



**Ntcheu District, Malawi**

**Post-Distribution Check-Up (PDCU)  
at 12-months**

**January 2017**

**REPORT**

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## **1. Executive Summary**

This report represents the results of the 12 months PDCU conducted in December 2016 and January 2017. Data was gathered in all of the district's 39 Health Centre Catchment Areas (HCCAs). 8,209 households (HH) were randomly selected and visited unannounced. This check-up was carried out at 12 months after the distribution.

At 12 months post-distribution, sleeping space coverage with a viable net was 78%.

Net hang-up, condition and 'net present but not hung' information for each of the 39 HCCAs will be passed to Ntcheu Malaria Coordinator (MC), the District Environmental Health Officer (DEHO) and District Health Officer (DHO) to assist in designing further potential targeted malaria intervention activities.

## **2. Background**

Ntcheu District is one of Malawi's 28 districts and has a population of 724,511 people and 162,934 households. A universal coverage distribution of 431,914 nets was carried out from November 2015 to March 2016.

A Post-Distribution Check-Up survey (PDCU) is carried out at 6 months intervals after the distribution as an impact-monitoring tool of net usage and net condition hence this is a third after the distributions.

## **3. Results**

- 8,209 HHs visited (5% of the HHs that received nets in the original distribution)
- 19,146 nets checked
- 72% of the nets were found to be hung and in use. This is a good hang-up level.
- 60% of the nets were found to be in 'very good condition' (fewer than 2 holes of up to 2cm in size), 26% 'Good' (fewer than 10 small holes on them) and 4% in 'viable' condition, (although with more than 10 holes or 1 hole larger than 10 cm), while 11% were worn out. The viable sleeping space coverage was therefore 78% and 80% people sleeping under a net.
- The survey found 17% of those using the nets were children under 5 years, while 38% were children, 1% were pregnant women and 44% being adults.
- Condition of the nets compared to expectation: Acceptable.

See Appendix 2 for detailed results and findings.

### **Comment**

This suggests for other distribution areas showing a similar decline in coverage over time other actions are necessary if the target is to maintain a minimum 80%\* sleeping space coverage throughout the typical three year period between mass universal coverage distributions.

We are considering with partners various interventions.

One possible development is an ‘injection strategy’ that brings in a quantity of nets at 24 months, to increase net coverage to a level that ensures any decline over the subsequent year leaves sleeping space coverage at or above 80%.

This would involve a mechanism by which sleeping spaces in need of a net, across all households, were accurately tallied at the 24 month, point. This could involve a district wide ‘pre-distribution registration survey’, similar to that carried out prior to a mass distribution or could perhaps be achieved through engagement of local communities.

The practicality of different approaches, associated costs and the coverage likely to be achieved is being assessed.

What is clear is that sleeping space coverage is below 80% for a material part of the three year period between mass distributions and better malaria control is likely to be achieved through maintaining an 80% or above coverage level throughout the three year cycle.

Note: 80% is considered by many in the malaria community to be the desired level of sustained coverage. As far as we are aware (at least at this time) there is no specific scientific evidence that suggests 80% rather than 75% or 85% or a different level. We believe it is considered a practical and suitable high level given 100% coverage is unlikely and it falls at the midpoint of this and 60%, the level at which the so-called ‘mass effect’ begins, where those not under cover (the 40%) benefit from the 60% coverage and a significant proportion of the population being protected and a material number of the malaria-carrying mosquitoes in a community being killed on contact with the insecticide-treated nets in place.

#### **4. How the work was carried out and key decisions**

##### **Schedule**

The PDCU planning began two months in advance of the PDCU taking place to ensure plans and resources were in place.

##### **Planning**

The PDCU team leader led the planning. See the PDCU-12 Planning document for details.

##### **Budgeting**

A budget was prepared using cost drivers for each cost item. This allowed strong estimating of costs and will allow a clear comparison between budget and actual costs. See PDCU-12 Budget vs Actual document.

##### **Resource selection**

There are 39 Health Centres (HCs) in Ntcheu District. Each has approximately 20 staff attached to each one, the majority being salaried Health Surveillance Assistants (HSAs).

From lessons learned from earlier PDCUs, it was decided to continue with the focused team of 20 data collectors rather than have a specific number of data collectors from each HCCA. This was based on the following reasons.

First, this would reduce the number of data collectors that would need to be monitored and trained. Second, we would be able to select reliable individuals whom we could trust to do a diligent and accurate job of collecting the data. Third, it would leave the majority of HSAs to carry on with the normal health tasks and duties. Fourth, by having the same people covering the whole exercise they will get acquainted to the task and reduce errors on data collection.

This meant the data collectors would spend less days collecting data with a day on each health facility rather than the one or several days if not many more data collectors were to be used. This was judged the preferable way of organizing and managing the data collection phase.

