

# ROTARIANS AGAINST MALARIA



## LONG LASTING INSECTICIDAL NET DISTRIBUTION REPORT

### MADANG PROVINCE Bogia, Madang and Rai Coast Districts

Carried Out In Conjunction With The Provincial And District Government Health  
Services And The Church Health Services Of Madang Province

With Support From Against Malaria Foundation and Global Fund

**16 September to 28 November 2017**



## Table of Contents

Executive Summary .....	3
Background.....	4
Schedule .....	6
Methodology.....	6
Results .....	10
Conclusions.....	12
Acknowledgements .....	13
Appendix One – History Of LLIN Distribution In PNG .....	15
Appendix Two – Malaria In Madang Compared With Other Provinces.....	18
Appendix Three - Malaria By Altitude .....	20
Appendix Four – Other Photographs .....	21
Appendix Four - Map Of Madang Showing Census Points Of 2000 Census.....	23
Annex One	Detailed Distribution Data For Bogia District
Annex Two	Detailed Distribution Data For Madang District
Annex Three	Detailed Distribution Data For Rai Coast District

## Executive Summary

Madang is a province of PNG made up mostly of coastal planes of low altitude with mountains inland near the coast in Ria Coast District and along the border with the highlands provinces of Eastern Highlands, Chimbu, Jiwaka, Western Province and Enga. Some of the areas in the mountains are above 2000m which area considered malaria free. However, most of Bogia, Madang and Rai Coast which are covered in this report are coastal district which are low lying except for a few villages in Rai Coast which are at high altitude.

A survey and distribution of Long Lasting Insecticidal Nets (LLINs) to family level was carried out in Madang Province between 16 September and 28 November 2017 in the three districts of Bogia, Madang and Rai Coast. Bogia and Madang are mostly accessible by road whereas most of Rai Coast can only be reached by boat or airplane.

Table One shows the estimated population and actual population found in each district together with the number of LLINs distributed in each district. In total, 182,650 LLINs were distributed to a population of 378,060 people. This resulted in distribution of 48.3 nets for every 100 people in the province.

**TABLE ONE – Population And Nets Distributed In 2017**

District	Census Population 2000	Population Of Targeted Areas In 2014	Population Surveyed 2017	House Holds Surveyed 2017	Nets Issued 2017	Growth Rate Against 2014 Survey	Growth Rate Against 2000 Survey	Nets Distributed Per 100 People
Bogia	57,104	94,383	104,423	19,033	51,060	3.43	3.61	48.9
Madang	86,693	145,237	165,788	28,473	80,123	4.51	3.89	48.3
Rai Coast	56,299	88,718	107,849	18,320	51,467	6.73	3.90	47.7
Totals	200,096	328,338	378,060	65,826	182,650	4.81	3.81	48.3

A further 368 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.

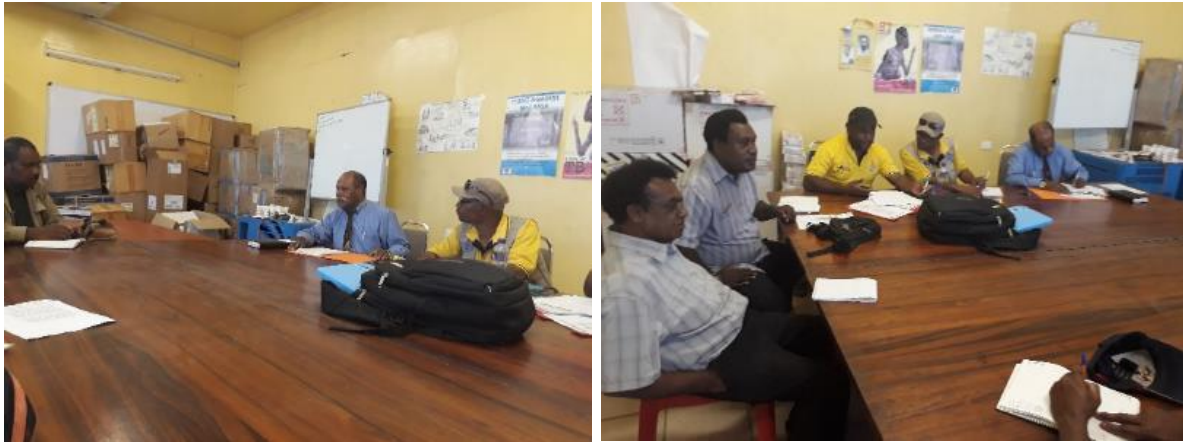
The overall operational cost of the programme was 694,004.26 Kina (Approximately US\$221,631) resulting in a cost of about 3.80 Kina or US\$1.20 per net delivered which was about 5% over the anticipated overall budget. There were overspends in car hire, fuel and air charter costs with savings in boat hire and human resources as compared with the original budget.

The distribution went very well in Madang except for an incident where one of the RAM officer was beaten by drunkards in Bogia. This delayed operations for some time while this issue was resolved. Otherwise the distribution programme was carried out without any real difficulties apart from the usual poor infrastructure and bad weather.

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.

This distribution of LLINs was kindly funded through a donation of nets from the Against Malaria Foundation (AMF) with all delivery costs of distribution were covered by Global Fund (GF). Without these two donors, the delivery of nets into Madang would not have been possible.

The history of LLIN distribution in PNG and Madang Province is discussed in Appendix One and the malaria situation and stratification of malaria in Madang is discussed in Appendix Two and Appendix Three.

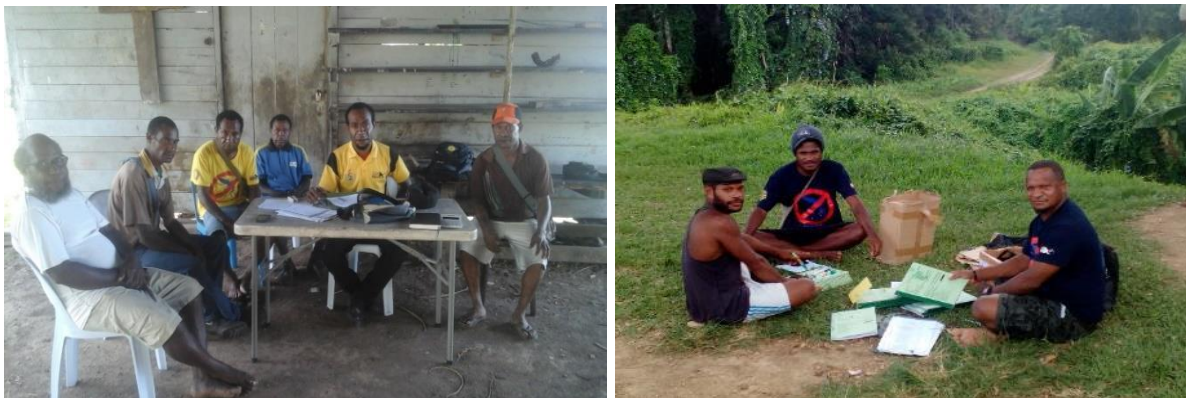


**Fig.1 – Initial Meetings With Provincial Health Staff In Madang**

## **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 an organizational mandate to work in malaria control and the distribution of LLINs in Papua New Guinea and has been working for many years with the National Department of Health (NDOH) and other partners including multilateral and bilateral agencies such as UNICEF and WHO (World Health Organisation), NGOs and church groups. (See Appendix One for full history of LLIN Distribution)



**Fig.2 Training in Bieng (Left) and Alexisshafen (Right)**

Since 2010, RAM has been coordinating the distribution of nets to all districts and provinces on a three-year recurrent cycle. This effectively means that RAM visits every village in PNG every three years. RAM is funded by the Global Fund and since 2017 also from Against Malaria Foundation which supplied PNG with all its nets. The Global Fund resources are used for LLIN distribution costs and other relevant administration costs.

Generally, LLINs have been distributed to household level throughout the country but when shortage of funds occurred, different strategies of distribution have been used.

PNG can be roughly divided into five epidemiological 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 up to 1200m which have stable malaria endemicity and often have poor access to health will continue to have household distributions.
- c) Areas from 1200 to 1600m which are generally considered to be of low transmission but may be epidemic at times due to poor immunity and changing weather conditions. LLIN distribution will continue in these settings.
- d) Highlands regions between 1600 to 2000m in altitude such as Mount Hagen which have low malaria endemicity and generally easy access to health services. These are low priority areas where funds are in short supply but RAM is trying to find funds to cover these areas
- e) In urban and peri-urban areas such as Port Moresby which are low lying areas with easy access to health, nets will not be distributed where funds are not sufficient and nets will be supplied through the private sector.

As a result of this stratification and when funds had been reduced such as the end of 2014, areas above 2000m no longer received nets and areas from 1600 to 2000m only received under five campaigns in 2015 and 2016. However, due to the LLIN donation of Against Malaria Foundation (AMF) in 2017, all areas are now receiving household distribution of nets again except those areas above 2000m, and some urban areas such as NCD, Goroka, Mount Hagen and Mendi.

Only a few scattered villages of Madang lie above 2000m, therefore in 2017, for practical reasons, all areas in all districts were included for LLIN household distribution at a rate of approximately one nets for every two people.

One of the conditions of the AMF donation is that RAM would strengthen the way in which surveys are carried out. These new innovative processes are described in the Methodology Section. These methodologies now being carried out since the beginning of 2017. The major change to the survey methodology suggested by AMF is that previously a village meeting was called after a survey was carried out where names of family members were read out to ensure that all households had been surveyed. Instead of this process, a summary of every village surveyed is posted for 24 hours in a public place so that villages can ensure that all their family members have been included in the survey. As a further verification, RAM and local health staff team members carry out random house surveys of 6% of households in every village to ensure that the survey process has been carried out correctly.



**Fig.3 – Training of Volunteers in Igos (Left) and Saidor (Right)**

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 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 LLINs distribution of Round Three in 2006 to 2010, 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. This is particularly the case in remote villages which can only be reached by boat and it is costly and impractical to return to the villages for 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.

**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. Survey and distributions were carried out as per the table below. Most areas of Bogia and Madang are reachable by road but most of Rai Coast can only be reached by boat or air. The program started off in Rai Coast and Madang. For Rai Coast a large boat was chartered to take staff and nets to Ganglau, Biliau, Saidor and Long Island. Airplanes were also chartered to reach some remote mountainous areas of Rai Coast. Operations in Bogia started as staff completed areas in Madang and Rai Coast.

**TABLE TWO**  
**General Timetable Of Activities In Madang**

District	Survey		Distribution	
	Start	Finish	Start	Finish
Bogia	21.10.17	13.11.17	02.11.17	28.11.17
Madang	20.09.17	30.10.17	03.10.17	07.11.17
Rai Coast	16.09.17	20.10.17	21.09.17	28.10.17

**Methodology**

Prior to planning and implementation, a master list of all villages of Madang was drawn up using data from the 2000 Census and the last RAM survey of 2014. Villages in the list were organised by LLG and Ward. In this master list, the estimated population for 2017 for each village is recorded in two ways, first estimated population figures from the 2000 Census and the estimated annual growth rate for Madang and then by taking the population surveyed in 2014 and applying the annual growth rate to each village.

In all areas, Health Centres form the hub from which distribution takes place to the respective villages in each health centre's catchment area. Therefore, with the planning data at hand, the project manager of RAM works together with the Provincial Health Office to allocate every village to its nearest health centre (government or Church Based) and outlines how each village is reached from each health centre. From this it is possible to create a budget, estimate how many nets are needed to be sent to each health centre and work out any other logistic considerations such as use of airplanes or boats to deliver nets to some remote areas.

Once all logistical needs are calculated and nets delivered to the province or district, a RAM team will travel to the province. Once there in the province, RAM officers are allocated to work with each health centre which becomes the centre of operations for that area.

With the arrival of RAM officers, each health facility identifies health staff members or non-health volunteers to be involved with the programme. If local health staff are selected then they are referred as District Health Team (DHT) but if a non-health staff is selected then s/he is termed as a Team Leader. Both DHTs and Team Leaders are responsible for the survey and distribution of nets. Each DHT and Team Leader work only in the area in which the health facility is based.

Before any activities take place, RAM officers are expected to work with health staff and other team leaders to make detailed plans (micro-planning) of their activities for training, survey, verification and distribution of nets. This process 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 or health centre, 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 jointly carry out the 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 levels. RAM officers also have the responsibility to ensure the LLINs operation kept in line with the original 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 an up to date 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. The training of volunteers may occur in groups or individually depending on access to the village and its proximity to other villages.

- 5) For each household surveyed, all family members who normally reside 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 household, 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 were 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 were 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.



**Fig.4 Carrying out survey in Baitibag (Left) and Village List hanging up in Igos in public place (Right)**

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 DHTs and team leaders. This document also provides the projected population per census unit as well as other information which might be useful to the area concerned.



After collecting survey 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.

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 site with a district code printed on each net e.g. MD17 for Madang 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 Madang Province, all LLINs were delivered to Lae by ship from Vietnam (via Singapore) in ten containers where they were custom cleared. These containers were temporarily stored in Lae before being transported by road to Madang where they were stored at the Madang Hospital. Of these ten containers, two were transported by side lifter truck to Daigul and Bogia Health Centres respectively for use in Bogia District.

Adventist Aviation from Goroka won the contract for air delivery. They collected nets from Madang airport and transported the nets and staff to three remote airfields in the Rai Coast mountains. Adventist Aviation also returned to pick up the staff after 12 days.

### **Results**

The programme surveyed a total of 378,060 people in the three districts to which were distributed 182,650 LLINs. This resulted in distribution of 4834 nets for every 100 people in the province. Table Three shows the distribution by district while Table Four shows the distribution by LLG.

**TABLE THREE**  
**Nets Distributed At District Level In Madang**

District	Census Population 2000	Population Of Targeted Areas In 2014	Population Surveyed 2017	House Holds Surveyed 2017	Nets Issued 2017	Growth Rate Against 2014 Survey	Growth Rate Against 2000 Survey	Nets Distributed Per 100 People
Bogia	57,104	94,383	104,423	19,033	51,060	3.43	3.61	48.9
Madang	86,693	145,237	165,788	28,473	80,123	4.51	3.89	48.3
Rai Coast	56,299	88,718	107,849	18,320	51,467	6.73	3.90	47.7
<b>Totals</b>	<b>200,096</b>	<b>328,338</b>	<b>378,060</b>	<b>65,826</b>	<b>182,650</b>	<b>4.81</b>	<b>3.81</b>	<b>48.3</b>

Table Three shows an overall growth rate from 2000 of 3.81 but since 2014 it is 4.81 which is a very high growth rate particularly in Madang and Rai Coast suggesting population movement between districts and probably from outside the three districts concerned. This growth rate is the highest in the country and may also reflect population movement into Madang from the Highland Provinces.

Due to volcanic activity in labu Island which has displaced many people from the island to the mainland in Bogia it can be seen from Table Four that the population has drastically reduced in labu but greatly increased in the surrounding LLGs of Bogia District, particularly in Yawar Rural.

**TABLE FOUR**  
**Nets Distributed At LLG Level In Madang**

<b>LLG</b>	<b>District</b>	Population Of Targeted Areas In 2014	Population Surveyed 2017	House Holds Surveyed 2017	Nets Issued 2017	Growth Rate Against 2014 Survey	Nets Distributed Per 100 People
Almami Rural	Bogia	29,453	35,489	5,999	17,667	6.41	49.8
labu Rural	Bogia	11,873	7,350	1,658	3,571	-14.77	48.6
Yawar Rural	Bogia	53,057	61,584	11,376	29,822	5.09	48.4
Ambenob Rural	Madang	87,660	97,646	18,190	47,313	3.66	48.5
Madang Urban	Madang	30,984	39,365	5,473	19,190	8.31	48.7
Transgogol Rural	Madang	26,593	28,777	4,810	13,620	2.67	47.3
Astrolobe Bay	Rai Coast	23,903	29,373	4,739	13,984	7.11	47.6
Naho Rawa Rural	Rai Coast	15,236	22,009	3,593	10,497	13.04	47.7
Rai Coast Rural	Rai Coast	49,579	56,467	9,988	26,986	4.43	47.8
<b>Totals</b>		<b>328,338</b>	<b>378,060</b>	<b>65,826</b>	<b>182,650</b>	<b>4.81</b>	<b>48.3</b>

Referring to Table Five, it can be seen that a further 368 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, particularly from health centres which could only be reached by aeroplane or boat. These nets would be used by pregnant mothers and for hospital beds where needed.

**TABLE FIVE**  
**Nets Donated To Health Centres**

<b>District</b>	<b>LLG</b>	<b>HC</b>	<b>Donated</b>
Bogia	Almami Rural	Daigul HC	113
Bogia	Almami Rural	Malala SHC	106
Bogia	Yawar Rural	Igos HC	30
Madang	Ambenob Rural	Alexishafen	72
Rai Coast	Astrolabe Bay Rural	Bawak HC	47
<b>Final</b>			<b>368</b>

**TABLE SIX**  
**Cost Of Programme In Madang**

<b>Cost Category</b>	<b>Budget</b>	<b>Actual</b>	<b>Variances</b>	<b>% Variance</b>
Human Resources	269,366.00	241,280.00	28,086.00	89.6
Fuel Cost	43,890.00	53,417.89	-9,527.89	-21.7
Car Hire Cost	239,400.00	309,507.91	-107,907.91	-29.3
Boat Hire Cost	62,700.00	33,210.00	29,490.00	53.0
Aircraft Hire Cost	16,000.00	20,483.00	-53,733.13	-28.0
Stationeries/Supplies	3,000.00	8,621.58	-5,621.58	-187.4
5% Contingency	27,351.70	27,483.88	-132.18	-0.5
<b>Totals</b>	<b>661,707.70</b>	<b>694,004.26</b>	<b>-119,346.69</b>	<b>104.9</b>

Referring to Table Six, it can be seen that the overall operational cost of the programme was 694,004.26 Kina (Approximately US\$221,631) resulting in a cost of about 3.80 Kina or US\$1.20 per net delivered which was about 5% over the anticipated overall budget. There were overspends in car hire, fuel and air charter costs with savings in boat hire and human resources as compared with the original budget.

The project also looked at radio or cell telephone coverage in the different parts of Madang. Referring to Table Seven, the data suggests that in Madang, there is reasonable coverage of cell networks but radio coverage is generally very low.

**TABLE SEVEN**  
**Cell and Radio Coverage In Madang**

District	House Holds Surveyed	Villages	Digicel	Bmobile	Houses with Radios	Radio Network
Bogia	19,033	248	200	0	865	88
Madang	28,473	337	262	207	6,116	227
Rai Coast	18,320	293	270	13	1,786	176
<b>Total</b>	<b>65,826</b>	<b>878</b>	<b>732</b>	<b>220</b>	<b>8,767</b>	<b>491</b>



**Fig.5 – Distributions in Bieng**

## 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 provincial and district health staff and Catholic and Lutheran 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 except those mentioned above who were having a tribal fight at the time of distribution.

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 this time 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. The only untoward incident of the programme was when a RAM officer was beaten at Bunapas Health Centre in the evening by local youths who were drunk.

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 2000 Census Lists were very important to ensure that survey teams reached 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 Madang 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.



**Fig.10 – Distributions in Alexisshafen**

## **Acknowledgements**

Rotarians Against Malaria would particularly like to thank Mr Marcus Kachau (Provincial Health Advisor) and his team, particularly Bokum Wenani (Provincial Disease Control Officer) Arthur Walgun (Director of Health Services), Michael Rua (Provincial Logistics Officer) and Adolf Kowingre (Provincial Malaria Supervisor) at provincial level for their excellent cooperation, good will and help which made it a pleasure to work in Madang for this operation. 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.

On the following table 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 Lutheran Church Health Services for supporting RAM through its health services in their respective health centres. Similarly, we would like to thank the staff of RAMU Nickel for their assistance in Rai Coast.

## ACKNOWLEDGEMENT LIST – MADANG PROVINCE 2017

NAME	POSITION	INSTITUTE
Kekeng Dula	Nursing Officer	Alexishafen Health Centre
Charles Tanguri	Officer In Charge	Illeg Health Centre
Imei Golai	Community Health Worker	Bawak Health centre
Andrew Ongensa	Officer In Charge	Gumbrani Health centre
Mr. Raphael Baruga	Community Health Worker	Gumbrani Health centre
Constance Mugari	Sister in Charge	Malala Sub Health centre
Peter Sava	Disease Control Officer	Malala Sub Health centre
Steven Kumai	Laboratory Technician Officer	Daigul Health centre
Benjamin Matal	Officer In Charge	Biliau Health centre
Martin Uma	Nursing Officer	Ganglau Health centre
Simu Muni	Nursing Officer	Ganglua Health centre
Benjamin Wogoyv	Officer In Charge	Igos Health centre
Mr. Wesley Panti	Acting Officer In Charge	Raicoast Health centre
Mr. Connie Rai	Health Technician Staff	Raicoast Health centre
Rodney Rou	Community Health worker	Raicoast Health centre
Mrs. Vero	Health Program Manager	Bogis Health centre
Mr. Andrew Sar	Officer In Charge	Bunapas Health centre
Mr. Ben Salu	Community Health Worker	Bunapas Health centre
Bernard Milton	District Health Manager	Madang District
Mrs. Veronica Kinan	Officer In Charge	Sisiak Health centre
Musa Mangap	Officer In Charge	Teptep Health centre
Gabriel Puap	Nursing Officer	Teptep Health centre
Mr. Nane Kei	Community Health Worker	Teptep Health centre
Mr. Felix Karpai	Officer In Charge	Gusap Health centre
Simon Gaep	Community Health Worker	Gusap Health centre
Peter Ezekiel	Recorder	Long Island Health centre
Moureen Nehari	Officer In Charge	Baitabag Health centre
Clara Jalkwe	Officer In Charge	Nagada Aid post
Bill Aivul	Cordinator EBC Health services	Siar Clinic
Ruth Wazami	District Health Manager	Bogia District
Albertha Nafu	Officer In Charge	Bogia Health centre
Ms. Jovitha	Health Extension Officer	Bogia Health centre
Sr.Francisca	Family Health Rep.	Bogia Health centre
Mr. Adam Dek	Comminuty Health Worker	Bogia Health Worker

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. Such community members councillors, peace officers, teachers, head masters and village health workers.

RAM would also like to thank Larn Harvey of Adventist Aviation Services (AAS) for his assistance in safely flying three RAM officers to three locations in the mountains of Rai Coast.

## Appendix One – History Of LLIN Distribution In PNG

The use of Insecticide Treated Nets (ITNs) started in PNG in 1985. The PNG Institute of Medical Research (IMR) conducted one of the first trials demonstrating the health impact of treating mosquito nets with insecticide. The study, done near Madang, showed a reduction of *P.falciparum* incidence and prevalence in children below five years of age sleeping under permethrin-treated nets. The protective effect of insecticide-treated nets (ITNs) was also confirmed in many other trials around the world. As a consequence of such findings, the national malaria control program in PNG started emphasizing the use of ITNs in 1989. However, no regular or large-scale distribution of ITNs was carried out at this time.

