61	186		1	1	0	0	7		
		Agealuma	345	380	Kalox HC	344	61	186	19.03.17	1	1	0	0	7	Kula FM	Boat
22	DIDIAU		1,046	848		863	174	420		2	2	0	0	17		
		Didiau	1,046	848	Kalox HC	440	87	203	17.03.17	1	1	0	0	2	Kula FM	Boat
		Wapolu		NEW	Kalox HC	423	87	217	17.03.17	1	1	0	0	15	Kula FM	Boat/Trek
23	KALOKALO		2,060	2,244		2,246	428	1,076		1	1	0	0	64		
		Kalokalo	2,060	2,244	Kalox HC	2,246	428	1,076	17.03.17	1	1	0	0	64	Kula FM	Boat
24	FATAVI		635	744		684	148	321		1	0	0	0	1		
		Fatavi	635	744	Kalox HC	684	148	321	18.03.17	1	0	0	0	1	Kula FM	Boat
25	IAUPOLU		531	487		509	113	250		1	1	0	0	3		
		Iaupolu	531	487	Mapex HC	509	113	250	25.03.17	1	1	0	0	3	Kula FM	Boat/Trek
				0												
<b>DOBU RURAL</b>			<b>26,826</b>	<b>27,656</b>		<b>28,269</b>	<b>5,655</b>	<b>13,841</b>		<b>39</b>	<b>35</b>	<b>0</b>	<b>0</b>	<b>153</b>	<b>20</b>	
1	MAIABARI		430	557		567	122	276		1	0	0	0	0		
		Maiabari	430	557	Ulisalalo HC	567	122	276	04.04.17	1	0	0	0	0	NBC	45mins from the HC
2	BWAKIRA		1,468	1,330		1,691	334	814		1	0	0	0	14		
		Bwakera	1,468	1,330	Ulisalalo HC	1,691	334	814	04.04.17	1	0	0	0	14	NBC	25mins from Ulisalalo HC
3	KORUWEA		892	1,070		935	200	443		1	0	0	0	17		
		Koruwea	892	1,070	Ulisalalo HC	935	200	443	06.04.17	1	0	0	0	17	NBC	5mins from the HC
4	YO ' O		707	775		714	150	346		1	1	0	0	10		
		Yo'o	707	775	Ulisalalo HC	714	150	346	06.04.17	1	1	0	0	10	NBC	20mins from the HC
5	TAULA		1,125	1,049		1,147	243	555		1	1	0	0	4		
		Taula	1,125	1,049	Ess'ala HC	1,147	243	555	03.04.17	1	1	0	0	4	NBC	5mins from the HC
6	SISIANA		1,337	1,266		1,412	272	713		2	2	0	0	36		
		Sisiana	1,337	1,266	Ess'ala HC	1,412	272	713		2	2	0	0	36		
		Ess'ala Govt.Station	409	483	Ess'ala HC	669	134	353	01.04.17	1	1	0	0	32	NBC	10mins from the HC
7	MIADEBA		509	587		548	89	266		1	1	0	0	1		
		Miadeba	509	587	Ess'ala HC	548	89	266	02.04.17	1	1	0	0	1	NBC	25mins from Ess,ala HC
8	DARUBIA		653	699		685	150	331		1	1	0	0	1		
		Darubia	653	699	Ess'ala HC	685	150	331	02.04.17	1	1	0	0	1	NBC	45mins from the HC
9	KENAIA		795	711		820	164	395		1	1	0	0	6		
		Keniaia	795	711	Ess'ala HC	820	164	395	03.04.17	1	1	0	0	6	NBC	15mins from Ess,ala HC
10	BUDUWAGULA		1,141	1,208		923	188	439		1	1	0	0	13		
		Buduwagula	1,141	1,208	Ess'ala HC	923	188	439	03.04.17	1	1	0	0	13	NBC	5mins from the HC
11	NADE		970	821		955	175	470		1	1	0	0	0		
		Nade	970	821	Salamo HC	955	175	470	06.04.17	1	1	0	0	0		Access by dingi/trek from Salamo HC