### **Orientation and training**

Given the limited number of people involved in collecting data and supervising, this was a relatively simple and focused task. An orientation and training session took place on 15<sup>th</sup> December 2016, conducted by CU and MOH Staff (Malaria Coordinator (MC) and Assistant District Environmental Health Officer (ADEHO)).

Supervisors: There were 2 supervisors. The briefing familiarized the supervisors with the overall project, objectives, timing and specific responsibilities.

Data collectors: There were 20 data collectors involved in collecting data, selected from within the district. The orientation included detailed explanation of the survey objectives and the logic behind the survey form (net condition, type of nets, what sleeping spaces are, what is meant by hung nets and noting hung nets against AMF nets received) as well as having the data collectors pre-test exercise in order to fill in sample forms and ask questions to ensure their understanding of what information should be collected and how.

### **Village selection and household selection**

Ntcheu district has 39 health facilities. It was decided to collect data from 5% of households in all HCCA where we carried out the distributions; this meant a different number of households in each HCCA as per individual health facility populations.

Between 25 and 720 households were randomly selected from each of the selected 2 to 20 villages, depending on the HCCA, with the villages also selected at random.

Villages were randomly selected using the village lists generated from the pre-distribution and distribution work for the November 2015-March 2016 AMF-funded universal coverage LLIN distribution. A random number table was used to select the villages.

Households were randomly selected using the household lists produced during the same campaign. A random number table was used to select the households. Ten more households were put on reserve in case no one was at home in the selected households.

### **Data collection**

20 data collectors and 2 supervisors from the District Health Office were involved in the PDCU. The supervisors were responsible for checking the data collection exercise at the same time monitoring how the data was being collected as per requirement.

All the data collectors involved gathered at a days' designated health facility before each being deployed to selected villages. Once the data collection was complete, the data collectors submitted completed forms to their assigned supervisor who was responsible for checking the forms for obvious errors or omissions, including a lack of householder signature, before delivering the forms to the data entry team.

From the selected households, both men and women households heads were interviewed upon giving consent and signing on the form to indicate acceptance. Each data collector was assigned a village under the health centre on which data collection was planned for that particular day, guided by their assigned supervisor. On average each data collector visited 31 households per day.

### **Data collection checking**

Supervisors were required to visit 5% of the households in their area to check the accuracy of the data collectors' work and had to check all the completed forms submitted to them before submitting them to the Project Manager. The sampled visited households were also chosen at random so the work of all data collectors was checked.

### **Data entry**

There were two data entry clerks with knowledge in basic computing. The data entry clerks were also exposed to a questionnaire orientation where they were briefed on the forms and introduced to the online web links and how to enter the data on the electronic form, make editions and post the data. The data entry clerks were assigned specific health facilities in order to facilitate their performance monitoring.

Data was entered into a database via a web interface created by AMF. An internet connection was required for this work.

### **Data entry checking**

It was important to monitor and check the work of each data clerk at an early stage to correct any lack of understanding and monitor errors.

Improvements in the data entry interface since the last PDCU carried out in the district (Ntcheu PDCU-6) by AMF meant the data entry proceeded with almost no errors. This reduced the error-checking phase to almost nothing.

## **5. Finances**

The budget was US\$ 15,645.

## **6. Lessons learned**

The operational elements that went well were:

- All the selected villages were visited.
- There was a positive response from the LLIN beneficiaries at community level.

- The survey form was short with only one page comprising 6 questions, which was ideal for the data collectors and the respondents.
- Local community leaders and household heads allowed the data collectors to enter their households to see the hung nets and check the condition they were in.
- Management support and commitment towards the activity by Concern Universal and District Health staff was very encouraging, hence the timely execution of the exercise.
- The data collectors, supervisors and drivers were committed to collecting the data.

The lessons learned from this PDCU that will be applied to subsequent PDCUs were:

- In order to maintain and follow the timeline and meet the deadlines permanent vehicles should be allocated to the activity.
- The same data collectors should be hired to collect the data for the whole exercise in the upcoming subsequent PDCU surveys.
- Likewise the same data entry clerks should be involved in the next subsequent upcoming PDCUs since they are already familiar with the system.

## **7. Acknowledgements**

Special acknowledgement should be made to the Ntcheu District Health Management Team and the Malaria Coordinator (MC) Mr. Nicholas Mwamlima and the Environmental Health Officer (EHO) Mr. Rudolph Banda in particular, for tirelessly making this initiative a success. Despite their busy day-to-day schedule they allocated their time and efforts to the successful execution of the survey. This team worked even beyond normal working hours just to accomplish the mission and meet the timelines.