In the following years, coverage with mosquito nets and other control interventions remained patchy and low in many parts of PNG. It was during this period that Rotarians Against Malaria (RAM) was created from the Port Moresby Rotary Club in 1997. Using a donation of 150,000 treated nets given to them from the National Department of Health (originally from AusAid), RAM successfully ran a revolving fund of nets in which nets were sold at a price which allowed the proceeds to buy more nets. This they did successfully for many years distributing about 45,000 treated nets a year from 2000 to 2004.

Prior to 2004, most treated nets had to be re-treated every six months or a year which requires a lot of work and organisation. In early 2004 everything changed with the introduction of Long Lasting Insecticidal Nets (LLINs) which would last for 20 heavy duty washes and effectively no longer required to be treated repeated. This change in nets also coincided with the introduction of the Global Fund into PNG known as the Global Fund Round 3.

From 2005 to 2009 the malaria programme in PNG received and delivered about 2.3 million nets throughout the country at a rate of one net for every 2.5 people. The delivery of nets to village level was under the provincial health authorities and reached most parts of the country with Rotarians Against Malaria (RAM) being responsible in delivering the containers of nets to the provinces from Port Moresby and Lae where the nets arrived from overseas.

While the programme was very successful in some areas it was not so successful in others. Problems included slow release of funds from central to provincial level, some provinces not following technical guidelines given resulting in some areas not been covered, and technical and financial reporting leaving a lot to be desired in many of the provinces. When further funds became available in what is known as the Global Fund Round Eight, it was decided that Rotarians Against Malaria (RAM) would take over the coordination of the LLIN programme.

This change has resulted in RAM being responsible for the overall coordination of the LLIN distribution of LLINs in the country particularly in the areas of quantification, procurement, reporting and delivery to provincial and district level. However, the actual delivery of nets to village level is a collaboration between RAM, provincial health authorities and district health and health centre staff.

Fig.1 shows the distribution of nets to districts and provinces from 2006 to 2009 while Fig.2 shows the distribution of nets from 2010 to 2014 and Fig.3 shows the distribution from 2015 to 2017 which includes under five distributions in 2016 and 2017. Under Five distributions had been carried out in areas above 1600m and in Port Moresby and Lae City due to lack of funds. This situation changed when support from Against Malaria Foundation was received.

Up until June 2017, a total of 8,223, 853 had been distributed under the coordination of RAM. Therefore, with the 2.5 million nets distributed from 2006 to 2009, this means that about 10.5 million nets have been delivered to household level in PNG since 2006. This is more than one net per every person in PNG. RAM has also distributed about another 1.2 million nets to health centres for distribution to pregnant women and for prisons and boarding schools.

It should also be noted that alongside developments related to treated mosquito nets, the first cases of chloroquine-resistant malaria were reported in 1976 (20). This progressed rapidly to widespread resistance of *P.falciparum*, and to a slightly lesser extent *P.vivax*, to chloroquine, amodiaquine and sulphadoxine-pyrimethamine (SP). In studies conducted between 2003 and 2005, even combination regimens of these drugs faced up to 29% resistance of *P. falciparum*<sup>2</sup>. This situation together with Global Fund Round 8 also saw the introduction of artemeter lumfantrine branded as Malawan, IPT (Intermittent Preventative Treatment) for antenatal women.

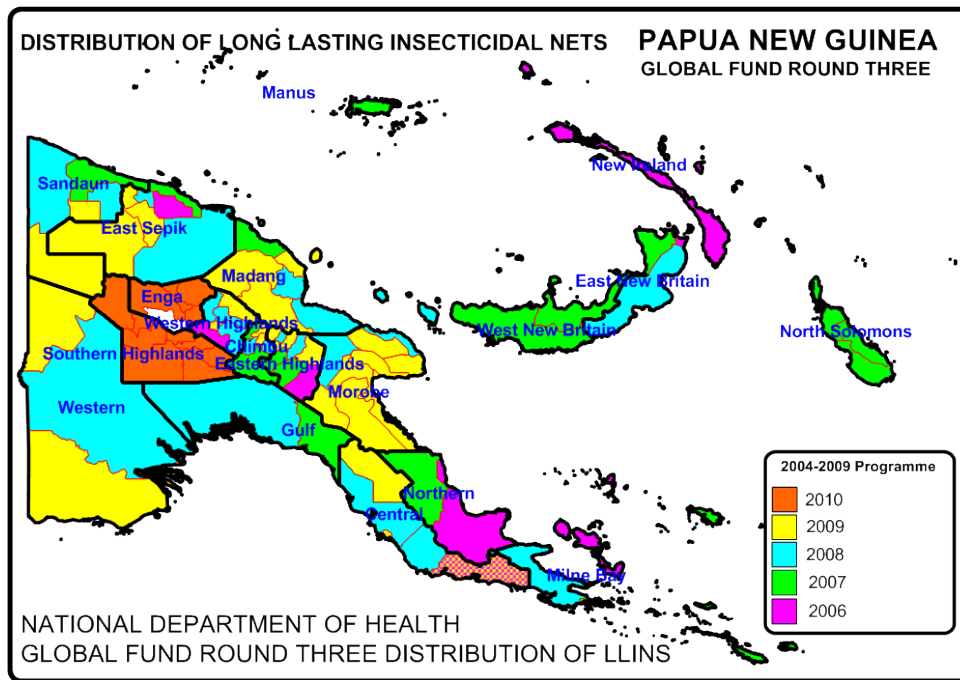


Fig. 1 Distribution Of Nets Under National Department Of Health From 2006 To 2010

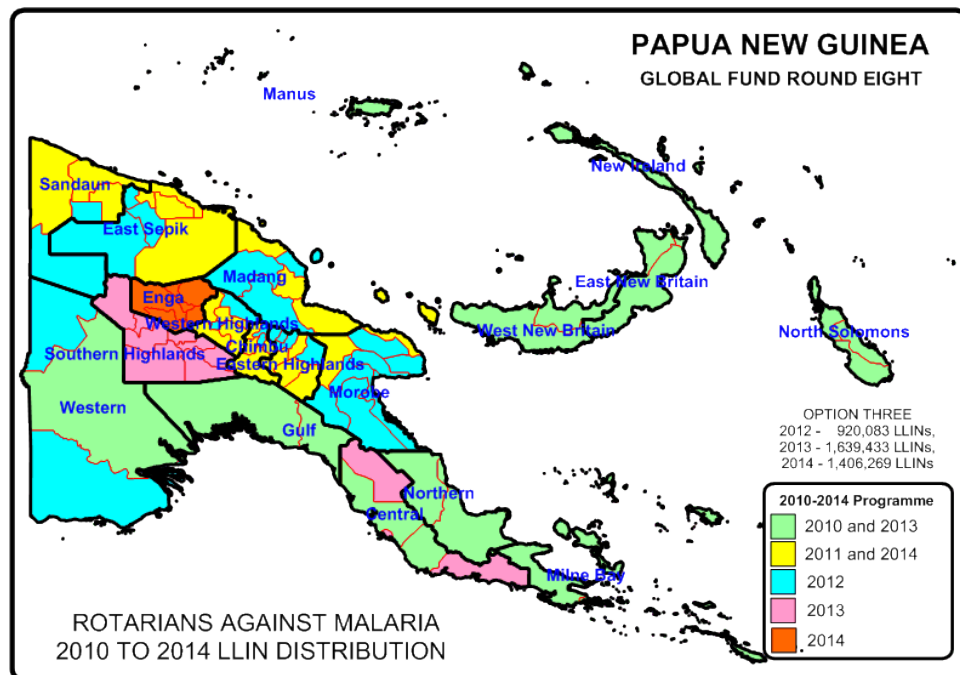


Fig.2 Distribution of LLIN Programme 2010 to 2014



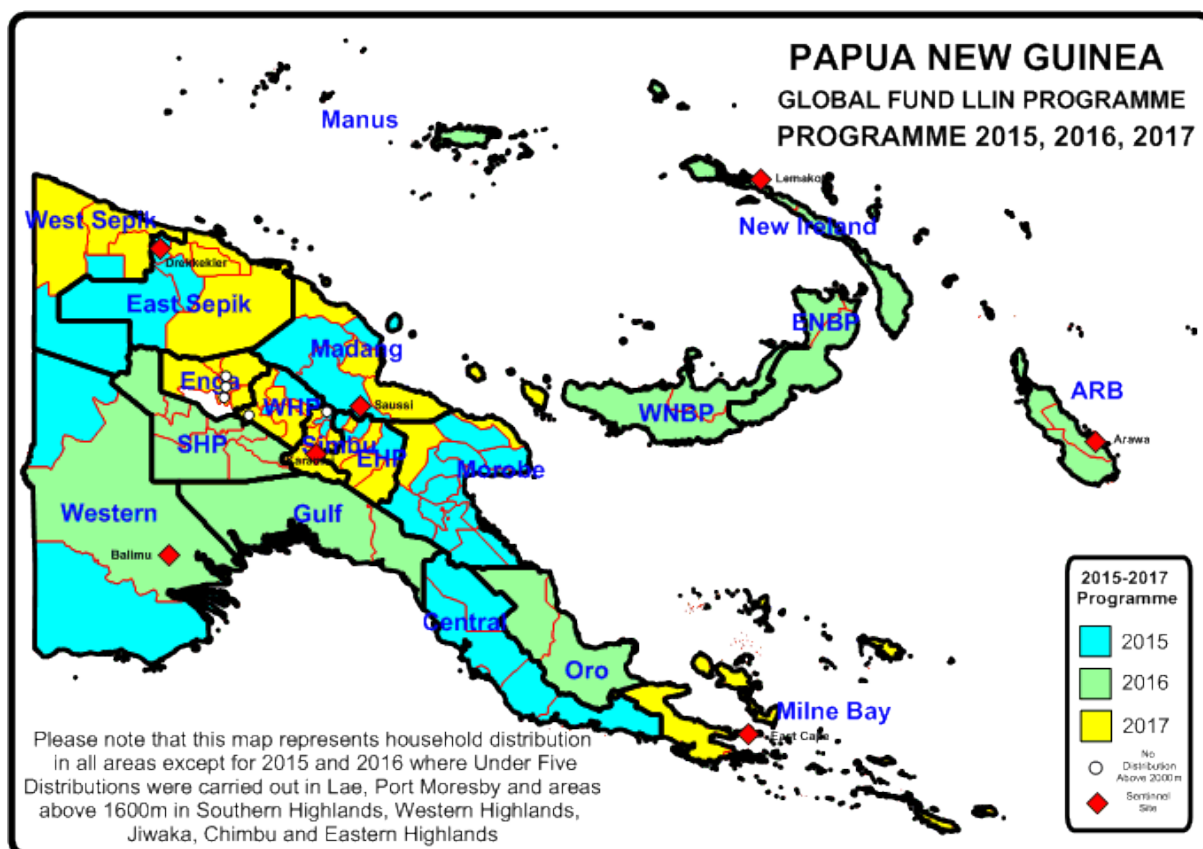


Fig.3 LLIN Distribution Programme 2015 to 2017

**TABLE ONE - LLINs Delivered In PNG Under Coordination Of RAM From 2010**

Period	Dates	Districts	Provinces	Nets Delivered
Phase One (2010-2011)	Nov 09 - Oct 11	50 Districts	18 Provinces	1,890,448
Year 3 (2012)	Nov 11 - Sep 12	27 Districts	10 Provinces	832,671
Year 4 (2013)	Oct 12 - Sep 13	28 Districts	12 Provinces	1,210,391
Year 5 (2014)	Oct 13 - Sep 14	23 Districts	11 Provinces	1,374,791
Year 5 (2014) No Cost Extension	Oct 14 - Dec 14	Okapa, Lufa, Madang, Angoram, Maprik, Yangoru Saussi, Wewak, Aitape Lumi, Nuku and Vanimo Green	EHP, Madang, East Sepik and Sandaun	454,806
Year 6 (2015)		29 Districts	11 Provinces	932,822
Year 7 (2016)		27 Districts	13 Provinces	805,597
Year 8 (2017)	Jan - Mar 2017	Kokopo, Rabaul, Gazelle, Kimbe, Alotau, Samarai Nurua, Esa'ala, Kiriwina Goodenough	East New Britain, West New Britain, Milne Bay	335,330
	Apr - Jun 2017	Kompiani, Wabag, Wapenamanda, Lagaip Porgera, Tambul Nebliya, Mul Bayer, Dei, Anglimp South Waghi and North Waghi	Enga, Western Highlands and Jiwaka	396,997
	Jul - Sep 2017	Chuave, Kerowagi, Karumui, Goroka, Okapa, Lufa, Henganofi and Obura Wonenara	Chimbu and Eastern Highlands	298,983
New Funding Model				2,769,729
Round Eight				5,763,107
Overall Total Phase One and Phase Two And NFM				8,532,836

## Appendix Two – Malaria In Madang Compared With Other Provinces

- Fig.1 shows the decrease of malaria from 2007 to 2015 in all provinces, Fig. 2 shows the actual malaria incidence in Madang compared with other provinces and Fig.3 shows annual malaria trends from 2012 to 2016. In Madang, it can be seen from Fig.1 that malaria decreased from 2007 to 2015 by 65% which is a similar reduction to other northern coastal areas of PNG. This is also reflected in Fig.2 which shows that the incidence of malaria in Madang is 103 per 1000 people which is similar to its coastal neighbours. Fig. 3 shows that the trend of incidence of malaria in Madang since 2012 as compared with other provinces while Fig.4 shows the malaria incidence reported since 2000 against LLIN distributions which generally show decreases in malaria each time LLINs have been distributed but not always as noted in 2007. The problem with interpreting the impact of LLIN distribution is that the endemicity of malaria in Madang is quite diverse and the effects of net distribution may not be felt on a provincial level to the same extent, particularly when distribution is not carried out in the province all at one time.

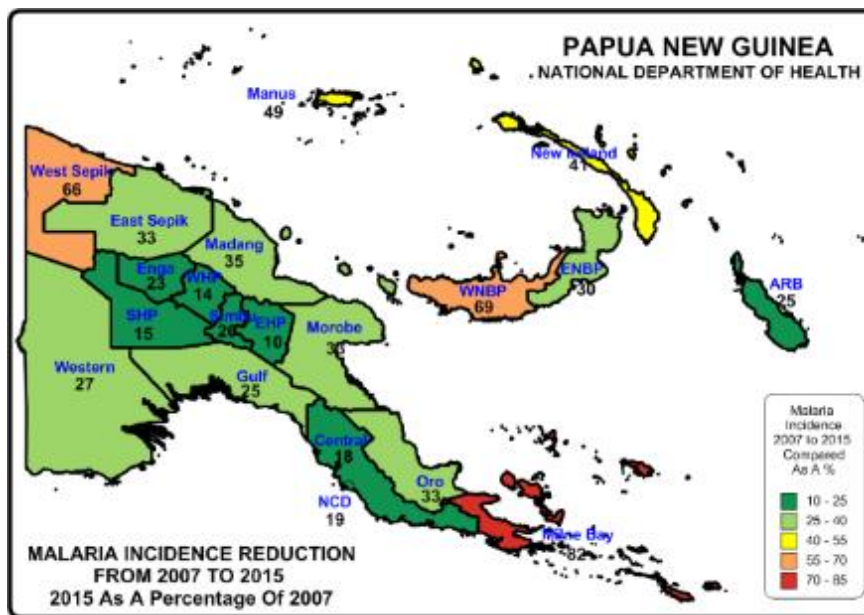


Fig.1 – Relative Reduction Of Malaria In Provinces Of PNG

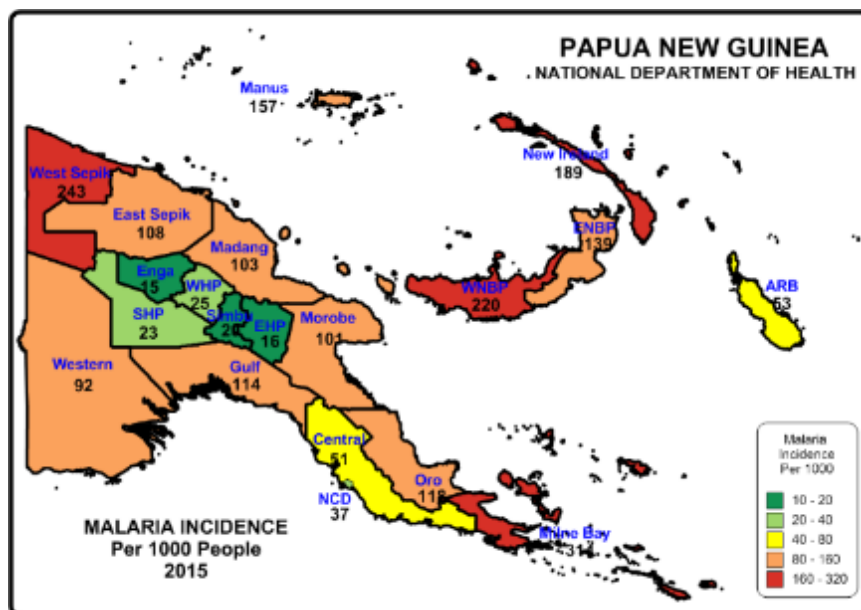


Fig.2 – Reported Malaria Incidence In 2015

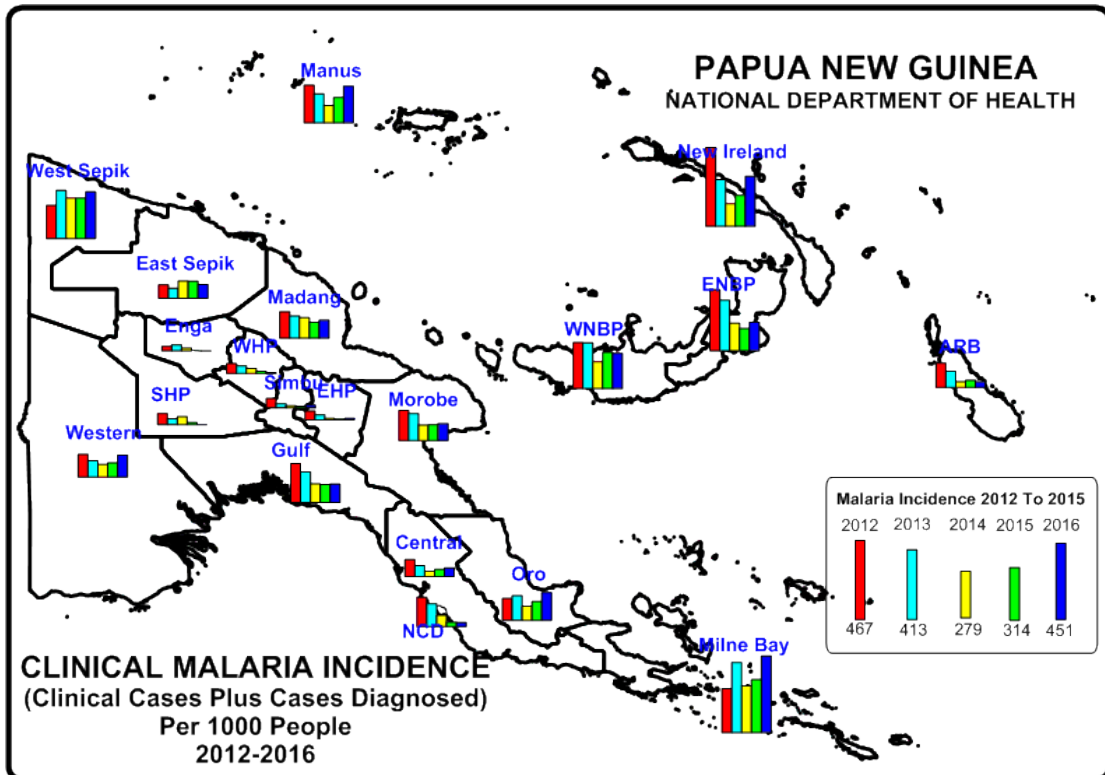


Fig. 3 - Reported Malaria Incidence In PNG From 2012 To 2016

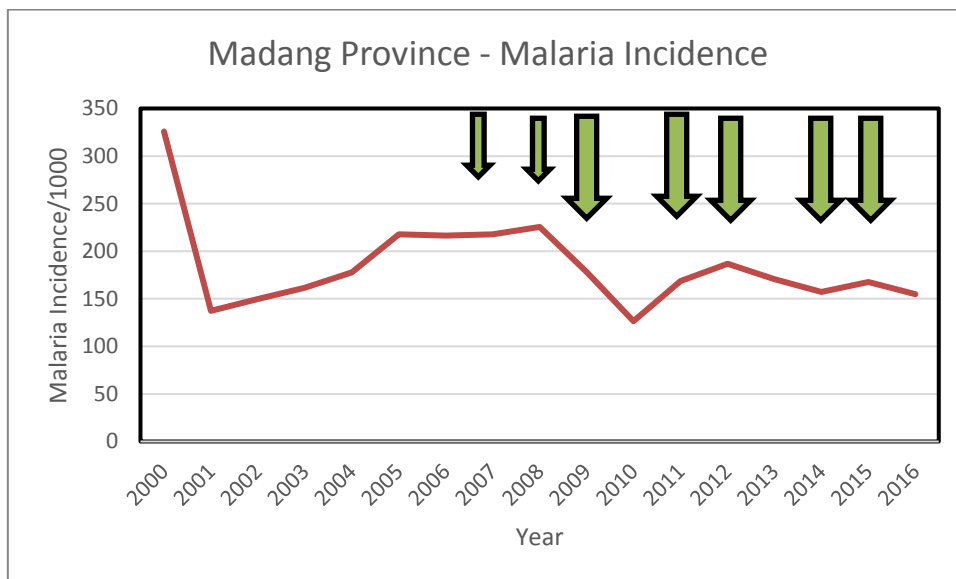


Fig. 4 – Malaria Incidence Versus Distribution Of Nets

(Green Arrows represent years of Household Distribution – Small Arrows show distributions in Bogia (2007) and Madang and Rai Coast (2008) - Large Arrows show distributions of three districts at time time e.g. Bogia, Madang and Rai Coast in 2011, 2014 and 2017 while Middle Ramu, Sumkar and Usino Bundi were done in 2012, 2015.

### Appendix Three - Malaria By Altitude

From Fig. 1 and data bases of village populations, it can also be calculated that about 87% of the population of Madang live below 1200m altitude where malaria can be considered highly endemic and stable. A further 7.8% in the zone between 1200-1600m which is considered malaria epidemic in nature with a further 4.7% living in the zone 1600-2000 metres where it is generally considered only *P. vivax* lives. The remaining 0.5% live in areas above 2000m where malaria transmission is not considered to exist. From the map below, it can be seen that the majority of people in Bogia and Madang live below 400 metres while in Rai Coast there are quite a number of villages at high altitude.