12	SI' ILUGU		917	914		944	174	461		1	1	0	0	0		
		Si'ilugu	917	914	Salamo HC	944	174	461	06.04.17	1	1	0	0	0		Trek

LLG	WARD	Village	Estimated 2017 Data Based On 2000 Census	Estimated 2017 Data Based On 2013 Data	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Villages	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
13	WESOLIWE		72	111		104	25	53		1	1	0	0	0		
		Wesoliwe	72	111	Salamo HC	104	25	53	09.04.17	1	1	0	0	0		Trek
14	GALUBWA		835	1,115		1,073	230	545		1	1	0	0	0		
		Galubwa	835	1,115	Salamo HC	1,073	230	545	06.04.17	1	1	0	0	0		Trek
15	NEBOLUWA		418	469		515	123	254		1	1	0	0	0		
		Neboluwa	418	469	Salamo HC	515	123	254	06.04.17	1	1	0	0	0		Trek
16	SALAMO		722	603		580	111	290		1	1	0	0	0		
		Salamo	722	603	Salamo HC	580	111	290	05.04.17	1	1	0	0	0		Station
17	GOMWA		583	620		592	128	312		1	1	0	0	0		
		Gomwa	583	620	Salamo HC	592	128	312	07.04.17	1	1	0	0	0		Trek
18	BEGASI		461	437		472	92	229		1	1	0	0	0		
		Begasi	461	437	Salamo HC	472	92	229	08.04.17	1	1	0	0	0		Trek
19	DU ' UNA		561	532		391	94	174		1	1	0	0	0		
		Du'una	561	532	Salamo HC	391	94	174	09.04.17	1	1	0	0	0		Trek
20	DAGUIARA		498	361		567	100	268		1	1	0	0	0		
		Daguiara	498	361	Salamo HC	567	100	268	13.04.17	1	1	0	0	0		Under Salamo and Not Basima
21	DEIDEI		446	574		656	116	294		1	1	0	0	0		
		Deidei	446	574	Budoya HC	656	116	294	05.04.2017	1	1	0	0	0		Trek
22	BWAIOWA		1,023	1,046		961	204	483		1	1	0	0	0		
		Bwaiowa	1,023	1,046	Budoya HC	961	204	483	04.04.2017	1	1	0	0	0		Station (Budoya)
23	SAWA ' EDI		965	903		1,003	190	487		1	1	0	0	0		
		Sawa'edi	965	903	Budoya HC	1,003	190	487	04.04.2017	1	1	0	0	0		Trek
24	WALUMA EAST		361	464		364	89	178		1	1	0	0	0		
		Waluma East	361	464	Budoya HC	364	89	178	04.04.2017	1	1	0	0	0		Trek/Dingi
25	WALUMA WEST		1,129	1,165		1,176	208	576		1	1	0	0	0		
		Waluma West	1,129	1,165	Budoya HC	1,176	208	576	06.04.2017	1	1	0	0	0		Trek/Dingi
26	SEBUTUIA		1,201	1,597		1,416	295	700		1	1	0	0	0		
		Sebutuia	1,201	1,597	Budoya HC	1,416	295	700	08.04.2017	1	1	0	0	0		Dingi
27	MOMOAWA		269	234		265	42	130		1	1	0	0	0		
		Momoawa	269	234	Budoya HC	265	42	130	07.04.2017	1	1	0	0	0		Trek
28	BASIMA		1,084	869		895	185	430		1	1	0	0	9		
		Basima	1,084	869	Basima HC	895	185	430	02.04.17	1	1	0	0	9	NBC	Boat
29	URUA		424	390		403	80	191		1	1	0	0	0		
		Urua	424	390	Basima HC	403	80	191	01.04.17	1	1	0	0	0	NBC	Boat
30	GAMETA		327	340		433	79	214		1	1	0	0	2		