## Appendix 1 - Health Areas and households visited (2 Pages )

### LIST OF HOUSEHOLDS PER HEALTH FACILITY

DATA COLLECTION PLAN																					
VILLAGES																					
DAY	HEALTH CENTRE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	BILILA	CHAULUKA	MATSIMBE	MAJIGA 2	KAIMAIMA	HOLLA	HAWA	KALUMBA	CHIBALALA 1	KUKHOLA	CHIPALAPATA	KHOMERA	KHOMERA 2	ZAMASIYA	MENYANI	MALIGWA					
2	BIRIWIRI	HAISA	CHIPUSIRE	MAONGA	KATSALAMBAMBE	MANGUANA	MTAMBALIKA														
3	BWANJE	NKHWANI 1	CHIKADYA CENTR	PENDANYAMA	MAWIRA	CHIKADYA 3	CHAWANJA 2	CHIKADYA 1	CHIKONDI	KANYOZA 2	MKWANGWANYA	SANJANI 1	YOSEFE 1	MWADZAANGATI							
4	CHAMPITI	MSAMANYADA	MALINDA	HIWA	ZIYAYA																
5	CHIGODI	THONDOYA	ZUZE	KANCHOLO	CHALERA	MIDIMA															
6	CHIKANDE	CHAPENDEKA	KAJAWO	MLAMBADZA 2	KAMETE	KAMBUKU 2	UZENI	MAGOMBO													
7	CHIKOWA	ZIDANA	CHILIGO																		
8	CHIOLE	MKOLIMBO	ZIOYA	KAMWENDO 1																	
9	DOVIKO	WILLIAM	CHIWAYA B	SAWO																	
10	DZONZI MVAI	KAMUUZENI	DZONZIMVAI																		
11	DZUNJE	CHINSEU	NTHINDA	NDAZALA	SAIWA	LIPENGA	KHUZI	SANJANI	HAUYA	CHODZADZA	KAMIZA	BUNYENGA	MALONDA	MMEMO							
12	GOWA	PHONYA	CHANGOMO	GOMONDA	MUWALO 1	KAMWIRI	MAKALA														
13	KALIMANJIRA	KALIMANJIRA 1	MWENDA	MCHIRAMBE	WILSON																
14	KAMPANJE	KANJUZI	MABENA	SELEMANI	ZIYEYANA																
15	KANDEU	MUJUSO 1	MAZIRA	KACHINJIKA	CHIDIKE	CHIZUZU	MAZONDA	KALIPANDE	CHATCHUKA	CHISANGU											
16	KAPENI	PESA	WANDAWANDA	KANZATI	MBEMBA																
17	KASINE	CHAULUKA	THONDOYA	ZUNGUZE	KASONYA	HARRY 1	PIYASI	SOLOMONI	CHIKULI 1	NDASAUKA	KUNALI	KAPENYA	MENYANI	NTONYO	CHIRIGONIRI	MDZODZO	CHIPEZAJAJEZA	KAMLANGI	KAMBEWA	GANYA 2	
18	KATSEKERA	ZUZE	MBIRINTENGERE	JOSHUA	CHISEME	UNDANI	BAYANI														
19	LAKEVIEW	NIOLOMOLE	MPHOYO	CHIKHAMWAZI	KALITSIRO																
20	LIZULU	KALILOMBE	MZAMANI 1	GAMBATULA	MAPILA	KAIYA	NYASA	MALUZA													
21	MANJAWIRA	MANJAWIRA 2	LIPHAVA	NIUNGA 2																	
22	MASASA	CHIMVULA	KALIMA 1	KADAMBO																	
23	MATANDA	NASIMANGO	CHIWAYA 2	JUMBE 2	MTENGOWABONDO																
24	MATCHEREZA	SAYENDA	HOWA	BILIWITA																	
25	MIKOKE	KASISI	KASISI 2	MKONDE 1																	
26	MLANDA	MWESADALA	JINGAPANSI	MALOPA																	
27	MLANGENI	KALAZA B	WAIYATSA	KANGOMA																	
28	MPHEPOZINAYI	PHALULA	KACHIKAKA	PAMDULE	KAUDZA 2	DEVETE	CHILUZI	MELESONI	SITOLE	KAPALAMULA	MATALALA	JOWELO									
29	MULUMA	TCHAUYA	KABUAZA	CHAKANIZA																	
30	MZAMA	NYAMUKA	LIYADA	ZAWANDA	CHINGONI	DICKSON															
31	NAMISU	LUSINJE	NSOLOMBA																		
32	NSIPE	CHIKAVUMBWA	KAMPEPUZA	GALUAKAUWA	CHIEPA	NDEMBO	CHINGWALU	HELLANI	CHIKOMBA	NSAKAMBWEWA											
33	NSIYALUDZU	GOVEYA	GWAZA 1	SOTCHAYA	KAFANTIPIPITE	GOMEYA 2	BALAKA 2	PEMBEREKA	DINALA	TCHEZA	NSIYALUDZU	ALASALA	MALANDA	JAMES GOBEDE							
34	NTCHEU D.H.	KANZINGENI 2	SENIOR QATERS	DCs line	SANDALAMU	THOMAS	MAMBALA	ZAKUTCHIRE 1	ENEYA 2	NEKEZA	BEN CHINSEU	KASALE 2	ZIPILANA	GUMBU	KABANGO	BONGA	KALUMBU	NDAGOMA	GONGOLO		
35	NTONDA	LAZALO	BWENJE 2	BONONGWE	CHABWERA	KANZINDA															
36	PHANGA	KUMBATILA	CHIGOME																		
37	SENZANI	CHIMPINI	MATALE 2	MATALE 3	CHIKHASU	BONONGWE 2															
38	SHARPVALE	NKUPHE	AGABU 2	SAITI MATCHERA 1	CHIGWEMBERE	KASADZU 2	CHIPATULA	KASADZU 1	BENESI 1	NDEMBO 1	PELEKANI										
39	TSANGANO	MAFUTA 2	KANKHUNI 1	KAVALA 2	MDZAWIRAPHAMBA	DZINJILIZA 1	KATSALA 2	CHILENGA													