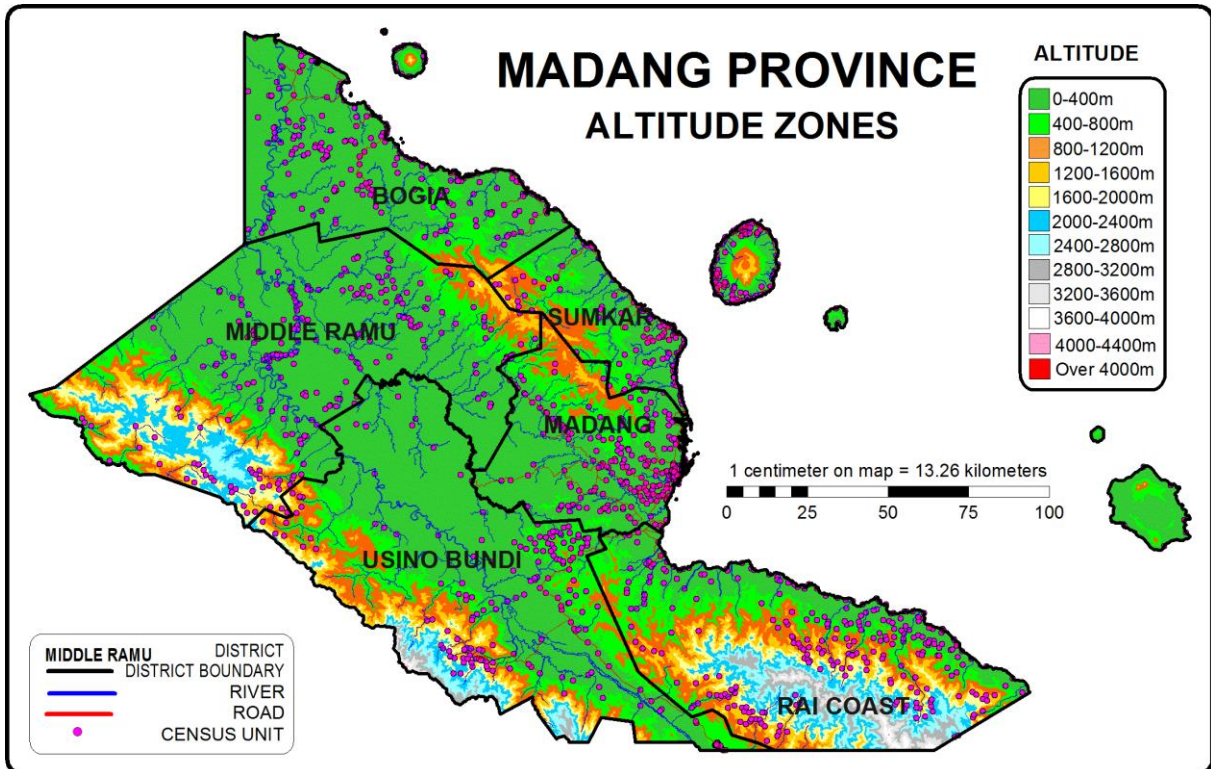


Fig.1 - Altitude Zones Of Western Highlands And Madang Province

**Appendix Four – Other Photographs**



Distribution In Baitabag (Left) and Trekking In Ganglau (Right)



Boat taking staff and nets to Rai Coast (Right) and Unloading Boat in Saidor (Right)



Happy Customers In Ganglau (Left) and Marking Nets In Igos (Right)

## OTHER PICTURES



Dinghy delivering nets in Sidor (Left) and Happy Customer In Alexisshafen (Right)

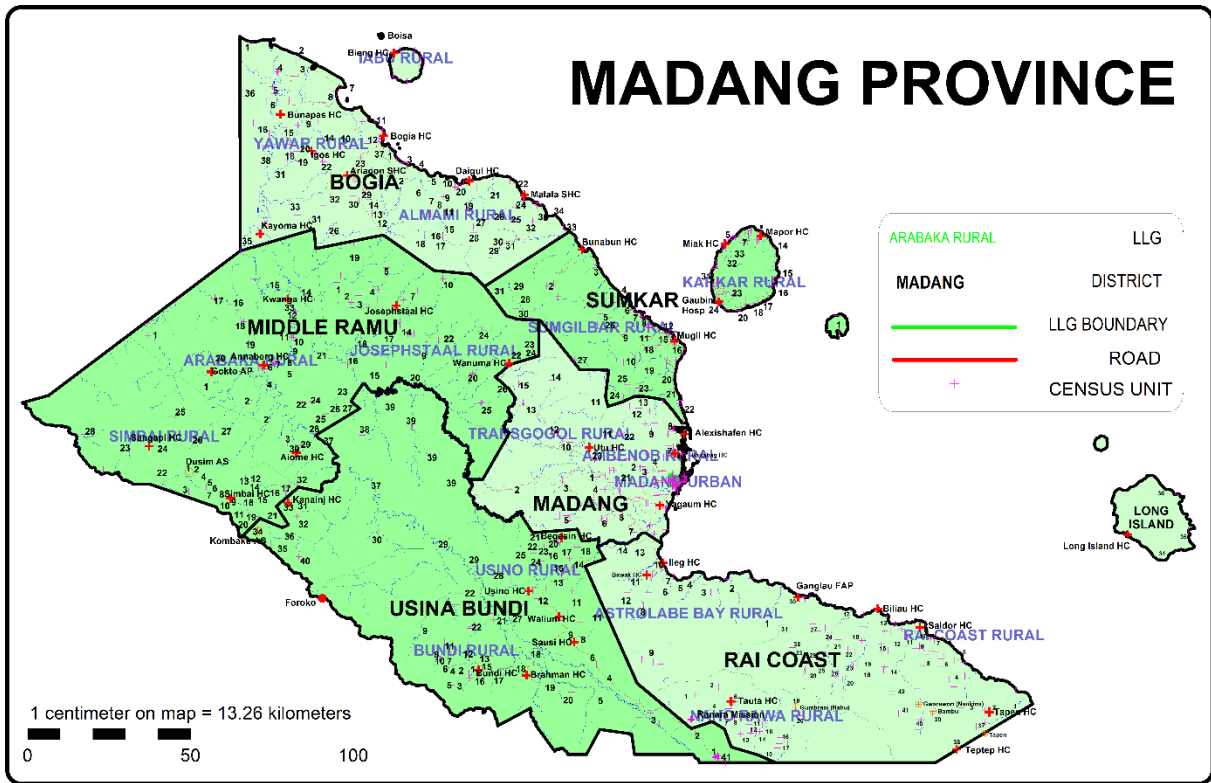


Unloading the boat at Sidor (Left) and Distribution In Sisiak (Right)



Distribution In Tapen

# Appendix Four - Map Of Madang Showing Census Points Of 2000 Census



## ANNEX ONE

**MADANG PROVINCE  
BOGIA DISTRICT POPULATION 2017  
LLIN DISTRIBUTION SUMMARY SHEET**

LLG	WARD	VILLAGE	Estimated 2017 Data Based On 2014 Data	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
<b>BOGIA</b>			<b>105,862</b>		<b>104,423</b>	<b>19,033</b>	<b>51,060</b>		<b>200</b>	<b>0</b>	<b>0</b>	<b>865</b>	<b>88</b>	
<b>ALMAMI RURAL</b>			<b>33,035</b>		<b>35,489</b>	<b>5,999</b>	<b>17,667</b>		<b>98</b>	<b>0</b>	<b>0</b>	<b>40</b>	<b>13</b>	
1	AMBANA		<b>1,202</b>		<b>1,253</b>	<b>236</b>	<b>596</b>		<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>		
		1.Ambana	1,202	Bogia HC	1,253	236	596	07.11.17	1	0	0	1	Radio Madan	Road
2	DAGUI		<b>1,134</b>		<b>1,256</b>	<b>240</b>	<b>606</b>		<b>5</b>	<b>0</b>	<b>0</b>	<b>8</b>		
		1.Dongkanam	332	Bogia HC	324	60	150	07.11.17	1	0	0	7	Radio Madan	Road
		2.Dagui	136	Bogia HC	88	19	39	07.11.17	1	0	0	0	Radio Madan	Road
		3.Lilau	338	Bogia HC	359	62	172	07.11.17	1	0	0	0	Radio Madan	Road
		4.kongwan	221	Bogia HC	346	71	182	07.11.17	1	0	0	0	Radio Madan	Road/Trek
		5.Sawat	108	Bogia HC	139	28	63	07.11.17	1	0	0	1	Radio Madan	Road
3	GAWAT		<b>850</b>		<b>860</b>	<b>163</b>	<b>402</b>		<b>3</b>	<b>0</b>	<b>0</b>	<b>25</b>		
		1.Bonaputa	361	Bogia HC	355	73	169	07.11.17	1	0	0	9	Radio Madan	Road
		2.Moap	253	Bogia HC	243	41	111	07.11.17	1	0	0	2	Radio Madan	Road
		3.Yambayamba	236	Bogia HC	262	49	122	07.11.17	1	0	0	14	Radio Madan	Road
4	WANGOR		<b>693</b>		<b>547</b>	<b>102</b>	<b>262</b>		<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Bimat	260	Bogia HC	254	46	121	07.11.17	1	0	0	0	Radio Madan	Road
		2.Wangor	433	Bogia HC	293	56	141	07.11.17	1	0	0	0	Radio Madan	Road
5	SUARU		<b>1,046</b>		<b>1,001</b>	<b>179</b>	<b>464</b>		<b>2</b>	<b>0</b>	<b>0</b>	<b>6</b>		
		1.Suaru	951	Bogia HC	938	164	431	07.11.17	1	0	0	6	Radio Madan	Road
		2.Srugaram	95	Bogia HC	63	15	33	07.11.17	1	0	0	0	Radio Madan	Road
6	PARIAKANAM		<b>768</b>		<b>959</b>	<b>158</b>	<b>481</b>		<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Dumudum	365	Daigul HC	611	109	306	13.11.17	1	0	0	0		6 Hr Trek
		2.Gum	190	Daigul HC	167	26	84	13.11.17	1	0	0	0		6 Hr Trek
		3.Pariakanam	214	Daigul HC	181	23	91	13.11.17	1	0	0	0		6 Hr Trek
7	TURUTAPA		<b>280</b>		<b>282</b>	<b>60</b>	<b>141</b>		<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Gurube	150	Daigul HC	144	34	72	13.11.17	1	0	0	0		6 Hr Trek
		2.Turutapa	130	Daigul HC	138	26	69	13.11.17	1	0	0	0		6 Hr Trek
8	URUMARAV		<b>407</b>		<b>216</b>	<b>43</b>	<b>108</b>		<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Urumarav	407	Daigul HC	216	43	108	14.11.17	1	0	0	0		1 Day Trek
9	MILALIMUDA		<b>734</b>		<b>817</b>	<b>116</b>	<b>410</b>		<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Buanavav	209	Daigul HC	148	24	75	14.11.17	1	0	0	0		6 Hr Trek
		2.Milamuda	236	Daigul HC	269	35	135	14.11.17	1	0	0	0		6 Hr Trek
		3.Wanuru	289	Daigul HC	400	57	200	14.11.17	1	0	0	0		6 Hr Trek
10	AIDIBAL		<b>1,187</b>		<b>1,171</b>	<b>205</b>	<b>588</b>		<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Aidibal	563	Daigul HC	522	92	262	14.11.17	1	0	0	0		Road
		2.Daiau	330	Daigul HC	335	58	168	14.11.17	1	0	0	0		Road
		3.Kabak Com.sch	0	Daigul HC	21	5	11	14.11.17	1	0	0	0		Road
		4.Kabak plantation	200	Daigul HC	120	21	60	14.11.17	1	0	0	0		Road
		5.Banara Cath.miss	0	Daigul HC	74	10	37	14.11.17	1	0	0	0		Road
		6.Rara	94	Daigul HC	99	19	50	14.11.17	1	0	0	0		Road
11	TURUPUAV		<b>658</b>		<b>628</b>	<b>88</b>	<b>315</b>		<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Turupuav	377	Daigul HC	427	60	214	15.11.17	1	0	0	0		1 Day Trek
		2.Wagedav	282	Daigul HC	201	28	101	15.11.17	1	0	0	0		1 Day Trek
12	MURUSAPA		<b>703</b>		<b>728</b>	<b>150</b>	<b>378</b>		<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Murusapa	703	Ariagon HC	728	150	378	07.11.17	1	0	0	0		Road/3 Hr Trek
13	WADAGINAM		<b>1,993</b>		<b>1,703</b>	<b>351</b>	<b>1,163</b>		<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Wadaginam	1,993	Ariagon HC	1,703	351	1,163	03.11.17	1	0	0	0		Road/2 Hr Trek
14	SEREKEN		<b>1,335</b>		<b>1,354</b>	<b>281</b>	<b>670</b>		<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Sereken 2	736	Ariagon HC	896	181	442	06.11.17	1	0	0	0		Road
		2.Sereken 1	599	Ariagon HC	458	100	228	06.11.17	1	0	0	0		Road
15	WAGIMUDA		<b>538</b>		<b>510</b>	<b>85</b>	<b>255</b>		<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Iwame	250	Daigul HC	210	35	105	16.11.17	1	0	0	0		1 Day Trek
		2.Wagimuda	288	Daigul HC	300	50	150	16.11.17	1	0	0	0		1 Day Trek
16	YAWERA		<b>184</b>		<b>199</b>	<b>34</b>	<b>100</b>		<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Yawera	184	Daigul HC	199	34	100	16.11.17	1	0	0	0		1 Day Trek
17	YAKIBA		<b>787</b>		<b>816</b>	<b>143</b>	<b>409</b>		<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Musiamunat	176	Daigul HC	187	30	94	16.11.17	1	0	0	0		1 Day Trek
		2.Sanavat	243	Daigul HC	347	61	174	16.11.17	1	0	0	0		1 Day Trek
		3.Yakiba	368	Daigul HC	282	52	141	16.11.17	1	0	0	0		1 Day Trek
18	MUGUMAT		<b>476</b>		<b>490</b>	<b>86</b>	<b>246</b>		<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Mugumat 2	476	Daigul HC	490	86	246	16.11.17	1	0	0	0		1 Day Trek
19	YORO SUVAT		<b>1,108</b>		<b>1,300</b>	<b>215</b>	<b>651</b>		<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Suvat	294	Daigul HC	355	57	178	16.11.17	1	0	0	0		Road
		2.Yoro cocoa Scheme	814	Daigul HC	945	158	473	16.11.17	1	0	0	0		Road
20	DUGUMOR		<b>2,537</b>		<b>2,384</b>	<b>375</b>	<b>1,196</b>		<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Dugumor	345	Daigul HC	359	53	180	15.11.17	1	0	0	0		Road/Coastal
		2.Sabero	248	Daigul HC	319	57	160	15.11.17	1	0	0	0		Road/Coastal
		3.Siriar	174	Daigul HC	140	25	70	15.11.17	1	0	0	0		Road/Coastal
		4.Tobenam	538	Daigul HC	557	88	280	15.11.17	1	0	0	0		Road/Coastal
		5.Vidaro	348	Daigul HC	291	49	146	15.11.17	1	0	0	0		Road/Coastal
		6.Dugumor Plntn	494	Daigul HC	418	60	210	15.11.17	1	0	0	0		Road/Coastal
		7.Hatzfeldhaven H/C	390	Daigul HC	300	43	150	15.11.17	1	0	0	0		Road/Coastal
21	BUSIP KALELAP		<b>1,544</b>		<b>3,259</b>	<b>451</b>	<b>1,634</b>		<b>8</b>	<b>0</b>	<b>0</b>	<b>0</b>		



LLG	WARD	VILLAGE	Estimated 2017 Data Based On 2014 Data	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
		1.Bombom	170	Daigul HC	109	19	55	16.11.17	1	0	0	0		Road/Coastal
		2.Kaukopmba	638	Daigul HC	583	95	293	15.11.17	1	0	0	0		Road/Coastal
		3.Taliak Comm.Sch	0	Daigul HC	67	10	34	15.11.17	1	0	0	0		Road/Coastal
		4.Asuramba(Kuluguma)	NEW	Daigul HC	420	58	211	15.11.17	1	0	0	0		Road/Coastal
		5.Asuramba (Dangale)	NEW	Daigul HC	807	100	404	15.11.17	1	0	0	0		Road/Coastal
		6. Asuramba (Kolang)	NEW	Daigul HC	572	61	286	15.11.17	1	0	0	0		Road/Coastal
		7. Busip	408	Daigul HC	456	73	228	15.11.17	1	0	0	0		Road/Coastal
		8. Kalelat	328	Daigul HC	245	35	123	15.11.17	1	0	0	0		Road/Coastal
22	SIMBINE		<b>1,498</b>		<b>1,398</b>	<b>258</b>	<b>671</b>		<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Rarin	465	Malala SHC	500	89	240	10.11.17	1	0	0	0		Road/Coastal
		2.Simbine	454	Malala SHC	448	82	215	10.11.17	1	0	0	0		Road/Coastal
		3.Tamakot	328	Malala SHC	283	57	136	10.11.17	1	0	0	0		Road/Coastal
		4.Suraten	251	Malala SHC	167	30	80	11.11.17	1	0	0	0		Road/Coastal
23	MALALA WAKOR		<b>1,105</b>		<b>1,621</b>	<b>270</b>	<b>777</b>		<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Wakorma	277	Malala SHC	309	52	148	11.11.17	1	0	0	0		Road/Coastal
		2.Malala	299	Malala SHC	324	69	155	10.11.17	1	0	0	0		Road/Coastal
		3.Malala Top-up Sch	394	Malala SHC	108	14	52	11.11.17	1	0	0	0		Road/Coastal
		4.Malala High Sch	135	Malala SHC	291	47	140	11.11.17	1	0	0	0		Road/Coastal
		5.Bobom	NEW	Malala SHC	51	8	24	11.11.17	1	0	0	0		Road/Coastal
		6.Susure	NEW	Malala SHC	331	44	159	09.11.17	1	0	0	0		Road/Coastal
		7.Moraten	NEW	Malala SHC	207	36	99	09.11.17	1	0	0	0		Road/Coastal
24	AMITEN		<b>1,478</b>		<b>1,408</b>	<b>218</b>	<b>674</b>		<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Amiten	430	Malala SHC	407	57	194	09.11.17	1	0	0	0		Road
		2.Moro	489	Malala SHC	471	72	226	09.11.17	1	0	0	0		Road
		3.Rurunat	560	Malala SHC	530	89	254	09.11.17	1	0	0	0		Road
25	AKETA		<b>998</b>		<b>899</b>	<b>171</b>	<b>431</b>		<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Aketa	619	Malala SHC	589	108	282	09.11.17	1	0	0	0		4 Hr Trek
		2.Yaipamer	379	Malala SHC	310	63	149	09.11.17	1	0	0	0		4 Hr Trek
26	ALESWAW		<b>780</b>		<b>761</b>	<b>140</b>	<b>365</b>		<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Ababigap	209	Malala SHC	154	30	74	09.11.17	1	0	0	0		4 Hr Trek
		2.Alesuap	157	Malala SHC	165	41	79	09.11.17	1	0	0	0		4 Hr Trek
		3.Waba	319	Malala SHC	406	60	195	09.11.17	1	0	0	0		4 Hr Trek
		4.Waba Comm. Sch	95	Malala SHC	36	9	17	09.11.17	1	0	0	0		4 Hr Trek
27	MANUGA		<b>832</b>		<b>889</b>	<b>135</b>	<b>420</b>		<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Erebadav	203	Malala SHC	197	32	95	09.11.17	1	0	0	0		1 Day Trek
		2.Manugar	168	Malala SHC	185	36	86	09.11.17	1	0	0	0		1 Day Trek
		3.Uwunpe	461	Malala SHC	507	67	239	09.11.17	1	0	0	0		1 Day Trek
28	GUGUBAR		<b>299</b>		<b>361</b>	<b>50</b>	<b>173</b>		<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Gugubar	299	Malala SHC	361	50	173	09.11.17	1	0	0	0		1 Day Trek
29	EREWANEM		<b>402</b>		<b>497</b>	<b>75</b>	<b>238</b>		<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Erewanam	206	Malala SHC	305	49	146	08.11.17	1	0	0	0		1 Day Trek
		2.Mawak	195	Malala SHC	192	26	92	08.11.17	1	0	0	0		1 Day Trek
30	ULATAPUN		<b>579</b>		<b>607</b>	<b>98</b>	<b>291</b>		<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Ulatapun	262	Malala SHC	238	46	114	08.11.17	1	0	0	0		1 Day Trek
		2.Musiporo	316	Malala SHC	369	52	177	08.11.17	1	0	0	0		1 Day Trek
31	TARIKAPA		<b>679</b>		<b>846</b>	<b>136</b>	<b>406</b>		<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Papur	248	Malala SHC	275	50	132	08.11.17	1	0	0	0		Road
		2.Tarikapa	431	Malala SHC	571	86	274	08.11.17	1	0	0	0		Road
32	MUAKA		<b>928</b>		<b>948</b>	<b>154</b>	<b>455</b>		<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Muaka	197	Malala SHC	272	47	131	08.11.17	1	0	0	0		2 Hr Trek From Tarikapa
		2.Saramun	730	Malala SHC	676	107	324	08.11.17	1	0	0	0		2 Hr Trek From Tarikapa
33	KORAK		<b>588</b>		<b>741</b>	<b>115</b>	<b>355</b>		<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Korak	588	Malala SHC	741	115	355	09.11.17	1	0	0	0		Road
34	ULINGAN		<b>1,183</b>		<b>1,334</b>	<b>189</b>	<b>643</b>		<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Mewok	685	Malala SHC	526	59	252	09.11.17	1	0	0	0		Road/Coastal
		2.Sikor	382	Malala SHC	379	73	182	09.11.17	1	0	0	0		Road/Coastal
		3.Ulingan	116	Malala SHC	429	57	209	09.11.17	1	0	0	0		Road/Coastal
35	TOTO		<b>518</b>		<b>479</b>	<b>75</b>	<b>230</b>		<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Toto	518	Malala SHC	479	75	230	09.11.17	1	0	0	0		Road/Coastal
36	MEDEBUR		<b>404</b>		<b>400</b>	<b>67</b>	<b>191</b>		<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Medebur	404	Malala SHC	400	67	191	09.11.17	1	0	0	0		Road/Coastal
37	MEREMAN		<b>598</b>		<b>567</b>	<b>87</b>	<b>272</b>		<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Mereman	260	Malala SHC	251	37	120	10.11.17	1	0	0	0		Road/Coastal
		2.Sapra	338	Malala SHC	316	50	152	10.11.17	1	0	0	0		Road/Coastal
			0											
<b>IABU RURAL</b>			<b>13,317</b>		<b>7,350</b>	<b>1,658</b>	<b>3,571</b>		<b>13</b>	<b>0</b>	<b>0</b>	<b>98</b>	<b>6</b>	
1	BALIAU WARD		<b>1,793</b>		<b>1,598</b>	<b>294</b>	<b>781</b>		<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Baliau	1,793	Bieng HC	1,598	294	781	03.11.17	1	0	0	0		Boat/Island
2	DANGALE		<b>725</b>		<b>109</b>	<b>23</b>	<b>44</b>		<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Dangale	725	Bieng HC	109	23	44	03.11.17	1	0	0	0		Boat/Island
3	KOLANG		<b>655</b>		<b>92</b>	<b>20</b>	<b>33</b>		<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.kolang 1	0	Bieng HC	92	20	33	03.11.17	1	0	0	0		Boat/Island
		2.Kolang 2	655	Bieng HC										Abandoned
4	BOKURE		<b>615</b>		<b>0</b>	<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Bokure 1	369	Bieng HC										Move to Care-Centre
		2.Bokure 2	246	Bieng HC										Move to Care-Centre
5	ABARIA		<b>703</b>		<b>158</b>	<b>48</b>	<b>86</b>		<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Abaria	703	Bieng HC	158	48	86	03.11.17	1	0	0	0		Boat/Island
6	WARISI		<b>414</b>		<b>206</b>	<b>46</b>	<b>88</b>		<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>		