		Gameta	327	340	Basima HC	433	79	214	01.04.17	1	1	0	0	2	NBC	Boat
31	DUDUNA		609	692		722	145	369		1	1	0	0	0		
		Duduna	609	692	Basima HC	722	145	369	03.04.17	1	1	0	0	0	NBC	Boat
32	WADALEI		1,064	1,108		1,240	272	618		1	1	0	0	10		
		Wadalei	1,064	1,108	Basima HC	1,240	272	618	31.03.17	1	1	0	0	10	NBC	Boat
33	BOSALEWA		1,014	1,101		1,204	208	586		1	1	0	0	30		
		Bosalewa	1,014	1,101	Basima HC	1,204	208	586	31.03.17	1	1	0	0	30	NBC	Boat
34	GUMAWANA		700	682		648	134	335		4	3	0	0	0		
		Gumawana	230	247	Basima HC	205	47	113	01.04.17	1	1	0	0	0	NBC	Boat
		Nabwageta Island	258	246	Basima HC	239	42	122	01.04.17	1	1	0	0	0	NBC	Boat
		Bosalewa	212	189	Basima HC					1						Ward 33
		Bituma Island		NEW	Basima HC	204	45	100	01.04.14	1	1	0	0	0	NBC	Boat
35	SANAROA		1,117	1,257		1,248	244	616		1	1	0	0	0		
		Sanaroa	1,117	1,257	Budoya HC	1,248	244	616	07.04.2017	1	1	0	0	0		Boat
				0												
<b>DUAU RURAL</b>			<b>20,092</b>	<b>18,617</b>		<b>19,684</b>	<b>3,903</b>	<b>9,397</b>		<b>30</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>165</b>	<b>10</b>	
1	KELOLOGEA		968	871		896	218	460		1	1	0	0	0		
		Kelologea	968	871	Sehulea HC	896	218	460	01.04.17	1	1	0	0	0		Boat
2	SAWATUPWA		755	701		571	150	295		1	1	0	0	0		
		Sawatupwa	755	701	Sehulea HC	571	150	295	31.03.17	1	1	0	0	0		Boat
3	MWATIBU		409	417		624	97	292		1	1	0	0	0		
		Mwatibu	409	417	Sehulea HC	624	97	292	31.03.17	1	1	0	0	0		Boat
4	SEWATAETAETAE		406	486		522	139	282		1	1	0	0	0		
		Sewataetae	406	486	Sehulea HC	522	139	282	31.03.17	1	1	0	0	0		Boat
5	LOMITAWA		822	454		634	150	306		1	1	0	0	0		
		Lomitawa	822	454	Sehulea HC	634	150	306	04.04.17	1	1	0	0	0		Boat
6	SIPUPU		1,334	1,050		1,041	168	498		2	2	0	0	0		
		Sipusipu	858	872	Sehulea HC	790	121	369	03.04.17	1	1	0	0	0		Boat
		Bwaruada Mission Station	476	178	Sehulea HC	251	47	129	03.04.17	1	1	0	0	0		Boat
7	WEYOKO		744	807		823	209	425		1	2	0	0	0		
		Weyoko	600	591	Sehulea HC	722	186	372	03.04.17	1	1	0	0	0		Boat
		Sehelua Govt.Station	144	216	Sehulea HC	101	23	53	04.04.17	1	1	0	0	0		Boat
8	MAUDANA		1,071	1,035		1,051	208	521		1	1	0	0	0		
		Maudana	1,071	1,035	Sehulea HC	1,051	208	521	03.04.17	1	1	0	0	0		Boat
9	KWANAUULA		609	480		487	108	238		1	1	0	0	0		
		Kwanauula	609	480	Sehulea HC	487	108	238	01.04.17	1	1	0	0	0		Boat
10	LOBODA		609	594		463	34	236		1	1	0	0	0		
		Loboda	609	594	Sehulea HC	463	34	236	01.04.17	1	1	0	0	0		Boat