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		1.Warisi	414	Bieng HC	206	46	88	03.11.17	1	0				Boat/Island
7	DUGULAPA		1,725		978	232	475		3	0	0	90		
		1.Dugulaba 1	1,123	Bieng HC	382	92	178	05.11.17	1	0				Boat/Island
		2.Dugulaba 2		Bieng HC	208	50	105	08.11.17	1	0				Boat/Island
		3.Dugulaba Care centre	602	Bogia HC3	388	90	192	06.11.17	1	0	0	90	Radio Madan	Boat/Island
8	BUDUA		0		0	0	0		0	0	0	0		
		1.Budua	0	Bieng HC										Same as Budua in Yawar
9	MADAURI		616		363	93	186		1	0	0	0		
		1.Madauri	616	Bogia HC3	363	93	186	06.11.17	1	0	0	0	Radio Madan	Boat/Island
10	WAIA		721		498	153	263		1	0	0	0		
		1.Waia	721	Bogia HC3	498	153	263	06.11.17	1	0	0	0	Radio Madan	Boat/Island
11	ZOGARI		1,191		879	183	422		1	0	0	7		
		1.Zogari	1,191	Bogia HC3	879	183	422	06.11.17	1	0	0	7	Radio Madan	Boat/Island
12	IASSA		840		734	150	335		1	0	0	0		
		1.Iassa	840	Bogia HC3	734	150	335	06.11.17	1	0	0	0	Radio Madan	Boat/Island
13	KULUGUMA		1,207		566	124	286		0	0	0	0		
		1.kuluguma	1,207	Bieng HC	566	124	286	03.11.17						Boat/Island
14	BODA		1,440		704	192	354		1	0	0	1		
		1.Boda	1,090	Bogia HC3	704	192	354	06.11.17	1	0	0	1	Radio Madan	Boat/Island
		2.Bieng Cath.Miss	350	Bieng HC										Included under Boda
15	BOISA		672		465	100	218		0	0	0	0		
		1.Boisa	672	Bieng HC	465	100	218	06.11.17						Boat/Island
			0											
<b>YAWAR RURAL</b>			<b>59,510</b>		<b>61,584</b>	<b>11,376</b>	<b>29,822</b>		<b>89</b>	<b>0</b>	<b>0</b>	<b>727</b>	<b>69</b>	<b>0</b>
1	MARANGIS		755		1,066	163	504		0	0	0	0		
		1.Marangis	444	Bunapas HC	570	73	271	26.11.17						Boat/Coastal
		2.Daab-Mangarong	311	Bunapas HC	496	90	233	26.11.17						Boat/Coastal
2	KAYAN		1,900		1,733	279	839		4	0	0	1		
		2.1.Botbot	422	Bogia HC2	391	66	180	06.11.17	1	0	0	0	Radio Madan	Road
		4.2.Kaian	1,034	Bogia HC2	909	128	451	06.11.17	1	0	0	1	Radio Madan	Road
		1.3.Kaian Comm.Sch	37	Bogia HC2	26	6	12	06.11.17	1	0	0	0	Radio Madan	Road
		2.4.Gamai	407	Bogia HC2	407	79	196	06.11.17	1	0	0	0	Radio Madan	Road
3	BOROI		2,031		1,843	412	943		6	0	0	11		
		1.1.Bak	156	Bogia HC2	178	42	88	06.11.17	1	0	0	0	Radio Madan	Road
		1.2.Damur	237	Bogia HC2	221	40	104	06.11.17	1	0	0	2	Radio Madan	Road
		1.3.Gabun	391	Bogia HC2	388	92	219	06.11.17	1	0	0	3	Radio Madan	Road
		2.4.Garik	381	Bogia HC2	359	69	166	06.11.17	1	0	0	6	Radio Madan	Road
		5.Gamei	0	Bogia HC2										Same as Gamai in Ward 2
		1.6. Gabun 2	148	Bogia HC2	132	26	65	06.11.17	1	0	0	0	Radio Madan	Road
		1.7. Kopenarang	174	Bogia HC2	157	38	80	06.11.17	1	0	0	0	Radio Madan	Road
		1.8. Ndaenbin	544	Bogia HC2	408	105	221	06.11.17	0	0	0	0	Radio Madan	Road
4	BULIVA		1,322		1,139	264	567		0	0	0	0		
		1.Buliva	1,004	Bunapas HC	517	125	259	02.11.17	0	0	0	0		Road
		2.Kabuk	319	Bunapas HC	622	139	308	25.11.17	0	0	0	0		Road
5	DAIDEN		745		716	137	483		0	0	0	0		
		1.Daiden	122	Bunapas HC	280	50	294	26.11.17	0	0	0	0		Road
		2.Nemnem	623	Bunapas HC	436	87	189	24.11.17	0	0	0	0		Road
6	DONGAN		2,220		2,125	444	1,045		0	0	0	0		
		1.Dongan	827	Bunapas HC	758	143	383	23.11.17	0	0	0	0		Road/Boat
		2.Goibang 2	577	Bunapas HC	577	143	278	02.11.17	0	0	0	0		Road
		3.Goibang 1	269	Bunapas HC	286	58	132	23.11.17	0	0	0	0		Road
		4.Bunapak	547	Bunapas HC	504	100	252	23.11.17	0	0	0	0		Road/Boat
		5.Bosmun Com.sch	0	Bunapas HC										Included under Bunapak
7	AWAR		849		812	151	396		3	0	0	5		
		1.Awar	490	Bogia HC2	406	80	198	06.11.17	1	0	0	0	Radio Madan	Road
		2.Awar Comm. Sch	35	Bogia HC2	138	21	68	06.11.17	1	0	0	5	Radio Madan	Road
		3.Awar Plantation	324	Bogia HC2	268	50	130	06.11.17	1	0	0	0	Radio Madan	Road
8	NUBIA		1,042		1,009	122	450		4	0	0	0		
		1.Nubia	298	Bogia HC2	351	50	176	06.11.17	1	0	0	0	Radio Madan	Road
		2.Sisimangun	211	Bogia HC2	194	30	88	06.11.17	1	0	0	0	Radio Madan	Road
		3.Nubia Plantation	353	Bogia HC2	382	29	150	06.11.17	1	0	0	0	Radio Madan	Road
		4.Bareng Plantation	179	Bogia HC2	82	13	36	06.11.17	1	0	0	0	Radio Madan	Road
9	BIRAP		1,626		1,842	363	869		0	0	0	0		
		1.Birap	515	Bunapas HC	612	115	287	24.11.17	0	0	0	0		Road
		2.Seven 1	520	Bunapas HC	638	119	296	26.11.17	0	0	0	0		Road
		3.Seven 2	591	Bunapas HC	592	129	286	26.11.17	0	0	0	0		Road
10	RUGUSAK		2,382		2,371	494	1,138		5	0	0	56		
		1.iku	600	Bogia HC2	631	115	295	06.11.17	1	0	0	0	Radio Madan	Road/Coastal
		2.Sangen	292	Igos HC	431	95	203	09.11.17	1	0	0	16	Garamut FM	Road/Coastal
		3.Rugasak 1	434	Bogia HC2	474	97	226	07.11.17	1	0	0	1	Radio Madan	Road/Coastal
		4.Bari	602	Bogia HC2	497	100	239	07.11.17	1	0	0	39	Radio Madan	Road/Coastal
		5.Budua	454	Bogia HC2	338	87	175	06.11.17	1	0	0	0	Radio Madan	Road/Coastal
11	AMBU		1,804		1,672	293	813		5	0	0	0		
		1.Boikulu	482	Bogia HC2	500	86	242	06.11.17	1	0	0	0	Radio Madan	Road/Coastal
		2.Kamasina	199	Bogia HC2	234	42	109	06.11.17	1	0	0	0	Radio Madan	Road/Coastal
		3.Ambu	275	Bogia HC2	212	29	101	06.11.17	1	0	0	0	Radio Madan	Road/Coastal
		4.Kosakosa	439	Bogia HC2	300	65	145	06.11.17	1	0	0	0	Radio Madan	Road/Coastal
		5.Samusamu	409	Bogia HC2	426	71	216	06.11.17	1	0	0	0	Radio Madan	Road/Coastal
12	SEPA		842		813	167	405		4	0	0	0		

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		1.Masawura	178	Bogia HC2	152	29	69	07.11.17	1	0	0	0	Radio Madan	Road/Coastal
		2.Sepa	509	Bogia HC2	436	100	223	07.11.17	1	0	0	0	Radio Madan	Road/Coastal
		3.Simaia	135	Bogia HC2	104	19	48	07.11.17	1	0	0	0	Radio Madan	Road/Coastal
		4.Catholic Mission	20	Bogia HC2	121	19	65	07.11.17	1	0	0	0	Radio Madan	Road/Coastal
13	RUGUSAK		<b>3,176</b>		<b>2,643</b>	<b>527</b>	<b>1,264</b>		<b>5</b>	<b>0</b>	<b>0</b>	<b>25</b>		
		1.Ariap	823	Igos HC	858	139	409	08.11.17	1	0	0	2	Garamut FM	Road
		2.Tiap	538	Igos HC	531	108	262	08.11.17	1	0	0	12	Garamut FM	Road
		3.Tongbur	507	Igos HC	473	88	223	08.11.17	1	0	0	0	Garamut FM	Road
		4.Niapak	925	Igos HC	398	128	187	09.11.17	1	0	0	9	Garamut FM	Road
		5.Warames	382	Igos HC	383	64	183	09.11.17	1	0	0	2	Garamut FM	Road
14	BANAG		<b>280</b>		<b>676</b>	<b>110</b>	<b>316</b>		<b>3</b>	<b>0</b>	<b>0</b>	<b>27</b>		
		1.Mikera	172	Igos HC	170	26	80	07.11.17	1	0	0	11	Garamut FM	Trek 2 Hrs
		2.Banag	109	Igos HC	102	20	47	07.11.17	1	0	0	4	Garamut FM	Trek 2 Hrs
		3.Wakema	NEW	Igos HC	404	64	189	07.11.17	1	0	0	12	Garamut FM	Road
15	GIRI TUNG		<b>1,723</b>		<b>1,900</b>	<b>382</b>	<b>900</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Giri 1	311	Bunapas HC	255	50	125	25.11.17	0	0	0	0		Road
		2.Giri 2	654	Bunapas HC	820	162	384	25.11.17	0	0	0	0		Road
		3.Tung	138	Bunapas HC	152	35	74	25.11.17	0	0	0	0		Road
		4.Garaty	423	Bunapas HC	444	92	201	25.11.17	0	0	0	0		Road
		5.Regene	197	Bunapas HC	229	43	116	25.11.17	0	0	0	0		Road
16	DAMANGAP		<b>1,891</b>		<b>2,030</b>	<b>389</b>	<b>951</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Damangap	199	Bunapas HC	331	50	161	25.11.17	0	0	0	0		Boat
		2.Humkanaan	556	Bunapas HC	560	100	267	02.11.17	0	0	0	0		Boat
		3.Jerikin	289	Bunapas HC	298	72	159	25.11.17	0	0	0	0		Boat
		4.Kukum	451	Bunapas HC	591	117	239	02.11.17	0	0	0	0		Boat
		5.Mbatnemb	245	Bunapas HC	250	50	125	25.11.17	0	0	0	0		Boat
		6.Abdu Comm.sch	151	Bunapas HC					0	0	0	0		Included under Damangap
17	KUMNUNG		<b>468</b>		<b>1,431</b>	<b>273</b>	<b>691</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Akukum	266	Bunapas HC	256	46	136	26.11.17	0	0	0	0		Bunapas HC
		2.kumnung	202	Bunapas HC	733	146	348	26.11.17	0	0	0	0		Bunapas HC
		3.Wanmung	0	Bunapas HC	442	81	207	26.11.17	0	0	0	0		Bunapas HC
18	MINUNG		<b>851</b>		<b>1,630</b>	<b>316</b>	<b>774</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Minung	319	Igos HC	393	83	171	28.11.17	0	0	0	0		Boat
		2.Pir 2	277	Igos HC	800	150	395	28.11.17	0	0	0	0		Boat
		3.Temnung	256	Igos HC	437	83	208	28.11.17	0	0	0	0		Boat
19	KORAK		<b>395</b>		<b>373</b>	<b>70</b>	<b>175</b>		<b>1</b>	<b>0</b>	<b>0</b>	<b>20</b>		
		1.Korak	395	Igos HC	373	70	175	05.11.17	1	0	0	20	Garamut FM	2-3 Hr Trek
		2.Akuiuc	0	Igos HC										Non Existant
20	MIKAREP		<b>2,270</b>		<b>2,076</b>	<b>357</b>	<b>959</b>		<b>5</b>	<b>0</b>	<b>0</b>	<b>134</b>		
		1.Igos	501	Igos HC	409	64	191	09.11.17	1	0	0	8	Garamut FM	Road
		2.Iruari	563	Igos HC	571	117	277	09.11.17	1	0	0	19	Garamut FM	Road
		3.Mikarew	644	Igos HC	558	78	238	09.11.17	1	0	0	27	Garamut FM	Road
		4.Wazangbang	499	Igos HC	513	93	242	09.11.17	1	0	0	77	Garamut FM	Road/Trek
		5.Mikarew C/Sch	63	Igos HC	25	5	11	09.11.17	1	0	0	3	Garamut FM	Road
21	ABEGINI		<b>1,288</b>		<b>1,372</b>	<b>223</b>	<b>641</b>		<b>3</b>	<b>0</b>	<b>0</b>	<b>57</b>		
		1.Abegini	319	Igos HC	462	81	217	07.11.17	1	0	0	18	Garamut FM	Road
		2.Ikemen	603	Igos HC	595	92	280	07.11.17	1	0	0	27	Garamut FM	Road
		3.Zum	366	Igos HC	315	50	144	07.11.17	1	0	0	12	Garamut FM	Road
22	DINAM ADUI		<b>1,874</b>		<b>1,978</b>	<b>330</b>	<b>921</b>		<b>5</b>	<b>0</b>	<b>0</b>	<b>92</b>		
		1.Adui	273	Igos HC	386	58	183	06.11.17	1	0	0	29	Garamut FM	Road
		2.Dinam	467	Igos HC	175	31	85	06.11.17	1	0	0	10	Garamut FM	Road/Trek
		3.Warekam	708	Igos HC	559	94	262	06.11.17	1	0	0	23	Garamut FM	Road
		4.Kum	427	Igos HC	421	81	197	06.11.17	1	0	0	2	Garamut FM	Road/Trek
		5.Dinum Community	0	Igos HC	437	66	194	06.11.17	1	0	0	28	Garamut FM	Road
23	APENGAN		<b>822</b>		<b>745</b>	<b>140</b>	<b>355</b>		<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Apengan 1	457	Bogia HC2	408	75	190	07.11.17	1	0	0	0	Radio Madan	Road
		2.Apengan 2	366	Bogia HC2	337	65	165	07.11.17	1	0	0	0	Radio Madan	Road
24	ARIANGON		<b>2,325</b>		<b>2,280</b>	<b>416</b>	<b>1,108</b>		<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Ariagon	1,312	Ariagon HC2	1,052	191	506	04.11.17	1	0	0	0		Road
		2.Puk	519	Ariagon HC2	511	90	252	03.11.17	1	0	0	0		Road
		3.Ariagon sub H/cntr	0	Ariagon HC2	261	45	130	04.11.17	1	0	0	0		Road
		4.Mari	494	Ariagon HC2	456	90	220	04.11.17	1	0	0	0		Road
25	AMBER AREP		<b>1,730</b>		<b>1,667</b>	<b>394</b>	<b>834</b>		<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Amber	1,154	Ariagon HC2	1,304	300	652	04.11.17	1	0	0	0		4 Hr Trek
		2.Arep	575	Ariagon HC2	363	94	182	04.11.17	1	0	0	0		4 Hr Trek
26	ARINGEN GUN		<b>1,461</b>		<b>1,465</b>	<b>295</b>	<b>708</b>		<b>3</b>	<b>0</b>	<b>0</b>	<b>41</b>		
		1.Aringen	635	Igos HC	608	102	289	05.11.17	1	0	0	0	Garamut FM	3 Hr Trek
		2.Bekun	384	Igos HC	425	96	211	05.11.17	1	0	0	1	Garamut FM	3 Hr Trek
		3.Gun No.1	443	Igos HC	432	97	208	05.11.17	1	0	0	40	Garamut FM	3 Hr Trek
27	DIMUK SIRIN		<b>1,352</b>		<b>1,352</b>	<b>259</b>	<b>668</b>		<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Sirin	741	Ariagon HC2	768	144	358	03.11.17	1	0	0	0		Road
		2.Dimuk	610	Ariagon HC2	584	115	310	05.11.17	1	0	0	0		Road
28	GAIR WAZAMB		<b>1,876</b>		<b>1,998</b>	<b>418</b>	<b>997</b>		<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Beiamp	1,025	Ariagon HC2	1,017	200	511	05.11.17	1	0	0	0		Road
		2.Giar	482	Ariagon HC2	635	148	319	05.11.17	1	0	0	0		Road
		3.Wazamb	369	Ariagon HC2	346	70	167	05.11.17	1	0	0	0		Road
29	ANDEAMARUP		<b>1,822</b>		<b>1,605</b>	<b>340</b>	<b>884</b>		<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Amuk	827	Ariagon HC2	848	175	432	06.11.17	1	0	0	0		Road/3 Hr Trek
		2.Andeamarup	995	Ariagon HC2	757	165	452	06.11.17	1	0	0	0		Road/3 Hr Trek

LLG	WARD	VILLAGE	Estimated 2017 Data Based On 2014 Data	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
30	DUAPMUNG		<b>1,209</b>		<b>1,058</b>	<b>191</b>	<b>505</b>		<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Duapmung	574	Ariagon HC2	492	91	238	06.11.17	1	0	0	0		Road/3 Hr Trek
		2.Mangigum	635	Ariagon HC2	566	100	267	06.11.17	1	0	0	0		Road/3 Hr Trek
31	ANDARUM		<b>1,311</b>		<b>1,341</b>	<b>235</b>	<b>689</b>		<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Andarum	422	Ariagon HC2	460	76	223	07.11.17	1	0	0	0		Road/3 Hr Trek
		2.Raptuk	404	Ariagon HC2	424	71	226	07.11.17	1	0	0	0		Road/3 Hr Trek
		3.Pauvrit	110	Ariagon HC2	134	24	73	07.11.17	1	0	0	0		Road/3 Hr Trek
		4.Sokumu	376	Ariagon HC2	323	64	167	07.11.17	1	0	0	0		Road/3 Hr Trek
32	WARD THIRTY THREE		<b>1,067</b>		<b>1,023</b>	<b>223</b>	<b>520</b>		<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Ingamuk	237	Ariagon HC2	238	50	121	04.11.17	1	0	0	0		Road/3 Hr Trek
		2.Isingen	496	Ariagon HC2	446	99	228	04.11.17	1	0	0	0		Road/3 Hr Trek
		3.Isung	334	Ariagon HC2	339	74	171	04.11.17	1	0	0	0		Road/3 Hr Trek
33	BARITUMBO		<b>2,028</b>		<b>1,774</b>	<b>306</b>	<b>875</b>		<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Barit	540	Ariagon HC2	506	100	249	07.11.17	1	0	0	0		Road/3 Hr Trek
		2.Reng	892	Ariagon HC2	828	106	413	06.11.17	1	0	0	0		Road/3 Hr Trek
		3.Umbo	597	Ariagon HC2	440	100	213	07.11.17	1	0	0	0		Road/3 Hr Trek
34	KAYOMA		<b>3,596</b>		<b>3,916</b>	<b>612</b>	<b>1,823</b>		<b>2</b>	<b>0</b>	<b>0</b>	<b>159</b>		
		1.Wankin	579	Kayoma HC	514	92	246	15.11.17	0	0	0	91	NBC	Boat
		2.Dakit	976	Kayoma HC	1,010	147	496	15.11.17	0	0	0	3	NBC	Boat
		3.Yamu	1,013	Kayoma HC	1,320	200	621	14.11.17	1	0	0	12	NBC	Boat
		4.zukin	765	Kayoma HC	859	139	356	14.11.17	0	0	0	20	NBC	Boat
		5.kayoma	216	Kayoma HC	213	34	104	14.11.17	1	0	0	33	NBC	Boat
		6.Kayoma Sub H/cntr	47	Kayoma HC										Included under Kayoma
35	BANG WOKAM		<b>2,929</b>		<b>2,868</b>	<b>410</b>	<b>1,350</b>		<b>1</b>	<b>0</b>	<b>0</b>	<b>79</b>		
		1.Bangapela	2,023	Kayoma HC	2,032	259	950	14.11.17	1	0	0	76	NBC	Boat
		2.Wokam	905	Kayoma HC	836	151	400	14.11.17	0	0	0	3	NBC	Boat
36	SANAI TARINGI		<b>786</b>		<b>952</b>	<b>151</b>	<b>433</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Taringi	786	Bunapas HC	952	151	433	24.11.17	0	0	0	0		Boat/Trek
37	NAUPI		<b>1,016</b>		<b>1,160</b>	<b>204</b>	<b>537</b>		<b>2</b>	<b>0</b>	<b>0</b>	<b>20</b>		
		1.Naupi 1	311	Bogia HC2	420	80	183	07.11.17	1	0	0	20	Radio Madan	Boat/Trek
		2.Wanam	706	Bogia HC2	740	124	354	07.11.17	1	0	0	0	Radio Madan	Boat/Trek
38	GWAIA AKURAI		<b>1,583</b>		<b>2,317</b>	<b>396</b>	<b>1,099</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Gwaia	1,053	Bunapas HC	1,175	229	563	26.11.17	0	0	0	0		Boat/Trek
		2.Akurai	529	Bunapas HC	616	100	294	26.11.17	0	0	0	0		Boat/Trek
		3Amarong	0	Bunapas HC	526	67	242	26.11.17	0	0	0	0		Boat/Trek
39	BOGIA URBAN		<b>863</b>		<b>813</b>	<b>120</b>	<b>393</b>		<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Bogia Urban	863	Bogia HC2	813	120	393	07.11.17	1	0	0	0	Radio Madan	Bogia HC

## ANNEX TWO

MADANG PROVINCE  
MADANG DISTRICT POPULATION 2017  
LLIN DISTRIBUTION SUMMARY SHEET

LLG	WARD	VILLAGE	Estimated 2017 Data Based On 2014 Data	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Digicel	Emobile	Citifon	Houses With Radios	Radio Networks	Comment
<b>MADANG</b>			<b>162,901</b>		<b>165,788</b>	<b>28,473</b>	<b>80,123</b>		<b>262</b>	<b>207</b>	<b>0</b>	<b>6,116</b>	<b>227</b>	
<b>AMBENOB RURAL</b>			<b>98,321</b>		<b>97,646</b>	<b>18,190</b>	<b>47,313</b>		<b>153</b>	<b>109</b>	<b>0</b>	<b>5,206</b>	<b>143</b>	
1	WARD 2		<b>9,676</b>		<b>4,945</b>	<b>1,034</b>	<b>2,601</b>		<b>7</b>	<b>7</b>	<b>0</b>	<b>106</b>		
		1.Foran&Sisiak (019)	6,684	Sisiak HC	2044	407	1,068	29-30.10.17	1	1	0		NBC	Road
		2.Mirkuk	313	Sisiak HC	474	81	238	30-31.10.17	1	1	0	26	NBC	Road
		3.Panim	820	Sisiak HC	1038	237	560	30.10.17	1	1	0		NBC	Road
		4.Yahil	557	Sisiak HC	411	92	214	30-31.10.17	1	1	0	26	NBC	Road
		5.Basi	0	Sisiak HC										Same as Furan
		6.Beon Correctv Inst.	776	Sisiak HC	494	135	276	30.10.17	1	1	0	29	NBC	Road
		7.Rv-Yawat	159	Sisiak HC	298	43	149		1	1	0		NBC	Book not returned
		8.Mengku	367	Sisiak HC	186	39	96	30-31.10.17	1	1	0	25	NBC	Road
2	WARD 3		<b>2,188</b>		<b>1,939</b>	<b>316</b>	<b>935</b>		<b>6</b>	<b>6</b>	<b>0</b>	<b>83</b>		
		1.Korog 1	382	Sisiak HC	349	61	172	19-20.10.17	1	1	0	14	NBC	Road/Trek
		2.Korog 2	146	Sisiak HC	109	17	50	19-20.10.17	1	1	0		NBC	Road/Trek
		3.Opi	398	Sisiak HC	313	38	156	19-20.10.17	1	1	0	20	NBC	Road/Trek
		4.Urugun	299	Sisiak HC	277	50	134	19-20.10.17	1	1	0	13	NBC	Road/Trek
		5.Barhim 1	638	Sisiak HC	588	100	276	19-20.10.17	1	1	0	15	NBC	Road/Trek
		6.Barhim 2	324	Sisiak HC	303	50	147	19-20.10.17	1	1	0	21	NBC	Road/Trek
3	WARD 4		<b>5,992</b>		<b>6,512</b>	<b>1,224</b>	<b>3,185</b>		<b>6</b>	<b>6</b>	<b>0</b>	<b>529</b>		
		1.Butelgut	457	Sisiak HC	428	92	207	15-17.10.17	1	1	0	14	NBC	Road
		2.Kamba	1,206	Sisiak HC	1189	269	604	23.10.17	1	1	0	60	NBC	Road
		3.Kauris	810	Sisiak HC	808	151	379	23.10.17	1	1	0	66	NBC	Road
		4.Mis	1,992	Sisiak HC	2329	394	1123	17-18.10.17	1	1	0	289	NBC	Road
		5.Silibob	743	Sisiak HC	697	121	350	17.10.17	1	1	0	100	NBC	Road
		6.Sagalau	785	Sisiak HC	1061	197	522	17-18.10.17	1	1	0		NBC	Road
4	WARD 5		<b>4,694</b>		<b>4,983</b>	<b>894</b>	<b>2,369</b>		<b>7</b>	<b>7</b>	<b>0</b>	<b>167</b>		
		1.Siar	0	Baitabag HC										Main ward name
		2.Siar Plantation	896	Baitabag HC	1,010	197	481	27.10.17	1	1	0	30	FM;NBC	Road
		4.Siar Central	1,135	Baitabag HC	1,256	232	600	27.10.17	1	1	0	31	FM;NBC	Road
		5.Siar Nirau	356	Baitabag HC	578	96	273	27.10.17	1	1	0	21	FM;NBC	Road
		6.Siar Ulden/Damon	643	Baitabag HC	791	91	369	27.10.17	1	1	0	42	FM;NBC	Road
		7.Siar Dala/Lipan	528	Baitabag HC	640	159	310	27.10.17	1	1	0	4	FM;NBC	Road
		8.Siar Island	633	Baitabag HC	358	69	178	27.10.17	1	1	0	2	FM;NBC	Boat
		9.Siar Libdamon	264	Baitabag HC										Non Existant
		10.Siar Plantation	240	Baitabag HC	350	50	158	27.10.17	1	1	0	37	FM;NBC	Road
5	WARD 6		<b>8,227</b>		<b>10,328</b>	<b>1,962</b>	<b>4,963</b>		<b>6</b>	<b>6</b>	<b>0</b>	<b>613</b>		
		1.Malamal	1,300	Baitabag HC	1,597	347	765	31.10.17	1	1	0	101	FM;NBC	Road
		2.Riwo	3,536	Baitabag HC	3,891	849	1,875	31.10.17	1	1	0	109	FM;NBC	Road
		3.Nagada Pltn/kristen	1,412	Baitabag HC	1,000	177	483	25.10.17	1	1	0	176	FM;NBC	Road
		4.Nagada Block/Daleb	1,486	Baitabag HC	2,037	291	977	25.10.17	1	1	0	88	FM;NBC	Road
		4.Nagada village	NEW	Baitabag HC	1,310	200	626	25.10.17	1	1	0	119	FM;NBC	Road
		5.Pau	492	Baitabag HC	493	98	237	31.10.17	1	1	0	20	FM;NBC	Road
6	WARD 7		<b>5,674</b>		<b>9,037</b>	<b>1,680</b>	<b>4,303</b>		<b>14</b>	<b>14</b>	<b>0</b>	<b>336</b>		
		1.Ambarina Com.Sch	111	Baitabag HC	343	68	159	25.10.17	1	1	0	29	FM;NBC	Road
		2.Ambron	858	Baitabag HC	771	150	362	25.10.17	1	1	0	4	FM;NBC	Road
		3.Balepa	166	Baitabag HC	249	50	125	25.10.17	1	1	0	11	FM;NBC	Road
		4.Baitap	1,732	Baitabag HC	1,559	242	743	25.10.17	1	1	0	40	FM;NBC	Road
		5.Bitop	197	Baitabag HC	223	50	107	25.10.17	1	1	0	32	FM;NBC	Road
		6.Damaika	107	Baitabag HC	269	49	130	25.10.17	1	1	0	18	FM;NBC	Road
		7.Gamoi	875	Baitabag HC	1,896	352	905	25.10.17	1	1	0	41	FM;NBC	Road
		8.Guntabag	372	Baitabag HC	227	50	107	25.10.17	1	1	0	6	FM;NBC	Road
		9.Nabonob	173	Baitabag HC										Non Existant
		10.Amron Luth.Miss	261	Baitabag HC	271	50	128	25.10.17	1	1	0	12	FM;NBC	Road
		11.Baitabag Luth.Miss	258	Baitabag HC	232	36	110	25.10.17	1	1	0	11	FM;NBC	Road
		12. Baitabag	564	Baitabag HC	494	106	236	25.10.17	1	1	0	22	FM;NBC	Road
		13. Gatba	NEW	Baitabag HC	380	77	179	25.10.17	1	1	0	21	FM;NBC	Road
		14. Matupi	NEW	Baitabag HC	1,280	250	612	25.10.17	1	1	0	65	FM;NBC	Road
		15. Pau 2	NEW	Baitabag HC	843	150	400	25.10.17	1	1	0	24	FM;NBC	Road
7	WARD 8		<b>4,350</b>		<b>4,001</b>	<b>690</b>	<b>1,963</b>		<b>9</b>	<b>9</b>	<b>0</b>	<b>57</b>		
		1.Budad	633	Alexishafen HC	811	148	398	02.11.17	1	1	0	7	BC MADAN	Road
		2.Hapurpi	268	Alexishafen HC										Covered under ward 9
		3.Haven	860	Alexishafen HC	761	150	373	03.11.17	1	1	0	6	BC MADAN	Road
		4.Mebat	1,086	Alexishafen HC	802	122	393	03.11.17	1	1	0	33	BC MADAN	Road
		5.Bagawa	695	Alexishafen HC	513	74	252	03.11.17	1	1	0	0	BC MADAN	Road
		6.Hibirdiuk	0	Alexishafen HC	150	27	74	03.11.17	1	1	0	0	BC MADAN	Road
		7.Motanau	293	Alexishafen HC	139	31	68	05.11.17	1	1	0	8	BC MADAN	Road
		8.Street Fidelis ClIge	288	Alexishafen HC	133	8	65	03.11.17	1	1	0	0	BC MADAN	Road
		Narai	227	Alexishafen HC	289	46	142	03.11.17	1	1	0	1	BC MADAN	Road
		Maren	NEW	Alexishafen HC	403	84	198	03.11.17	1	1	0	2	BC MADAN	Road
8	WARD 9		<b>1,577</b>		<b>1,301</b>	<b>250</b>	<b>621</b>		<b>4</b>	<b>4</b>	<b>0</b>	<b>58</b>		
		1.Gegeri	277	Alexishafen HC	242	50	119	04.11.17	1	1	0	6	BC MADAN	Road
		2.Guhup	147	Alexishafen HC										Included Under Belam
		3.Haimo	292	Alexishafen HC										This Village is in Ward 12
		4.Mukuru	317	Alexishafen HC	543	100	267	04.11.17	1	1	0	30	BC MADAN	Trek

LLG	WARD	VILLAGE	Estimated 2017 Data Based On 2014 Data	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
		5.Wangar	218	Alexishafen HC										Included Under Hupurpi
		6.Belan	326	Alexishafen HC	275	50	126	04.11.17	1	1	0	12	BC MADAN	Trek
		Hapurpi	NEW	Alexishafen HC	241	50	109	04.11.17	1	1	0	10	BC MADAN	Trek
9	WARD 10		6,167		6,740	1,300	3,285		10	10	0	217		
		1.Mabenob	757	Alexishafen HC	672	150	329	02.11.17	1	1	0	26	BC MADAN	Road
		2.Sek	0	Alexishafen HC	351	50	171	02.11.17	1	1	0	2	BC MADAN	Road
		3.Dapu	626	Alexishafen HC	758	150	371	02.11.17	1	1	0	37	BC MADAN	Road
		4.Alexishafen Cath.Miss	504	Alexishafen HC	336	50	165	02.11.17	1	1	0	23	BC MADAN	Road
		5.Susu Banis	670	Alexishafen HC	731	118	358	02.11.17	1	1	0	0	BC MADAN	Road
		6.Vidar	582	Alexishafen HC	1044	193	511	02.11.17	1	1	0	49	BC MADAN	Road
		7.Danip	241	Alexishafen HC	470	94	217	02.11.17	1	1	0	11	BC MADAN	Road
		8.Kananam	1,622	Alexishafen HC	1283	323	631	02.11.17	1	1	0	69	BC MADAN	Road
		9.Tagog Community	231	Alexishafen HC										Abandoned due to Tribal Fight
		10.Bigas	390	Alexishafen HC	567	100	278	02.11.17	1	1	0	0	BC MADAN	Road
		11.Iduan Island	544	Alexishafen HC	528	72	254	07.11.17	1	1	0	0	BC MADAN	Boat
10	WARD 11		304		933	141	450		0	0	0	2		
		1.Bagupi	0	Alexishafen HC										Non Existant
		2.Itapi	65	Alexishafen HC	253	39	124	07.11.17	0	0	0	2	BC MADAN	1 Day Trek
		3.Nake	176	Utu HC	369	54	177	09.10.17	0	0				Covered Under Utu HC
		4.Saruga	63	Utu HC	311	48	149	10.10.17	0	0				Covered Under Utu HC
11	WARD 12		574		906	183	448		6	6	0	128		
		1.Abar	62	Alexishafen HC	55	12	27	06.11.17	1	1	0	10	BC MADAN	Trek
		2.Aluak	213	Alexishafen HC	272	50	135	06.11.17	1	1	0	50	BC MADAN	Road
		3.Garigut	174	Alexishafen HC	167	36	82	06.11.17	1	1	0	21	BC MADAN	Trek
		4.Lapting	126	Alexishafen HC	127	26	63	06.11.17	1	1	0	20	BC MADAN	Trek
		Haimo	NEW	Alexishafen HC	262	50	129	06.11.17	1	1	0	26	BC MADAN	(New Village) Trek
		Gog	NEW	Alexishafen HC	23	9	12	06.11.17	1	1	0	1	BC MADAN	(New Village) Trek
12	WARD 13		1,623		1,779	387	869		3	3	0	176		
		1.Baiteta	822	Alexishafen HC	920	221	451	04.11.17	1	1	0	101	BC MADAN	Road
		2.Budip	283	Alexishafen HC	389	75	191	04.11.17	1	1	0	37	BC MADAN	Trek
		3.Hipondik	518	Alexishafen HC	470	91	227	04.10.17	1	1	0	38	BC MADAN	Trek
13	WARD 14		2,548		2,940	764	1,386		4	0	0	348		
		1.Balima	1,121	Yagaum HC	786	364	387	16.10.17	1	0	0	120	FM	Road
		2.Dogia	836	Yagaum HC	836	151	375	16.10.17	1	0	0	124	FM	Road
		3.Maraga	452	Yagaum HC	501	100	239	16.10.17	1	0	0	11	FM	Road
		4.Kusubur	140	Yagaum HC	817	149	385	16.10.17	1	0	0	93	FM	Road
14	WARD 15		3,772		3,415	767	1,678		9	4	0	421		
		1.Aiha	895	Yagaum HC	588	206	292	15.10.17	1	0	0	77	adio Madar	Road
		2.Aiyap	656	Yagaum HC	284	72	181	14.10.17	1	1	0	48	adio Madar	Road
		3.Medo	325	Yagaum HC	372	93	191	14.10.17	1	0	0	52	adio Madar	Road
		4.Haiya	231	Yagaum HC	349	77	163	14.10.17	1	1	0	73	adio Madar	Road
		5.Mirhanak	156	Yagaum HC	280	50	133	15.10.17	1	0	0	38	adio Madar	Road
		6.Salugu	501	Yagaum HC	711	141	338	14.10.17	1	0	0	97	adio Madar	Road
		7.Hilolo	354	Yagaum HC	351	50	165	14.10.17	1	0	0	9	adio Madar	Road
		8.Hilu	54	Yagaum HC	205	34	95	15.10.17	1	1	0	1	adio Madar	Road
		9.Malac	599	Yagaum HC	275	44	120	14.10.17	1	1	0	26	adio Madar	Road
15	WARD 16		4,645		5,430	824	2,525		5	2	0	313		
		1.Aguru	1,224	Yagaum HC	1,085	190	516	15.10.17	1	1	0	127	adio Madar	Road
		2.Banup	1,348	Yagaum HC	2,122	294	1,020	15.10.17	1	0	0	69	adio Madar	Road
		3.Ohuru	1,335	Yagaum HC	1,269	227	586	15.10.17	1	0	0	49	adio Madar	Road
		4.Sein	476	Yagaum HC	712	84	290	15.10.17	1	1	0	61	adio Madar	Road
		5.Yagaum Hospital	262	Yagaum HC	242	29	113	15.10.17	1	0	0	7	adio Madar	Road
16	WARD 17		6,333		5,266	952	2,612		9	8	0	355		
		1.Bahor	329	Yagaum HC	408	70	168	14.10.17	1	1	0	6	FM	Road
		2.Bilbil	1,374	Yagaum HC	1,231	214	598	14.10.17	1	1	0	21	adio Madar	Road
		3.Hudini	700	Yagaum HC	720	140	345	15.10.17	1	1	0	91	adio Madar	Road
		4.Ord	472	Yagaum HC	312	52	158	15.10.17	1	1	0	40	adio Madar	Road
		5.So	345	Yagaum HC	314	41	144	15.10.17	1	0	0	16	adio Madar	Road
		6.Umuin	1,100	Yagaum HC	869	205	550	18.10.17	1	1	0	55	adio Madar	Road
		7.Waguk	859	Yagaum HC	286	51	127	14.10.17	1	1	0	47	adio Madar	Hilu Ward 15 near by Village
		8.Mahaban	831	Yagaum HC	884	135	409	14.10.17	1	1	0	35	adio Madar	Road
		9.Sahgala	322	Yagaum HC	242	44	113	14.10.17	1	1	0	44	FM	Road
17	WARD 18		3,136		3,433	605	1,606		6	4	0	332		
		1.Hilu	0	Yagaum HC	197	50	100	17.10.17	1	1	0	8	adio Madar	Road
		2.Kesup	1,844	Yagaum HC	1,423	219	637	14.10.17	1	1	0	55	adio Madar	Road
		3.Yelso	680	Yagaum HC	1,033	195	494	14.10.17	1	0	0	152	adio Madar	Road
		4.Danben Station	612	Yagaum HC	348	55	169	14.10.17	1	1	0	31	FM	Road
		5.Pindiu	0	Yagaum HC										Covred by OA
		6.Huben	NEW	Yagaum HC	298	50	133	14.10.17	1	1	0	50	adio Madar	Road
		7. Wafen	NEW	Yagaum HC	134	36	73	14.10.17	1	0	0	36	adio Madar	Road
18	WARD 19		5,129		4,183	734	1,977		7	0	0	430		
		1.Amele	255	Yagaum HC	250	55	119	14.10.17	1	0	0	31	adio Madar	Road
		2.Moilsehu	665	Yagaum HC	810	113	376	16.10.17	1	0	0	59	adio Madar	Road
		3.Ohu	1,357	Yagaum HC	1,252	219	607	15.10.17	1	0	0	174	adio Madar	Road
		4.Omuru	948	Yagaum HC	774	183	366	14.10.17	1	0	0	70	adio Madar	Road
		5.Sah	220	Yagaum HC	422	50	183	14.10.17	1	0	0	50	adio Madar	Road
		6.Suah	584	Yagaum HC										Included under moilsehu
		7.Hill	874	Yagaum HC	499	83	241	16.10.17	1	0	0	17	adio Madar	Road
		8.Omuru DPI Station	0	Yagaum HC	176	31	85	15.10.17	1	0	0	29	adio Madar	Road
19	WARD 20		4,242		3,909	734	1,863		7	1	0	105		