11	SIAUSI		413	471		462	75	221		1	1	0	0	0		
		Siausi	413	471	Sehulea HC	462	75	221	04.04.17	1	1	0	0	0		Boat
12	DAWADA		559	462		574	131	285		1	0	0	0	0		
		Dawada	559	462	Sehulea HC	574	131	285	03.04.17	1	0	0	0	0		Boat
13	SIGASIGA		603	517		521	100	248		1	1	0	0	0		
		Sigasiga	603	517	Sehulea HC	521	100	248	03.04.17	1	1	0	0	0		Boat
14	SAPISAPIA		862	340		698	159	301		1	1	0	0	0		
		Sapisapia	862	340	Geleguleau HC	698	159	301	03.04.17	1	1	0	0	0	RMB	Boat
15	BIAUWA		813	747		881	138	388		1	1	0	0	11		
		Biauwa	813	747	Geleguleau HC	881	138	388	03.04.17	1	1	0	0	11	RMB	Boat
16	SOMWADINA		400	332		344	73	173		1	0	0	0	0		
		Somwadina	400	332	Geleguleau HC	344	73	173	01.04.17	1	0	0	0	0		Boat
17	MWALAKWASIA		395	313		499	100	244		1	0	0	0	0		
		Mwalakwasia	395	313	Geleguleau HC	499	100	244	01.04.17	1	0	0	0	0		Boat

LLG	WARD	Village	Estimated 2017 Data Based On 2000 Census	Estimated 2017 Data Based On 2013 Data	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Villages	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
18	KASIKASI		1,010	914		1,107	223	452		1	0	0	0	0		
		Kasikasi	1,010	914	Geleguleau HC	1,107	223	452	03.04.17	1	0	0	0	0		Boat
19	KUMWARAU		342	366		286	61	125		1	0	0	0	0		
		Kumwarau	342	366	Geleguleau HC	286	61	125	30.03.17	1	0	0	0	0		Boat
20	KALOTAU		521	464		427	98	187		1	0	0	0	0		
		Kalotau	521	464	Geleguleau HC	427	98	187	31.03.17	1	0	0	0	0		Boat
21	BARABARA		747	778		718	131	347		1	1	0	0	64		
		Barabara	747	778	Kurada HC	718	131	347	03.04.2017	1	1	0	0	64	RMB	Boat
22	BUNAMA		905	855		763	150	356		1	1	0	0	22		
		Bunama	905	855	Kurada HC	763	150	356	03.04.2017	1	1	0	0	22	RMB	Boat
23	GUDUMULI		841	844		577	139	283		1	1	0	0	18		
		Gudumuli	841	844	Kurada HC	577	139	283	03.04.2017	1	1	0	0	18	RMB	Boat
24	ISUMAIMAIU		971	1,147		1,268	232	596		1	1	0	0	0		
		Isumaimaiu	971	1,147	Kurada HC	1,268	232	596	02.04.2017	1	1	0	0	0	RMB	Boat
25	PWANAPWANA		779	923		921	182	429		1	1	0	0	0		
		Pwanapwana	779	923	Kurada HC	921	182	429	02.04.2017	1	1	0	0	0	RMB	Boat
26	SIBONAI		585	437		637	76	303		1	1	0	0	0		
		Sibonai	585	437	Kurada HC	637	76	303	02.04.2017	1	1	0	0	0	RMB	Boat
27	BWASIYAIYAI		483	550		606	114	292		1	1	0	0	0		
		Bwasiyaiyai	483	550	Kurada HC	606	114	292	02.04.2017	1	1	0	0	0	RMB	Boat
28	KURADA		1,137	1,261		1,283	240	614		1	1	0	0	50		
		Kurada	1,137	1,261	Kurada HC	1,283	240	614	02.04.2017	1	1	0	0	50	RMB	Boat / Trek