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		1.Bau	887	Yagaum HC	612	129	288	16.10.17	1	0	0	4	FM	Road
		2.Dalam	490	Yagaum HC	798	145	382	14.10.17	1	1	0	56	adio Madar	Road
		3.Guman	526	Yagaum HC	596	99	287	14.10.17	1	0	0	1	adio Madar	Road
		4.Dae	266	Yagaum HC	120	20	53	14.10.17	1	0	0	4	adio Madar	Road
		5.Bagu	499	Yagaum HC	375	62	173	16.10.17	1	0	0	7	adio Madar	Road
		6.Umun	1,086	Yagaum HC	935	179	444	14.10.17	1	0	0	6	adio Madar	Road
		7.Bau com.sch&voc.cntnr	0	Yagaum HC										Included under Bau
		<b>NEW Bufalo</b>	488	Yagaum HC	473	100	236	14.10.17	1	0	0	27	adio Madar	Road
20	WARD 21		<b>3,892</b>		<b>3,745</b>	<b>663</b>	<b>1,774</b>		<b>5</b>	<b>1</b>	<b>0</b>	<b>374</b>		
		1.Bemahal	748	Yagaum HC	942	178	445	19.10.17	1	0	0	63	adio Madar	Road
		2.Bauk	529	Yagaum HC	456	94	216	18.10.17	1	0	0	45	adio Madar	Road
		3.Lagaha	286	Yagaum HC	331	50	147	18.10.17	1	0	0	45	adio Madar	Road
		4.Dolonu	535	Yagaum HC	418	98	195	16.10.17	0	0	0	50	FM	Road
		5.Efu	880	Yagaum HC	912	93	417	16.10.17	1	1	0	89	FM	Road
		6.Fulumu	913	Yagaum HC	686	150	354	18.10.17	1	0	0	82		Road
		7.Bemahal com.sch	0	Yagaum HC										Included under Bemahal
21	WARD 22		<b>1,677</b>		<b>1,518</b>	<b>285</b>	<b>712</b>		<b>8</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Arar	181	Utu HC	154	27	71	16.10.17	1	0	0			Road
		2.Autabak	185	Utu HC	175	39	92	17.10.17	1	0	0			Road
		3.Bidimai	248	Utu HC	185	34	88	17.10.17	1	0	0			Road
		4.Gal 1	379	Utu HC	409	76	190	17.10.17	1	0	0			Road
		5.Gal 2	259	Utu HC	156	32	71	16.10.17	1	0	0			Road
		6.Matepi	222	Utu HC	215	35	97	17.10.17	1	0	0			Road
		7.Sanepi	203	Utu HC	175	30	81	16.10.17	1	0	0			Road
		8.Maneb	0	Utu HC	49	12	22	17.10.17	1	0	0			Road
22	WARD 23		<b>2,673</b>		<b>2,489</b>	<b>405</b>	<b>1,183</b>		<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Asikan	670	Utu HC	324	49	152	11.10.17	0	0	0			Road
		2.Guteb	231	Utu HC	173	26	82	08.10.17	0	0	0			Road
		3.Silopi	322	Utu HC	326	63	153	12.10.17	1	0	0			Road
		4.Utu	1,450	Utu HC	1081	175	509	08.10.17	1	0	0			Road
		5.Giroro		Utu HC	249	46	126	11.10.17	1	0	0			
		6.Maroro		Utu HC	336	46	161	13.10.17	1	0	0			
23	MADANG URBAN		<b>9,229</b>		<b>7,914</b>	<b>1,396</b>	<b>4,005</b>		<b>11</b>	<b>11</b>	<b>0</b>	<b>56</b>		
		1.Yomba no.2 Vllge	241	Modilon Hos	521	124	278	17.10.17	1	1	0		NBC	Road
		2.Yomba no.2&Dump	488	Modilon Hos	217	40	112	17.10.17	1	1	0	39	NBC	Road
		3.Jomba Is.Yabob Vllge	1,178	Modilon Hos	997	175	504	23-24.10.17	1	1	0		NBC	Road
		4.Wasilo Settlement	598	Modilon Hos	497	84	244	24.10.17	1	1	0		NBC	Road
		5.Balab Vllge	270	Modilon Hos	298	41	146	27.10.17	1	1	0		NBC	Road
		6.Gusin	1,622	Modilon Hos	517	100	266	27-29.10.17	1	1	0		NBC	Road
		7.Sisiak Vllge	0	Sisiak HC					1	1	0		NBC	Under Ward#2 Furan
		8.Kranket island	2,085	Modilon Hos	1972	396	1012	16-17.10.17	1	1	0		NBC	Boat
		9.Bilia Is./Mainland	1,559	Modilon Hos	1663	243	826	25.10.17	1	1	0		NBC	Road
		10.Kranket Is	545	Modilon Hos	666	93	337	18.10.17	1	1	0	17	NBC	Boat
		11.Rai Coast S/ment	0	Modilon Hos	0	0	0		0	0	0		NBC	included under Kranget
		12.Pana/Ulifun Island	643	Modilon Hos	566	100	280	17-18.10.17	1	1	0		NBC	Boat
			0											
		<b>MADANG URBAN</b>	<b>34,752</b>		<b>39,365</b>	<b>5,473</b>	<b>19,190</b>		<b>56</b>	<b>98</b>	<b>0</b>	<b>335</b>	<b>60</b>	
1	MADANG URBAN		<b>34,752</b>		<b>39,365</b>	<b>5,473</b>	<b>19,190</b>		<b>56</b>	<b>98</b>	<b>0</b>	<b>335</b>		
		1.Aburon Road	36	Modilon Hos2	301	50	150	26-27.10.17	1	1	0	50	NBC	Road
		2.Yabob Road	92	Modilon Hos2	213	37	109	26-29.10.17	1	1	0	50	NBC	Road
		3.Jant Compound	799	Modilon Hos2	1586	208	773	25-27.10.17	1	1	0		NBC	Road
		4.Finch/Simbai Sttlmnt	680	Modilon Hos2	1162	148	554	23-24.10.17	1	1	0		NBC	Road
		5.Bung PI Sec:105	356	Modilon Hos2										Covered by Finch Simbai
		6.Sung PI Sec:125/126	1,869	Modilon Hos2										Covered by Jant Compund
		7.Luan/Wadu Street	444	Modilon Hos2	764	82	361	26-27.10.17	1	1	0		NBC	Road
		8.Gaudidi Rd S:113/114	1,354	Modilon Hos2	1726	265	807	27.29.10.17	1	1	0		NBC	Road
		9.Honpain Cres	603	Modilon Hos2	388	50	191	25-27.10.17	1	1	0		NBC	Road
		10.Modilon Rd	555	Modilon Hos2	302	50	147	23-24.10.17	1	1	0		NBC	Books missing
		11.Kibilak Cress	985	Modilon Hos2	406	50	203	20-21.10.17	1	1	0		NBC	Road
		12.Kuperu Rd	230	Modilon Hos2	271	36	139	21-23.10.17	1	1	0		NBC	Road
		13.Taled St	264	Modilon Hos2	413	50	182	21-23.10.17	1	1	0		NBC	Road
		14.Bundi Sttlmnt	1,067	Modilon Hos2	814	141	412	24-25.10.17	1	1	0		NBC	Road
		15.Sepik/Bogia Settl.	333	Modilon Hos2	456	50	218	26.10.17	1	1	0		NBC	Road
		16.Madang/Sepik Sett.	0	Modilon Hos2										Same as Biliau Sepik#17
		17.Biliau/Sepik Sett.	1,006	Modilon Hos2	1731	308	867	25-26.10.17	1	1	0		NBC	Road
		18.Nicholai Machlay Dr	303	Modilon Hos2	455	50	201	21-22.10.17	1	1	0		NBC	Road
		19.Bemlon St	30	Modilon Hos2	377	50	181	21-23.10.17	1	1	0		NBC	Road
		20.Madang Prov.Govt H/Q	405	Modilon Hos2	936	100	430	21-23.10.17	1	1	0		NBC	Road
		21.Ambusa St	259	Modilon Hos2	431	64	227	21-23.10.17	1	1	0		NBC	Road
		22.Modilon St S:12	0	Modilon Hos2	245	50	125	21-23.10.17	1	1	0		NBC	Road
		23.Hundi St	1,058	Modilon Hos2										Included with Nabasa
		24.Lotu St	0	Modilon Hos2	703	100	338	25.10.17	1	1	0		NBC	1 bk missing
		25.SDA Mission	82	Modilon Hos2	82	18	45		1	1	0		NBC	Road
		26.DCA Staff Resid	578	Modilon Hos2	622	100	296	25-26.10.17	1	1	0		NBC	Road
		27.DCA Nambis/Luth.Comp.	363	Modilon Hos2	947	153	479	26-27.10.17	1	1	0	106	NBC	Road
		28.Tusbab High/Madang Tech	636	Modilon Hos2	204	28	104	24.10.17	1	1	0	29	NBC	Road
		29.Coronation Dr S:42/37	0	Modilon Hos2										Included under Coronation Dr
		30.Ling St Sec:29	417	Modilon Hos2										Included under admin Comp
		31.Admin Comp.	901	Modilon Hos2	1119	130	535	24-26.10.17	1	1	0	0	NBC	Road
		32.Bougainville Dr	200	Modilon Hos2	430	62	216	24-26.10.17	1	1	0	57	NBC	Road

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		33.Ixora Av.S:33/36	21	Modilon Hos2	436	48	212	31-01.11.17	1	1	0	43	NBC	Road
		34.Madang Golf Club	295	Modilon Hos2										Included under Regina Avenue
		35.Binnen Rd S:9/10	312	Modilon Hos2	372	48	176	31-01.11.17	1	1	0		NBC	Road
		36.Sir Donald Cleland Pk.	222	Modilon Hos2										Included with Bauhina Avenue
		37.Bauhina Avenue	294	Modilon Hos2	380	48	181	31-01.11.17	1	1	0		NBC	Road
		38.Gardenia Lane	0	Modilon Hos2	0	0	0		0	0	0	0	NBC	Included under Poinciana st
		39.Poiciana St	155	Modilon Hos2	350	50	169	03.10.17	1	1	0		NBC	Road
		40.Coastwatchers Av.	168	Modilon Hos2	337	49	173	03.10.17	1	1	0		NBC	Road
		41.Madang Commercial	0	Modilon Hos2									NBC	Covered under admin Comp
		42.Abatoir Settl.	0	Modilon Hos2	551	100	286	24.10.17	1	1	0		NBC	Road
		43.Ramu Settl.	137	Modilon Hos2	272	50	131	24.10.17	1	1	0		NBC	Road
		44.Madang TTC P/Farm	0	Modilon Hos2									NBC	Included under Abatoir
		45.Sisiak	0	Modilon Hos2									NBC	Same as Sisiak #3
		46.Modilon Hosp.Area	1,424	Modilon Hos2	494	99	272	21-23.10.17	1	1	0		NBC	This books missing
		47.Laiwaden Oval	234	Modilon Hos2										covered by Admin/ Kusbau
		48.Coronation Dr S:34	323	Modilon Hos2	249	28	125	31-01.11.17	1	1	0		NBC	Road
		49.Dai Cres.	0	Modilon Hos2	100	12	49	31-01.11.17	1	1	0		NBC	Road
		50.Regina Av.	755	Modilon Hos2	1262	125	571	03.10.17	1	1	0		NBC	Road
		51.Divine word Uni.	1,128	Modilon Hos2	377	50	196	25.10.17	1	1	0		NBC	Road
		52.Sisiak No.3	0	Modilon Hos2	3427	473	1622	2-3.11.17	1	1	0		NBC	Road
		53.Sisiak	0	Modilon Hos2	1055	150	502	2-3.11.17	1	1	0		NBC	Road
		54.Finch/Saidor Settl.	492	Modilon Hos2										Included with Finch settlement
		55.Sisiak No.3 Settl.	0	Modilon Hos2										Sames as #52 sisiak#3
		56.Sepik Settl.(Simbai)	459	Modilon Hos2										Included with Sisiak
		57.Wagol Sepik Settl.	1,163	Modilon Hos2	2276	223	1060	23.10.17	1	1	0	0	NBC	Road
		58.Fikus Settl.No.1	222	Modilon Hos2	418	50	213	25.10.17	1	1	0	0	NBC	1 bk missing / Book with volunteer
		59.Fikus Settl.No.2	850	Modilon Hos2	463	50	212	25.10.17	1	1	0	0	NBC	Road
		60.Sepik Settl.(Kambramba)	920	Modilon Hos2	738	90	365	26-27.10.17	1	1	0	0	NBC	Road
		61.Sepik Settl.	360	Modilon Hos2	805	150	405	24-25.10.17	1	1	0	0	NBC	Road
		62.Kerema Settl.	1,029	Modilon Hos2	982	100	492	25-26.10.17	1	1	0	0	NBC	Road
		63.Caa-camp Sepik Sett.	1,318	Modilon Hos2										Same as #61
		64.Wotade Settl.	0	Modilon Hos2										Same as Wasale
		65.Meiro Camp Sett.	657	Modilon Hos2	1083	200	559	25-26.10.17	1	1	0	0	NBC	Road
		66.Karka Comp.	1,152	Modilon Hos2	291	50	147	24-25.10.17	1	43	0	0	NBC	Road
		67.Angarom Sett.	303	Modilon Hos2										Non Exist
		68.Biliau Vllge Baidal Rd	1,407	Modilon Hos2	463	77	237	25-26.17	1	1	0	0	NBC	Road
		69.Sisiak Area	0	Modilon Hos2	409	49	206	2-3.11.17	1	1	0	0	NBC	Road
		70.Maprik S'ment	865	Modilon Hos2	263	50	131	22.10.17	1	1	0	0	NBC	Road
		71.Sisiak S'ment	0	Modilon Hos2	1746	298	917	22-31.10.17	1	1	0	0	NBC	Road
		72.Finchhafen Sett.	566	Modilon Hos2	1159	132	553	25-26.17	1	1	0	0	NBC	Road
		73.Lumi Sett.	0	Modilon Hos2	816	98	391	25-26.10.17	1	1	0	0	NBC	Road
		74.Sepik/Bogia Sett.	333	Modilon Hos2										Same as #15
		75.Maprik/Sepik Sett.	0	Modilon Hos2										Same as #70 Maprik stment
		76.Sepik/Ramu Sett.	0	Modilon Hos2	309	50	156	26-27.10.17	1	1	0	0	NBC	Road
		77.Biliau vllge	372	Modilon Hos2										Same as Biliau
		78.Wotade Sett.	0	Modilon Hos2										Same as Wasala
		79.Kalibobo Dr.	81	Modilon Hos2										Covered under Regina Avenue
		80.Coralita St.	0	Modilon Hos2										Covered under Regina Avenue
		81.Madang Shop.Cntr	0	Modilon Hos2										included with Regina Avenue
		82.Madang Timbers	356	Modilon Hos2	398	46	191	25-26.10.17	1	1	0		NBC	Road
		83.Madang Wharf	0	Modilon Hos2										included with Regina Avenue
		84.Petrea/Lassia Av.	477	Modilon Hos2										Included with ixora avenue
		85.Binnen Harbour	0	Modilon Hos2										Included With Admin Comp
			0											
		<b>TRANSGOGAL RURAL</b>	<b>29,827</b>		<b>28,777</b>	<b>4,810</b>	<b>13,620</b>		<b>53</b>	<b>0</b>	<b>0</b>	<b>575</b>	<b>24</b>	
	1	<b>WARD ONE</b>	<b>1,555</b>		<b>1,240</b>	<b>172</b>	<b>601</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Baimak	525	Utu HC2	439	60	210	10.10.17	0	0				Road
		2.Barik	129	Utu HC2										Included under Baimak
		3.Meginam	299	Utu HC2	179	36	100	10.10.17	0	0				Road
		4.Wanif	338	Utu HC2	374	41	172	08.10.17	0	0				Road
		5.Lowo	264	Utu HC2	248	35	119	08.10.17	0	0				Road
	2	<b>WARD TWO</b>	<b>3,964</b>		<b>3,607</b>	<b>626</b>	<b>1,766</b>		<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Gumalu	1,269	Utu HC2	924	146	449	14.10.17	1	0				Road
		2.Mawan	1,245	Utu HC2	633	86	299	13.10.17	1	0				Road
		3.Silaul	826	Utu HC2	1061	234	536	15.10.17	1	0				Road
		4.Oupan	534	Utu HC2	440	75	209	18.10.17	1	0				Road
		5.Ara Town Mawan P.sch	91	Utu HC2	281	40	139	13.10.17	1	0				Road
		6.Baku Forestry Camp	0	Utu HC2	144	24	78	16.10.17	1	0				Road
		7.Jant Camp Mawan	0	Utu HC2	124	21	56	16.10.17	1	0				Road
	3	<b>WARD THREE</b>	<b>3,854</b>		<b>3,634</b>	<b>480</b>	<b>1,639</b>		<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Amaimon	1,075	Utu HC2	725	120	346	20.10.17	1	0				Road
		2.Tebinsarik	1,248	Utu HC2	1155	194	549	19.10.17	1	0				Road
		3.Wabusarik	675	Utu HC2	790	91	352	19.10.17	1	0				Road
		4.Kraimasarik(Koromasarik)	587	Utu HC2	964	75	392	18.10.17	1	0				Road
		5.Sogeram Base Camp	269	Utu HC2										Included under Tebinsarik
	4	<b>WARD FOUR</b>	<b>2,608</b>		<b>2,582</b>	<b>445</b>	<b>1,263</b>		<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Baisarik	879	Utu HC2	811	144	381	18.10.17	1	0				Road
		2.Bemal	843	Utu HC2	909	155	430	17.10.17	1	0				Road
		3.Jobto	885	Utu HC2	862	146	452	17.10.17	1	0				Road
		4.Waguma	0	Utu HC2										Included under Baisarik



LLG	WARD	VILLAGE	Estimated 2017 Data Based On 2014 Data	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Digital	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
		5.Bemal Comm.Sch	0	Utu HC2										Included under Bemal
5	WARD FIVE		2,051		2,098	294	975		4	0	0	94		
		1.Bemari	387	Yagaum HC2									Radio Madang	Same name as Waguma(Same Village)
		2.Berim	476	Yagaum HC2	411	67	203	12.10.17	1	0	0	35	adio Madan	Road
		3.Sihan	464	Yagaum HC2	608	93	274	12.10.17	1	0	0	35	adio Madan	Road
		4.Waguma	725	Yagaum HC2	277	44	122	12.10.17	1	0	0	12	adio Madan	Road
		5. Wagum	NEW	Yagaum HC2	802	90	376	12.10.17	1	0	0	12	adio Madan	Book missing
6	WARD SIX		2,834		2,409	421	1,145		6	0	0	161		
		1.Garinam	566	Yagaum HC2	564	100	250	12.10.17	1	0	0	0	adio Madan	1 book missing
		2.Jal	439	Yagaum HC2	628	105	309	12.10.17	1	0	0	56	adio Madan	Road
		3.Sakwari(Segua)	311	Yagaum HC2	242	50	120	12.10.17	1	0	0	4	adio Madan	Road
		4.Usu	425	Yagaum HC2	169	36	84	12.10.17	1	0	0	23	adio Madan	Road
		5.Wehegelo(Ohegalau)	329	Yagaum HC2	208	43	103	12.10.17	1	0	0	27	adio Madan	Road
		6.Bamsos	765	Yagaum HC2	598	87	279	12.10.17	1	0	0	51	adio Madan	Road
		7.Kokun Comm.Sch	0	Yagaum HC2										Closed
7	WARD SEVEN		2,106		2,322	421	1,076		6	0	0	176		
		1.Atu	0	Yagaum HC2	162	32	73	11.10.17	1	0	0	32	FM	Road
		2.Barum	810	Yagaum HC2	601	112	277	11.10.17	1	0	0	51	FM	Road
		3.Gomuru	307	Yagaum HC2	390	77	180	11.10.17	1	0	0	17	FM	Road
		4.Mair	572	Yagaum HC2	592	89	275	11.10.17	1	0	0	54	FM	Road
		5.Ouba	417	Yagaum HC2	484	86	227	11.10.17	1	0	0	20	FM	Road
		6.Barum Prim.Sch	0	Yagaum HC2	93	25	44	11.10.17	1	0	0	2	FM	Road
8	WARD EIGHT		2,376		2,519	398	1,157		4	0	0	75		
		1.Buroa	426	Yagaum HC2	467	77	223	17.10.17	1	0	0	0	FM	Road
		2.Gonua	1,341	Yagaum HC2	1,303	215	593	12.10.17	1	0	0	67	FM	Road
		3.Kuyonbon	608	Yagaum HC2	679	94	311	12.10.17	1	0	0	3	FM	Road
		4.Lagogen Com.sch	0	Yagaum HC2	70	12	30	12.10.17	1	0	0	5	FM	Road
9	WARD NINE		2,068		1,688	268	770		3	0	0	69		
		1.Buru(Bur)	607	Yagaum HC2	510	80	244	16.10.17	1	0	0	9	adio Madan	Road
		2.Derin	1,027	Yagaum HC2	875	135	387	16.10.17	1	0	0	38	FM	Road
		3.Tadup	434	Yagaum HC2	303	53	139	16.10.17	1	0	0	22	adio Madan	Road
		4.Tadup Com.Sch	0	Yagaum HC2										School Closed-Triibal Fight
10	WARD TEN		1,192		1,304	218	593		1	0	0	0		
		1.Yagi	1,192	Utu HC2	1304	218	593	18.10.17	1	0	0			Road/3 Hr Trek
11	WARD ELEVEN		932		875	161	419		5	0	0	0		
		1.Wavir	0	Utu HC2	187	37	94	10.10.17	1	0	0			Road/2-3Hr Trek
		2.Ivap	497	Utu HC2	127	24	63	13.10.17	1	0	0			Road/2-3Hr Trek
		3.Kagi	169	Utu HC2	159	25	74	10.10.17	1	0	0			Road/2-3Hr Trek
		4.Oronga	266	Utu HC2	267	50	124	11.10.17	1	0	0			Road/2-3Hr Trek
		5.Samosa	0	Utu HC2										Included under Soli
		6.Soli	0	Utu HC2	135	25	64	10.10.17	1	0	0			Road/2-3Hr Trek
12	WARD TWELVE		878		799	131	376		1	0	0	0		
		1.Bai	334	Utu HC2	220	45	103	12.10.17	0	0	0			Road/1 Day Trek
		2.Murupi	0	Utu HC2	76	11	42	12.10.17	0	0	0			Road/1 Day Trek
		3.Misivanga	277	Utu HC2	150	20	67	12.10.17	0	0	0			Road/1 Day Trek
		4.Simuku	0	Utu HC2	88	12	36	12.10.17	0	0	0			Road/1 Day Trek
		5.Mugunuramba	267	Utu HC2	105	15	49	13.10.17	0	0	0			Road/1 Day Trek
		6.Sevoi	0	Utu HC2	74	15	38	12.10.17	0	0	0			Road/1 Day Trek
		7.Jab	0	Utu HC2	86	13	41	12.10.17	1	0	0			Road/1 Day Trek
13	WARD THIRTEEN		1,223		1,764	376	862		9	0	0	0		
		1.Dawa	289	Utu HC2	194	40	97	10.10.17	1	0	0			Road/1 Hr Trek
		2.Ebenan	0	Utu HC2	436	87	198	12.10.17	1	0	0			Road/1 Hr Trek
		3.Maritambu	252	Utu HC2	222	50	111	10.10.17	1	0	0			Road/1 Hr Trek
		4.Parawan	0	Utu HC2	129	25	63	10.10.17	1	0	0			Road/1 Hr Trek
		5.Ukuriguma	193	Utu HC2	161	36	77	10.10.17	1	0	0			Road/1 Hr Trek
		6.Wama	311	Utu HC2	221	48	109	10.10.17	1	0	0			Road/1 Hr Trek
		7.Yarawata	177	Utu HC2	121	26	63	10.10.17	1	0	0			Road/1 Hr Trek
		8.Kalangi	0	Utu HC2	145	35	81	10.10.17	1	0	0			Road/1 Hr Trek
		9.Bigawa Comm. Sch	0	Utu HC2	135	29	63	10.10.17	1	0	0			Road/1 Hr Trek
14	WARD 14		1,094		764	141	374		0	0	0	0		
		1.Boborana	0	Utu HC2	73	17	47	12.10.17	0	0	0			Road/1 Day Trek
		2.Ikarinagra (Imam)	481	Utu HC2	184	33	88	12.10.17	0	0	0			Road/1 Day Trek
		3.Ilima	0	Utu HC2	112	20	51	12.10.17	0	0	0			Road/1 Day Trek
		4.Magila	298	Utu HC2	278	45	132	12.10.17	0	0	0			Road/1 Day Trek
		5.Tarina	314	Utu HC2	117	26	56	12.10.17	0	0	0			Road/1 Day Trek
		6.Imam Comm. Sch	0	Utu HC2										Included under Tarina
15	WARD 15		519		421	101	214		0	0	0	0		
		1.Idimakuma (Ilebeguma)	325	Utu HC2										Included under Kosilanta
		2.Ilemamkutu (Yaben)	0	Utu HC2	134	35	72	12.10.17	0	0	0			Road/6 Hr Trek
		3.Komiarum	0	Utu HC2	163	37	78	12.10.17	0	0	0			Road/6 Hr Trek
		4.Kosilanta	194	Utu HC2	124	29	64	12.10.17	0	0	0			Road/6 Hr Trek
16	WARD 16		573		751	157	390		0	0	0	0		
		1.Abaiya	0	Utu HC2										Non Existant
		2.Barata	0	Utu HC2	164	33	79	12.10.17	0	0	0			Road/6 Hr Trek
		3.Gulkubran	284	Utu HC2	234	50	117	12.10.17	0	0	0			Road/6 Hr Trek
		4.Magilan	289	Utu HC2	191	38	97	12.10.17	0	0	0			Road/6 Hr Trek
		5.Yariatogo	0	Utu HC2	162	36	97	12.10.17	0	0	0			Road/6 Hr Trek

**MADANG PROVINCE**  
**RAI COAST DISTRICT POPULATION 2017**  
**LLIN DISTRIBUTION SUMMARY SHEET**  
**Growth Factor Used**

LLG	WARD	VILLAGE	Estimated 2017 Data Based On 2014 Data	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
<b>RAI COAST</b>			<b>99,505</b>		<b>107,849</b>	<b>18,320</b>	<b>51,467</b>		<b>270</b>	<b>13</b>	<b>0</b>	<b>1,786</b>	<b>176</b>	
<b>ASTROLABE BAY RURAL</b>			<b>26,810</b>		<b>29,373</b>	<b>4,739</b>	<b>13,984</b>		<b>55</b>	<b>0</b>	<b>0</b>	<b>1,073</b>	<b>56</b>	
	1	WARD 1	<b>2,567</b>		<b>2,990</b>	<b>481</b>	<b>1,430</b>		<b>8</b>	<b>0</b>	<b>0</b>	<b>93</b>		
		1.Bibi	442	Ganglau HC	377	77	183	01.10.17	1	0	0	15	BC MADAN	45 minutes drive across wet crossings.
		2.Kul	457	Ganglau HC	402	77	195	01.10.17	1	0	0	10	BC MADAN	50 minutes drive across wet crossings.
		3.Kumisanger	667	Ganglau HC	508	89	252	01.10.17	1	0	0	34	BC MADAN	1hour drive across wet crossings.
		4.Budamu	227	Ganglau HC	271	38	119	03.10.17	1	0	0	0	BC MADAN	6hours trek from Dimam
		5.Kabeneu (Raikos H/Ssettle	211	Ganglau HC	0	0	0	02.10.17	1	0	0	0	BC MADAN	Included under Raikos H/School
		6.Lila	282	Ganglau HC	268	49	130	01.10.17	1	0	0	15	BC MADAN	1hr 50 minutes drive across wet crossings
		7.Rai Coast High School	87	Ganglau HC	969	109	458	02.10.17	1	0	0	19	BC MADAN	30 minutes drive across wet crossings
		8.Diman	195	Ganglau HC	195	42	93	02.10.17	1	0	0	0	BC MADAN	1hour 30 minutes drive from Ganglau HC.
	2	WARD 2	<b>1,276</b>		<b>1,043</b>	<b>161</b>	<b>522</b>		<b>4</b>	<b>0</b>	<b>0</b>	<b>57</b>		
		1.Arawom	83	Ileg HC	139	19	68	04.10.17	1	0	0	4	BC MADAN	Boat/Trek
		2.Bangri	86	Ileg HC	59	14	30	04.10.17	1	0	0	2	BC MADAN	Boat/Trek
		3.Rimba	380	Ileg HC	383	62	192	04.10.17	1	0	0	29	BC MADAN	Boat/Trek
		4.Marakum	727	Ileg HC	462	66	232	04.10.17	1	0	0	22	BC MADAN	Boat/Trek
	3	WARD 3	<b>2,150</b>		<b>2,151</b>	<b>371</b>	<b>1,079</b>		<b>5</b>	<b>0</b>	<b>0</b>	<b>30</b>		
		1.Bang	753	Ileg HC	747	124	375	05.10.17	1	0	0	12	BC MADAN	Boat/Trek
		2.Gur	195	Ileg HC	225	35	113	03.10.17	1	0	0	5	BC MADAN	Boat/Trek
		3.Sekwanam	344	Ileg HC	359	69	180	03.10.17	1	0	0	4	BC MADAN	Boat/Trek
		4.Songum	489	Ileg HC	472	77	236	03.10.17	1	0	0	3	BC MADAN	Boat/Trek
		5.Yanglam	369	Ileg HC	348	66	175	03.10.17	1	0	0	6	BC MADAN	Boat/Trek
	4	WARD 4	<b>1,290</b>		<b>1,296</b>	<b>227</b>	<b>647</b>		<b>1</b>	<b>0</b>	<b>0</b>	<b>12</b>		
		1.Bongu	1,290	Ileg HC	1,296	227	647	02.10.17	1	0	0	12	BC MADAN	Road
	5	WARD 5	<b>1,230</b>		<b>1,175</b>	<b>187</b>	<b>589</b>		<b>3</b>	<b>0</b>	<b>0</b>	<b>7</b>		
		1.Boimbe	231	Ileg HC	174	25	87	05.10.17	1	0	0	7	BC MADAN	Road
		2.Buram	505	Ileg HC	578	99	290	02.10.17	1	0	0	0	BC MADAN	Road/Trek
		3.Kaliku	495	Ileg HC	423	63	212	02.10.17	1	0	0	0	BC MADAN	Road
	6	WARD 6	<b>2,610</b>		<b>2,560</b>	<b>430</b>	<b>1,284</b>		<b>5</b>	<b>0</b>	<b>0</b>	<b>108</b>		
		1.Jilim	642	Ileg HC	779	124	391	02.10.17	1	0	0	42	BC MADAN	Road
		2.Male	560	Ileg HC	444	75	223	02.10.17	1	0	0	31	BC MADAN	Road
		3.Reraru	570	Ileg HC	417	70	209	02.10.17	1	0	0	9	BC MADAN	Road
		4.Male 2	455	Ileg HC	369	62	185	02.10.17	1	0	0	10	BC MADAN	Trek
		5.Rereru 2 (Bai)	384	Ileg HC	551	99	276	02.10.17	1	0	0	16	BC MADAN	Road
	7	WARD 7	<b>1,170</b>		<b>1,258</b>	<b>231</b>	<b>631</b>		<b>1</b>	<b>0</b>	<b>0</b>	<b>61</b>		
		1.Lalok	1,170	Ileg HC	1,258	231	631	02.10.17	1	0	0	61	BC MADAN	Trek
	8	WARD 8	<b>2,444</b>		<b>2,648</b>	<b>330</b>	<b>1,252</b>		<b>8</b>	<b>0</b>	<b>0</b>	<b>149</b>		
		1.Asui	215	Bawak HC	229	31	108	06.10.17	1	0	0	12	BC MADAN	6-7 Hr Trek
		2.Kulel	312	Bawak HC	405	43	191	06.10.17	1	0	0	23	BC MADAN	6-7 Hr Trek
		3.Mabuluk	284	Bawak HC	293	39	141	06.10.17	1	0	0	15	BC MADAN	6-7 Hr Trek
		4.Tumbu	301	Bawak HC	367	48	173	06.10.17	1	0	0	15	BC MADAN	6-7 Hr Trek
		5.Wenge	480	Bawak HC	494	65	233	07.10.17	1	0	0	25	BC MADAN	6-7 Hr Trek
		6.Albu	566	Bawak HC	557	66	263	07.10.17	1	0	0	34	BC MADAN	6-7 Hr Trek
		7.Kulubu	252	Bawak HC	272	32	128	06.10.17	1	0	0	19	BC MADAN	6-7 Hr Trek
		8.Tumbu Community School	34	Bawak HC	31	6	15	06.10.17	1	0	0	6	BC MADAN	6-7 Hr Trek
	9	WARD 9	<b>891</b>		<b>872</b>	<b>150</b>	<b>414</b>		<b>4</b>	<b>0</b>	<b>0</b>	<b>30</b>		
		1.Baipa	86	Yagaum HC3	120	25	61	09.10.17	1	0	0	0	radio Madar	Two Day Trek From Assas Market
		2.Kwanje	139	Yagaum HC3	209	33	94	09.10.17	1	0	0	3	radio Madar	Two Day Trek From Assas Market
		3.Aurop	105	Yagaum HC3	192	25	87	09.10.17	1	0	0	4	radio Madar	Two Day Trek From Assas Market
		4.Sisari	0	Yagaum HC3										included under Kwanje.
		5.Saipa	534	Yagaum HC3	351	67	172	09.10.17	1	0	0	23	radio Madar	Two Day Trek From Assas Market
		6.Yokobi	26	Yagaum HC3										Included under Saipa
	10	WARD 10	<b>2,180</b>		<b>1,988</b>	<b>364</b>	<b>943</b>		<b>2</b>	<b>0</b>	<b>0</b>	<b>72</b>		
		1.Bom	1,318	Bawak HC	1,356	224	638	06.10.17	1	0	0	35	BC MADAN	Road
		2.Bom (Bugajim)	863	Bawak HC	632	140	305	06.10.17	1	0	0	37	BC MADAN	Road
	11	WARD 11	<b>3,034</b>		<b>3,430</b>	<b>569</b>	<b>1,604</b>		<b>6</b>	<b>0</b>	<b>0</b>	<b>171</b>		
		1.Bawak	693	Bawak HC	570	96	270	06.10.17	1	0	0	20	BC MADAN	Road
		2.Waliga	436	Bawak HC	405	69	192	06.10.17	1	0	0	11	BC MADAN	Road
		3.Jamjam	542	Bawak HC	627	100	295	06.10.17	1	0	0	51	BC MADAN	Road
		4.Tire	241	Bawak HC	606	96	271	06.10.17	1	0	0	21	BC MADAN	Road
		5.Buai	524	Bawak HC	454	86	214	06.10.17	1	0	0	11	BC MADAN	Road
		6.Usino Settlement	598	Bawak HC	768	122	362	06.10.17	1	0	0	57	BC MADAN	Road
	12	WARD 12	<b>1,216</b>		<b>1,184</b>	<b>193</b>	<b>557</b>		<b>3</b>	<b>0</b>	<b>0</b>	<b>8</b>		
		1.Ayau	562	Bawak HC	577	91	272	06.10.17	1	0	0	0	BC MADAN	4 Hr Trek
		2.Kwato	426	Bawak HC	361	62	169	06.10.17	1	0	0	0	BC MADAN	4 Hr Trek
		3.Ayula	228	Bawak HC	246	40	116	06.10.17	1	0	0	8	BC MADAN	4 Hr Trek
	13	WARD 13	<b>2,302</b>		<b>3,819</b>	<b>602</b>	<b>1,716</b>		<b>1</b>	<b>0</b>	<b>0</b>	<b>124</b>		
		1.Erima	1,433	Yagaum HC3	2,781	436	1,288	16.10.17	1	0	0	84	FM	Road
		2.Uya	868	Yagaum HC3	1,038	166	428	16.10.17	0	0	0	40	FM	Road
	14	WARD 14	<b>2,145</b>		<b>2,701</b>	<b>398</b>	<b>1,187</b>		<b>3</b>	<b>0</b>	<b>0</b>	<b>132</b>		
		1.Ato	1,553	Yagaum HC3	1,992	292	867	16.10.17	1	0	0	116	FM	Road
		2.Duduela	333	Yagaum HC3	376	49	175	16.10.17	1	0	0	10	FM	Road

LLG	WARD	VILLAGE	Estimated 2017 Data Based On 2014 Data	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
		3.Bauri	258	Yagaum HC3	333	57	145	16.10.17	1	0	0	6	FM	Road
15	WARD 15		305		258	45	129		1	0	0	19		
		1.Atrlabo Bay Lgc Station	305	lleg HC	258	45	129	03.10.17	1	0	0	19	BC MADAN	Road
			0											
<b>NAHO RAWA RURAL</b>			<b>17,086</b>		<b>22,009</b>	<b>3,593</b>	<b>10,497</b>		<b>35</b>	<b>13</b>	<b>0</b>	<b>174</b>	<b>21</b>	
1	WARD 1		511		593	99	290		0	0	0	0		
		1.Beringe	177	Tauta HC	285	49	139	07.10.17	0	0	0	0		Trek
		2.Gurumbo	334	Tauta HC	308	50	151	07.10.17	0	0	0	0		Trek
2	WARD 2		861		788	89	390		2	0	0	0		
		1.Mungou	557	Tauta HC	507	49	252	06.10.17	1	0	0	0		Trek
		2.Sagasaga	304	Tauta HC	281	40	138	06.10.17	1	0	0	0		Trek
3	WARD3		1,190		1,054	169	512		3	2	0	0		
		1.Guria	376	Tauta HC	317	50	152	06.10.17	1	0	0	0	adio Madar	Near Highway
		2.Agrimba	506	Tauta HC	434	59	209	04.10.17	1	1	0	0	adio Madar	Near Highway
		3.Ranara Mission	308	Tauta HC	303	60	151	04.10.17	1	1	0	0	adio Madar	Store Nets Here
4	WARD 4		755		684	104	358		2	0	0	0		
		1.Boro	172	Tauta HC	222	22	136	07.10.17	0	0	0	0		Trek
		2.Sisimba	299	Tauta HC	236	34	112	07.10.17	1	0	0	0	adio Madar	Trek
		3.Moguta	284	Tauta HC	226	48	110	07.10.17	1	0	0	0		Road
5	WARD 5		860		779	125	379		3	0	0	0		
		1.Simbo	317	Tauta HC	315	48	148	06.10.17	1	0	0	0	adio Madar	Road/Trek
		2.Tauta	479	Tauta HC	417	67	205	06.10.17	1	0	0	0	adio Madar	Road/Trek
		3.Tauta Station	64	Tauta HC	47	10	26	06.10.17	1	0	0	0	adio Madar	Road/Trek
6	WARD 6		1,051		1,144	110	544		1	0	0	0		
		1.Barim	1,051	Tauta HC	1,144	110	544	08.10.17	1	0	0	0	adio Madar	Trek
7	WARD 7		910		1,027	166	506		2	0	0	0		
		1.Goiro	910	Tauta HC	733	119	361	06.10.17	1	0	0	0		Trek
		2.Boroki	0	Tauta HC	294	47	145	04.10.17	1	0	0	0		Road
8	WARD 8		774		1,908	292	888		2	0	0	88		
		1.Niningo	556	Gusap HC	1,607	237	749	10.10.17	1	0	0	88	R. Madang	Trek
		2.Sapokare	218	Gusap HC	301	55	139	06.10.17	1	0	0	0		Trek
9	WARD9		580		1,203	124	549		1	0	0	0		
		1.Numbaiya	580	Gusap HC	1,203	124	549	10.10.17	1	0	0	0	adio Madar	Trek
10	WARD 10		1,392		1,520	308	717		1	0	0	0		
		2.Gomumu	1,392	Gusap HC	1,520	308	717	07.10.17	1	0	0	0		Trek
11	WARD 11		745		1,668	248	760		2	0	0	0		
		1.Saranga	745	Gusap HC	1,259	198	582	10.10.17	1	0	0	0		Trek
		2.Yonombe	0	Gusap HC	409	50	178	10.10.17	1	0	0	0		Trek
12	WARD 12		843		1,143	190	537		1	0	0	0		
		1.Serengo	843	Gusap HC	1,143	190	537	07.10.17	1	0	0	0	R. Madang	Trek
13	WARD 13		1,875		3,229	600	1,499		6	5	0	0		
		1.Damaiinde	251	Gusap HC	703	100	324	06.10.17	1	0	0	0		Trek
		2.Kikippei	426	Gusap HC	475	100	219	07.10.17	1	1	0	0		Trek
		3.Sunukai	412	Gusap HC	782	150	363	06.10.17	1	1	0	0		Trek
		4.Mundakum	312	Gusap HC	480	100	228	07.10.17	1	1	0	0		Trek
		5.Hahari	474	Gusap HC	525	100	244	05.10.17	1	1	0	0		Trek
		6.Hikiwa	0	Gusap HC	264	50	121	08.10.17	1	1	0	0		Trek
14	WARD 14		812		1,046	199	483		1	0	0	14		
		1.Wamunde	812	Gusap HC	1,046	199	483	06.10.17	1	0	0	14	R. Madang	Trek
15	WARD 15		547		394	69	181		1	0	0	0		
		1.Wari	547	Gusap HC	394	69	181	06.10.17	1	0	0	0		Trek
16	WARD 16		919		1,270	207	602		3	0	0	0		
		1.Butemu	544	Gusap HC	609	99	292	06.10.17	1	0	0	0	arai Nation	Trek
		2.Wanuru/Nasko	375	Gusap HC	370	61	170	08.10.17	1	0	0	0		Trek
		Naiko	NEW	Gusap HC	291	47	140	08.10.17	1	0	0	0		
17	WARD 17		689		936	164	443		2	0	0	0		
		1.Durukopo	422	Gusap HC	619	118	295	07.10.17	1	0	0	0	R. Madang	Trek
		2.Munambe	267	Gusap HC	317	46	148	08.10.17	1	0	0	0	R. Madang	Trek
18	WARD 18		267		338	73	178		2	3	0	47		
		1.Gongea	64	Gumbrani AP	67	16	36	22.10.17	1	1	0	16	NBC	Trek
		2.Mororo	163	Gumbrani AP	70	15	36	22.10.17	1	1	0	15	NBC	Trek
		3.Senei	40	Gumbrani AP	201	42	106	22.10.17	0	1	0	16	NBC	Trek
19	WARD 19		959		845	169	447		0	2	0	18		
		1.Moro	472	Gumbrani AP	434	86	226	24.10.17	0	1	0	4	NBC	Air/Trek
		2.Gumbrami	487	Gumbrani AP	411	83	221	22.10.17	0	1	0	14	NBC	Nuhu Airfield Here
20	WARD 20		545		440	88	234		0	1	0	7		
		1.Sewe	545	Gumbrani AP	440	88	234	23.10.17	0	1	0	7	NBC	Air/Trek
			0											
<b>RAI COAST RURAL</b>			<b>55,609</b>		<b>56,467</b>	<b>9,988</b>	<b>26,986</b>		<b>180</b>	<b>0</b>	<b>0</b>	<b>539</b>	<b>99</b>	
1	WARD 1		1,614		1,758	343	883		4	0	0	30		
		1.Bonga	379	Saidor HC	397	80	205	30.09.17	1	0	0	8	BC-Madan	Boat/Coastal
		2.Gali	479	Saidor HC	401	82	201	30.09.17	1	0	0	1	BC-Madan	Boat/Coastal
		3.Malalamai	421	Saidor HC	436	88	217	30.09.17	1	0	0	21	BC-Madan	Boat/Coastal
		4.Yagomi	335	Saidor HC	524	93	260	30.09.17	1	0	0	0	BC-Madan	Boat/Coastal
2	WARD 2		1,939		1,666	269	829		5	0	0	22		
		1.Bwana	603	Tapen HC	753	130	367	03.10.17	1	0	0	5	BC-Madan	Road/Trek from Malamai
		2.Tapen	313	Tapen HC	215	31	109	02.10.17	1	0	0	11	BC-Madan	Road/Trek from Malamai
		3.Aunon	382	Tapen HC	189	31	94	02.10.17	1	0	0	0	BC-Madan	Road/Trek from Malamai
		4.Bobongat	550	Tapen HC	474	72	242	02.10.17	1	0	0	2	BC-Madan	Road/Trek from Malamai
		5.Tapen Station	91	Tapen HC	35	5	17	02.10.17	1	0	0	4	BC-Madan	Road/Trek from Malamai

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3	WARD 3		1,073		1,269	220	609		3	0	0	9		
		1.Gabutamon	536	Saidor HC	438	68	214	01.10.17	1	0	0	0	IBC-Madan	Road/Trek from Malalamai (3 hrs)
		2.Maom	251	Saidor HC	489	83	233	01.10.17	1	0	0	9	IBC-Madan	Road/Trek from Malalamai (3 hrs)
		3.Yaut	286	Saidor HC	342	69	162	01.10.17	1	0	0	0	IBC-Madan	Road/Trek from Malalamai (3 hrs)
4	WARD 4		987		1,000	174	484		6	0	0	7		
		1.Kupungkapang	191	Saidor HC	152	27	77	27.09.17	1	0	0	0	IBC-Madan	Road/3 Hrs Trek from Talmiro
		2.Kepoiak	105	Saidor HC	89	15	42	27.09.17	1	0	0	0	IBC-Madan	Road/3 Hrs Trek from Talmiro
		3.Pisangana	291	Saidor HC	238	44	114	27.09.17	1	0	0	7	IBC-Madan	Road/3 Hrs Trek from Talmiro
		4.Talmiro	185	Saidor HC	181	33	86	27.09.17	1	0	0	0	IBC-Madan	Road
		5.Watang	183	Saidor HC	205	36	99	27.09.17	1	0	0	0	IBC-Madan	Road/3 Hrs Trek from Talmiro
		6.Gagnep	33	Saidor HC	135	19	66	27.09.17	1	0	0	0	IBC-Madan	Road/3 Hrs Trek from Talmiro
5	WARD 5		1,733		1,759	350	887		4	0	0	93		
		1.Baru	352	Saidor HC	366	95	190	28.09.17	1	0	0	62	IBC-Madan	Road
		2.Sel	811	Saidor HC	683	139	345	28.09.17	1	0	0	15	IBC-Madan	Road
		3.Seure	529	Saidor HC	626	100	307	28.09.17	1	0	0	6	IBC-Madan	Road
		4.Paruwi Community School	40	Saidor HC	84	16	45	28.09.17	1	0	0	10	IBC-Madan	Road
6	WARD 6		1,293		1,483	259	697		5	0	0	9		
		1.Bagen	354	Saidor HC	437	79	212	30.09.17	1	0	0	0	IBC-Madan	Road/2 Hr Trek
		2.Delbangat	158	Saidor HC	207	33	97	30.09.17	1	0	0	2	IBC-Madan	Road/2 Hr Trek
		3.Faigurup	227	Saidor HC	218	38	111	29.09.17	1	0	0	0	IBC-Madan	Road/2 Hr Trek
		4.Mamgak	320	Saidor HC	353	60	147	29.09.17	1	0	0	0	IBC-Madan	Road/2 Hr Trek
		5.Subura	234	Saidor HC	268	49	130	30.09.17	1	0	0	7	IBC-Madan	Road/2 Hr Trek
7	WARD 7		1,993		2,049	457	1,062		6	0	0	0		
		1.Kasu	302	Saidor HC	305	56	154	29.09.17	1	0	0	0	IBC-Madan	Road/2 Hr Trek
		2.Mur	868	Saidor HC	794	200	426	29.09.17	1	0	0	0	IBC-Madan	Road
		3.Somek	353	Saidor HC	407	86	212	03.10.17	1	0	0	0	IBC-Madan	Road/2 Hr Trek
		4.Gila	258	Saidor HC	271	50	142	29.09.17	1	0	0	0	IBC-Madan	Road/2 Hr Trek
		5.Yasel	135	Saidor HC	157	38	68	02.10.17	1	0	0	0	IBC-Madan	Road/2 Hr Trek
		6.Nom Plantation	77	Saidor HC	115	27	60	29.09.17	1	0	0	0	IBC-Madan	Road
8	WARD 8		1,219		1,396	276	688		9	0	0	0		
		1.Bandit	181	Saidor HC	204	38	102	29.09.17	1	0	0	0	IBC-Madan	Road/2 Hr Trek from Umboldi
		2.Bulgebi	46	Saidor HC	62	17	31	30.09.17	1	0	0	0	IBC-Madan	Road/2 Hr Trek from Umboldi
		3.Daban	167	Saidor HC	151	29	71	30.09.17	1	0	0	0	IBC-Madan	Road/2 Hr Trek from Umboldi
		4.Kupdui	71	Saidor HC	78	20	39	29.09.17	1	0	0	0	IBC-Madan	Road
		5.Monara	63	Saidor HC	157	31	75	30.09.17	1	0	0	0	IBC-Madan	Road/2 Hr Trek from Umboldi
		6.Mulumiang	501	Saidor HC	332	60	169	29.09.17	1	0	0	0	IBC-Madan	Road/2 Hr Trek from Umboldi
		7.Umboldi	125	Saidor HC	234	45	111	29.09.17	1	0	0	0	IBC-Madan	Road
		8.Aset	66	Saidor HC	59	12	32	30.09.17	1	0	0	0	IBC-Madan	Road/2 Hr Trek from Umboldi
		9. Guyarak	NEW	Saidor HC	119	24	58	30.09.17	1	0	0	0	IBC-Madan	Road/2 Hr Trek from Umboldi
9	WARD 9		1,085		1,352	262	650		6	0	0	8		
		1.Franger	196	Saidor HC	242	55	116	03.10.17	1	0	0	0	IBC-Madan	Road
		2.Kakimar	306	Saidor HC	442	73	203	03.10.17	1	0	0	0	IBC-Madan	Road
		3.Napma	53	Saidor HC	93	18	44	03.10.17	1	0	0	0	IBC-Madan	Road
		4.Wilwilan	230	Saidor HC	262	56	132	03.10.17	1	0	0	1	IBC-Madan	Road
		5.Suang	136	Saidor HC	116	29	57	03.10.17	1	0	0	0	IBC-Madan	Road
		6.Kalaleng	164	Saidor HC	197	31	98	03.10.17	1	0	0	7	IBC-Madan	Road
10	WARD 10		1,746		1,419	263	700		3	0	0	6		
		1.Sawoi	535	Saidor HC	403	83	198	01.10.17	1	0	0	0	IBC-Madan	Road
		2.Saidor Plntn	726	Saidor HC	713	126	354	01.10.17	1	0	0	3	IBC-Madan	Road
		3.Lagap Plntn	486	Saidor HC	303	54	148	01.10.17	1	0	0	3	IBC-Madan	Road
11	WARD 11		1,713		1,612	329	808		7	0	0	12		
		1.Wab	236	Saidor HC	241	45	118	02.10.17	1	0	0	2	IBC-Madan	Road
		2.Yaimas	424	Saidor HC	356	77	187	02.10.17	1	0	0	0	IBC-Madan	Road
		3.Gik (Lafun)	316	Saidor HC	137	26	70	02.10.17	1	0	0	0	IBC-Madan	Road
		4.Yawap 1	167	Saidor HC	146	31	72	02.10.17	1	0	0	3	IBC-Madan	Road/2hrs Trek
		5.Yaunyai	216	Saidor HC	226	50	109	02.10.17	1	0	0	1	IBC-Madan	Road/2hrs Trek
		6.Tawap 2	148	Saidor HC	254	50	129	02.10.17	1	0	0	4	IBC-Madan	Road
		7.Bumbi Plntn	205	Saidor HC	252	50	123	02.10.17	1	0	0	2	IBC-Madan	Road
12	WARD 12		1,144		997	192	484		7	0	0	0		
		1.Amun	231	Biliau HC	233	45	112	11.10.17	1	0	0	0		2 Hr Trek From Wab
		2.Busarka	125	Saidor HC	93	25	50	03.10.17	1	0	0	0	IBC-Madan	2 Hr Trek From Gik/Lafun
		3.Sisagel	170	Saidor HC	144	24	69	03.10.17	1	0	0	0	IBC-Madan	2 Hr Trek From Gik/Lafun
		4.Sor	142	Biliau HC	121	22	58	09.10.17	1	0	0	0		2 Hr Trek From Wab
		5.Waibol	239	Biliau HC	198	42	95	11.10.17	1	0	0	0		2 Hr Trek From Wab
		6.Bada	120	Biliau HC	97	16	47	11.10.17	1	0	0	0		2 Hr Trek From Wab
		7.Paramusing	117	Biliau HC	111	18	53	09.10.17	1	0	0	0		2 Hr Trek From Wab
13	WARD 13		2,671		2,862	538	1,347		9	0	0	0		
		1.Biliau	294	Biliau HC	436	95	210	09.10.17	1	0	0	0		Boat
		2.Galek	553	Biliau HC	576	89	276	06.10.17	1	0	0	0		Boat
		3.suit	486	Biliau HC	536	97	258	06.10.17	1	0	0	0		Boat
		4.Yamai	349	Biliau HC	307	74	146	06.10.17	1	0	0	0		Boat
		5.Tetarai	296	Biliau HC	342	73	154	06.10.17	1	0	0	0		Boat
		6.Malangai	389	Biliau HC	400	64	190	04.10.17	1	0	0	0		Boat
		7.Biliau Prim.Sch	304	Biliau HC	75	13	31	11.10.17	1	0	0	0		Boat
		8. Goriong	NEW	Biliau HC	61	12	27	10.10.17	1	0	0	0		Boat
		9. New camp	NEW	Biliau HC	129	21	55	06.10.17	1	0	0	0		Boat
14	WARD 14		1,143		1,016	197	497		7	0	0	0		
		1.Sibog	191	Biliau HC	288	43	138	12.10.17	1	0	0	0		Boat/2 Hr Trek
		2.Silaling	83	Biliau HC	159	30	76	14.10.17	1	0	0	0		Boat/2 Hr Trek
		3.Sindama	194	Biliau HC	112	29	55	09.10.17	1	0	0	0		Boat/2 Hr Trek

LLG	WARD	VILLAGE	Estimated 2017 Data Based On 2014 Data	Health Centre	Population Surveyed	House Holds Surveyed	Nets Issued	Date Of Distribution	Digicel	Bmobile	Citifon	Houses With Radios	Radio Networks	Comment
		4.Langani	177	Biliau HC	135	31	65	14.10.17	1	0	0	0		Boat/2 Hr Trek
		5.Sabilonge	126	Biliau HC	75	14	36	14.10.17	1	0	0	0		Boat/2 Hr Trek
		6.Yugayuga	125	Biliau HC	112	25	50	13.10.17	1	0	0	0		Boat/2 Hr Trek
		7.Dimeng	248	Biliau HC	135	25	77	06.10.17	1	0	0	0		Boat/2 Hr Trek
15	WARD 15		1,412		1,292	206	620		6	0	0	0		
		1.Aiyawang	480	Biliau HC	458	74	220	05.10.17	1	0	0	0		Boat/2 Hr Trek
		2.Gabumi	243	Biliau HC	237	41	114	04.10.17	1	0	0	0		Boat/2 Hr Trek
		3.Suri	129	Biliau HC	113	19	54	05.10.17	1	0	0	0		Boat/2 Hr Trek
		4.Yori	156	Biliau HC	286	44	137	04.10.17	1	0	0	0		Boat/2 Hr Trek
		5.Titirapok	247	Biliau HC	137	17	66	04.10.17	1	0	0	0		Boat/2 Hr Trek
		6.Sereng	157	Biliau HC	61	11	29	04.10.17	1	0	0	0		Boat/2 Hr Trek
16	WARD 16		748		729	124	350		3	0	0	0		
		1.Bagalawa	297	Biliau HC	306	50	147	10.10.17	1	0	0	0		4 Hr Trek
		2.Birong	338	Biliau HC	331	55	159	10.10.17	1	0	0	0		4 Hr Trek
		3.Rongup	113	Biliau HC	92	19	44	11.10.17	1	0	0	0		4 Hr Trek
17	WARD 17		1,524		1,568	331	714		4	0	0	0		
		1.Lamtub	385	Biliau HC	394	80	186	07.10.17	1	0	0	0		Boat
		2.Singor	341	Biliau HC	371	84	169	07.10.17	1	0	0	0		Boat
		3.Warai	531	Biliau HC	533	117	237	06.10.17	1	0	0	0		Boat
		4.Lamtub Com. Sch	268	Biliau HC	270	50	122	08.10.17	1	0	0	0		Boat
18	WARD 18		1,407		1,531	254	660		5	0	0	0		
		1.Asang	237	Biliau HC	235	41	103	06.10.17	1	0	0	0		Boat/4 Hr Trek
		2.Damoiing	284	Biliau HC	193	36	87	06.10.17	1	0	0	0		Boat/4 Hr Trek
		3.Maibang	407	Biliau HC	409	66	171	05.10.17	1	0	0	0		Boat/4 Hr Trek
		4.Reite	380	Biliau HC	515	81	225	06.10.17	1	0	0	0		Boat/4 Hr Trek
		5.Seriang	99	Biliau HC	179	30	74	06.10.17	1	0	0	0		Boat/4 Hr Trek
19	WARD 19		1,085		1,107	212	532		4	0	0	0		
		1.Mauwerere	514	Biliau HC	411	79	198	11.10.17	1	0	0	0		4 Hr Trek
		2.Muniano	288	Biliau HC	340	64	163	06.10.17	1	0	0	0		4 Hr Trek
		3.Yokea 1	126	Biliau HC	110	24	53	11.10.17	1	0	0	0		4 Hr Trek
		4.Yokea 2	157	Biliau HC	246	45	118	09.10.17	1	0	0	0		4 Hr Trek
20	WARD 20		1,375		990	161	477		3	0	0	0		
		1.Kumburungu	616	Biliau HC	458	68	220	08.10.17	1	0	0	0		4 Hr Trek
		2.Sari	204	Biliau HC	111	20	53	09.10.17	1	0	0	0		4 Hr Trek
		3.Yorki	555	Biliau HC	421	73	204	09.10.17	1	0	0	0		4 Hr Trek
21	WARD 21		845		810	147	351		4	0	0	0		
		1.Koiako	267	Biliau HC	154	26	65	07.10.17	1	0	0	0		4 Hr Trek
		2.Koking	147	Biliau HC	207	39	95	07.10.17	1	0	0	0		4 Hr Trek
		3.Masi	199	Biliau HC	199	37	85	07.10.17	1	0	0	0		4 Hr Trek
		4.Sorang	232	Biliau HC	250	45	106	07.10.17	1	0	0	0		4 Hr Trek
22	WARD 22		797		749	129	359		4	0	0	0		
		1.Kiambowe	183	Biliau HC	138	17	66	10.10.17	1	0	0	0		4 Hr Trek
		2.Ramba	147	Biliau HC	165	28	79	09.10.17	1	0	0	0		4 Hr Trek
		3.Rusuang	329	Biliau HC	325	67	156	06.10.17	1	0	0	0		4 Hr Trek
		4.Seremore	139	Biliau HC	121	17	58	09.10.17	1	0	0	0		4 Hr Trek
23	WARD 23		695		862	145	413		2	0	0	0		
		1.Guhungo	298	Biliau HC	302	50	145	08.10.17	1	0	0	0		4 Hr Trek
		2.Matoko	397	Biliau HC	560	95	268	08.10.17	1	0	0	0		4 Hr Trek
24	WARD 24		1,261		1,243	203	553		4	0	0	0		
		1.Basor	652	Biliau HC	624	96	280	05.10.17	1	0	0	0		Boat/4 Hr Trek
		2.Baubo	149	Biliau HC	128	17	54	14.10.17	1	0	0	0		Boat/4 Hr Trek
		3.Bidua	122	Biliau HC	104	25	50	11.10.17	1	0	0	0		Boat/4 Hr Trek
		4.Gogu	338	Biliau HC	387	65	169	11.10.17	1	0	0	0		Boat/4 Hr Trek
25	WARD 25		649		950	144	392		4	0	0	0		
		1.Guti	83	Biliau HC	165	25	68	14.10.17	1	0	0	0		4 Hr Trek
		2.Kurei	127	Biliau HC	230	34	100	10.10.17	1	0	0	0		4 Hr Trek
		3.Kurubau	179	Biliau HC	193	35	78	09.10.17	1	0	0	0		4 Hr Trek
		4.Sorakiri	260	Biliau HC	362	50	146	14.10.17	1	0	0	0		4 Hr Trek
26	WARD 26		1,104		984	165	472		2	0	0	0		
		1.Funiyende	552	Biliau HC	538	100	258	09.10.17	1	0	0	0		4 Hr Trek
		2.kongo	552	Biliau HC	446	65	214	10.10.17	1	0	0	0		4 Hr Trek
27	WARD 27		2,472		2,477	419	1,070		5	0	0	0		
		1.Dein	238	Biliau HC	353	61	162	05.10.17	1	0	0	0		Boat
		2.Sinange	379	Biliau HC	425	59	177	05.10.17	1	0	0	0		3 Hr Trek
		3.Wado	356	Biliau HC	362	67	155	08.10.17	1	0	0	0		3 Hr Trek
		4.Baded	1,068	Biliau HC	944	158	405	08.10.17	1	0	0	0		Boat
		5.Deging	432	Biliau HC	393	74	171	05.10.17	1	0	0	0		Boat
28	WARD 28		181		333	37	147		2	0	0	0		
		1.Simindidi	160	Ganglaur HC2	333	37	147	03.10.17	1	0	0	0		2days trek from Basamuk
		2.Yongedam	20	Ganglaur HC2	0	0	0	03.10.17	1	0	0	0		2days trek from Basamuk
29	WARD 29		762		797	95	321		2	0	0	0		
		1.Bagonda	151	Ganglaur HC2	141	18	52	03.10.17	0	0	0	0		2days trek from Basamuk
		2.Kubigam	232	Ganglaur HC2	227	27	92	03.10.17	0	0	0	0		2days trek from Basamuk
		3.Sakorora	99	Ganglaur HC2	172	19	70	03.10.17	0	0	0	0		2days trek from Basamuk
		4.Wangeto	208	Ganglaur HC2	173	23	70	03.10.17	0	0	0	0		2days trek from Dein.
		5.Murondogo	25	Ganglaur HC2	20	2	9	03.10.17	1	0	0	0		2days Trek from Basamuk: Covered under Gusa
		6.Gusa	47	Ganglaur HC2	64	6	28	03.10.17	1	0	0	0		Trek from Basamuk
30	WARD 30		2,017		2,281	360	1,049		8	0	0	24		
		1.Ganglaur	698	Ganglaur HC2	874	124	388	03.10.17	1	0	0	4	BC MADAN	RAM Base set here. Formerly a Sub-Health Center

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		2.Kubup	136	Ganglau HC2	182	29	87	02.10.17	1	0	0	10	BC MADAN	15minutes drive from Ganglau HC
		3.Kulilau	196	Ganglau HC2	175	31	85	02.10.17	1	0	0	0	BC MADAN	20minutes drive from Ganglau HC
		4.Mindere	490	Ganglau HC2	500	92	238	02.10.17	1	0	0	0	BC MADAN	10minutes drive from Ganglau HC
		5.Segi	178	Ganglau HC2	151	25	72	02.10.17	1	0	0	10	BC MADAN	10minutes drive from Ganglau HC
		6.Dumon	27	Ganglau HC2	88	13	42	02.10.17	1	0	0	0	BC MADAN	20minutes drive from Ganglau HC
		7.Gawar Prim.Sch.	142	Ganglau HC2	57	11	28	02.10.17	1	0	0	0	BC MADAN	25minutes drive from Ganglau HC
		8.Basamak Hplaza Camp	149	Ganglau HC2	254	35	109	04.10.17	1	0	0	0	BC MADAN	10minutes drive from Ganglau HC
31	WARD 31		<b>1,225</b>		<b>1,455</b>	<b>234</b>	<b>652</b>		<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Orinma	468	Ganglau HC2	439	79	207	28.09.17	1	0	0	0	BC MADAN	2days trek from Orbics Const
		2.lbe	352	Ganglau HC2	278	55	124	28.09.17	1	0	0	0	BC MADAN	2days trek from Orbics Const
		3.Obics Cost Stnt	405	Ganglau HC2	738	100	321	03.10.17	1	0	0	0	BC MADAN	15minutes drive from Ganglau HC
32	WARD 32		<b>1,160</b>		<b>1,718</b>	<b>263</b>	<b>794</b>		<b>3</b>	<b>0</b>	<b>0</b>	<b>89</b>		
		1.Mebu	303	Ganglau HC2	306	50	154	27.09.17	1	0	0	19	BC MADAN	2days trek from Buff
		2.Sitaba	350	Ganglau HC2	393	59	178	27.09.17	1	0	0	22	BC MADAN	2days trek from Buff
		3.Tugiyag	507	Ganglau HC2	1,019	154	462	03.10.17	1	0	0	48	BC MADAN	7minutes drive from Ganglau HC
33	WARD 33		<b>1,643</b>		<b>869</b>	<b>99</b>	<b>394</b>		<b>5</b>	<b>0</b>	<b>0</b>	<b>19</b>		
		1.Batoto	196	Ganglau HC2	0	0	0	03.10.17	1	0	0	0		2 days trek from Raikos High School
		2.Guhu	315	Ganglau HC2	210	30	89	05.10.17	1	0	0	13	BC MADAN	2 days trek from Raikos High School
		3.Karakara	307	Ganglau HC2	0	0	0	05.10.17	1	0	0	0	BC MADAN	2 days trek from Raikos High School
		4.Ongo	190	Ganglau HC2	157	20	62	03.10.17	1	0	0	6	BC MADAN	2 days trek from Raikos High School
		5.Mingming	635	Ganglau HC2	502	49	243	02.10.17	1	0	0	0	BC MADAN	45 minutes drive from Ganglau HC
34	WARD 34		<b>1,303</b>		<b>1,354</b>	<b>248</b>	<b>670</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Bara	680	Long Island HC	659	118	325	23.09.17	0	0	0	0		Boat
		2.Matafuna	624	Long Island HC	695	130	345	24.09.17	0	0	0	0		Boat
35	WARD 35		<b>1,052</b>		<b>1,252</b>	<b>249</b>	<b>604</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Bok	316	Long Island HC	472	100	232	22.09.17	0	0	0	0		Boat
		2.Kaut	736	Long Island HC	780	149	372	21.09.17	0	0	0	0		Boat
36	WARD 36		<b>1,150</b>		<b>1,112</b>	<b>219</b>	<b>534</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Malala	515	Long Island HC	502	89	240	21.09.17	0	0	0	0		Boat
		2.Point Kiau	635	Long Island HC	610	130	294	22.09.17	0	0	0	0		Boat
37	WARD 37		<b>900</b>		<b>857</b>	<b>156</b>	<b>409</b>		<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Kwembun	483	Teptep HC	342	52	163	27.10.17	1	0	0	0		Trek
		2.Wandabong	304	Teptep HC	135	33	65	27.10.17	0	0	0	0		Trek
		3.Windiluk	112	Teptep HC	210	43	101	27.10.17	0	0	0	0		Trek
		4.Dakanon	NEW	Teptep HC	170	28	80	27.10.17	0	0	0	0		Trek
38	WARD 38		<b>1,031</b>		<b>1,357</b>	<b>244</b>	<b>653</b>		<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>		
		1.Wasikokop	455	Teptep HC	380	65	182	28.10.17	1	0	0	0		Trek
		2.Taing	575	Teptep HC	515	114	249	28.10.17	1	0	0	0		Trek
		3.Nian	NEW	Teptep HC	374	50	180	28.10.17	1	0	0	0		Trek
		4.Duwi	NEW	Teptep HC	88	15	42	28.10.17	1	0	0	0		Trek
39	WARD 39		<b>1,580</b>		<b>1,468</b>	<b>239</b>	<b>761</b>		<b>5</b>	<b>0</b>	<b>0</b>	<b>86</b>		
		1.Bambu	633	Gwarawon AP	545	89	282	25-28.10.17	1	0	0	58	FM, AM	2 days trekking
		2.Yuangoba	391	Gwarawon AP	344	59	172	22-24.10.17	1	0	0	5	FM, AM	2 days trekking
		3.Taip	242	Gwarawon AP	301	45	166	25-28.10.17	1	0	0	0	FM, AM	2 days trekking
		4.Iyengowo	110	Gwarawon AP	110	14	55	25-28.10.17	1	0	0	8	FM, AM	2 days trekking
		5.Meweng	204	Gwarawon AP	168	32	86	25-28.10.17	1	0	0	15	FM, AM	2 days trekking
40	WARD 40		<b>1,159</b>		<b>1,145</b>	<b>184</b>	<b>567</b>		<b>4</b>	<b>0</b>	<b>0</b>	<b>53</b>		
		1.Gumbaiong	500	Gwarawon AP	571	88	279	25-28.10.17	1	0	0	23	FM, AM	1 Day Trek
		2.Tepmawon	222	Gwarawon AP	265	41	130	25-26.10.17	1	0	0	0	FM, AM	1hour 30 mins trek
		3.Mambak	186	Gwarawon AP	136	22	67	24-25.10.17	1	0	0	8	FM, AM	1day 6hours trek
		4.Sawan	250	Gwarawon AP	173	33	91	23-26.10.17	1	0	0	22	FM, AM	1 hour trek
41	WARD 41		<b>2,447</b>		<b>2,266</b>	<b>404</b>	<b>1,219</b>		<b>8</b>	<b>0</b>	<b>0</b>	<b>51</b>		
		1.Gwarawon	1,145	Gwarawon AP	1,096	183	609	20-25.10.17	1	0	0	18	FM, AM	30 mins trek
		2.Kandambo	191	Gwarawon AP	83	17	43	23-24.10.17	1	0	0	0	FM, AM	30 mins trek
		3.Kasam	157	Gwarawon AP	136	31	69	28-29.10.17	1	0	0	1	FM, AM	40 mins trek
		4.Qombubu	248	Gwarawon AP	111	18	57	23-25.10.17	1	0	0	1	FM, AM	1 day 6 hours trek
		5.Miok	197	Gwarawon AP	132	26	79	23-25.10.17	1	0	0	0	FM, AM	30 mins trek
		6.Pivin	259	Gwarawon AP	300	50	152	23-24.10.17	1	0	0	4	FM, AM	1 day 6 hours trek
		7.Yopbo	250	Gwarawon AP	263	50	132	24-27.10.17	1	0	0	27	FM, AM	6 hours trek
		8. Daik		Gwarawon AP	145	29	78	24-25.10.17	1	0	0	0	FM, AM	1 day trek
42	WARD 42		<b>1,273</b>		<b>1,273</b>	<b>188</b>	<b>624</b>		<b>4</b>	<b>0</b>	<b>0</b>	<b>21</b>		
		1.Mambit	303	Gwarawon AP	290	42	138	24-27.10.17	1	0	0	5	FM, AM	2 days trekking
		2.Mibu	485	Gwarawon AP	515	72	244	26-28.10.17	1	0	0	2	FM, AM	2 days trekking
		3.Tariknan	196	Gwarawon AP	277	45	143	23-24.10.17	1	0	0	14	FM, AM	1 hour 30 mins trek
		4.Mitraling	289	Gwarawon AP	191	29	99	26-28.10.17	1	0	0	0	FM, AM	2 days trekking