**LIST OF HOUSEHOLDS PER HEALTH FACILITY**

	Health Centre	Health Facility registered HHs	Total Registered Villages per Health Facility	Villages to be sampled	% of Vllgs	HHs sampled per village	# of HHs sampled per Health Facility
1	BILILA H.F.	10,449	49	15	31%	35	525
2	BIRIWIRI H.F	3,970	22	6	27%	33	198
3	BWANJE H.F.	9,135	38	13	34%	35	455
4	CHAMPITI H.F.	2,725	23	4	17%	34	136
5	CHIGODI H.F.	3,367	16	5	31%	34	170
6	CHIKANDE H.F.	4,275	28	7	25%	31	217
7	CHIKOWA	1,031	9	2	22%	26	52
8	CHIOLE H.F	1,949	12	3	25%	33	99
9	DOVIKO H.F.	1,702	9	3	33%	29	87
10	DZONZI MVAI H.F.	1,034	8	2	25%	26	52
11	DZUNJE H.F	8,672	43	13	30%	34	442
12	GOWA H.F.	3,669	25	6	24%	31	186
13	KALIMANJIRA	2,668	14	4	29%	34	136
14	KAMPANJE H.F.	2,583	17	4	24%	32	128
15	KANDEU H.F.	5,855	35	9	26%	33	297
16	KAPENI H.F	2,582	22	4	18%	32	128
17	KASINJE H.F.	14,259	181	20	11%	36	720
18	KATSEKERA H.F.	3,951	21	6	29%	33	198
19	LAKE VIEW H.F.	2,294	10	4	40%	29	116
20	LIZULU H.F.	4,254	22	7	32%	31	217
21	MANJAWIRA H.F.	1,861	8	3	38%	31	93
22	MASASA H.F.	1,650	11	3	27%	28	84
23	MATANDA H.F.	2,325	13	4	31%	29	116
24	MATCHEREZA	1,745	15	3	20%	29	87
25	MIKOKE H.F.	1,733	11	3	27%	29	87
26	MLANDA H.F.	1,935	17	3	18%	32	96
27	MLANGENI H.F.	1,764	9	3	33%	30	90
28	MPHEPOZINAYI H.F.	7,552	47	11	23%	34	374
29	MULUMA H.F.	1,658	15	3	20%	28	84
30	MZAMA H.F.	2,994	20	5	25%	30	150
31	NAMISU	1,128	9	2	22%	28	56
32	NSIPE H.F.	6,091	36	9	25%	34	306
33	NSIYALUDZU H.F.	9,110	52	13	25%	35	455
34	NTCHEU D.H.,	12,379	61	18	30%	35	630
35	NTONDA H.F.	2,938	22	5	23%	30	150
36	PHANGA H.F.	1,220	12	2	17%	31	62
37	SENZANI H.F.	3,121	14	5	36%	31	155
38	SHARP VALLEY H.F.	6,497	34	10	29%	33	330
39	TSANGANO H.F.	4,809	24	7	29%	35	245
		<b>162,934</b>	<b>1,034</b>	<b>249</b>	<b>24%</b>		<b>8,209</b>

**Ntcheu 12 months PDCU - Timeline**

No.	ACTIVITY	December-16			January-17	
		12	19	26	2	9
1	Briefing of enumerators and supervisors					
2	Data collection					
3	Data entry					
4	Report writing					

## Appendix 2 - Detailed PDCU-12 results (4 pages)



Post-Distribution Check-Up (PDCU) for Ntcheu, Malawi: @

S Survey schedule: from November  
 Data entry schedule: from Dec 13th  
 Checking and analysis expected to be complete: Jan 2017  
**LIVE** - Data shown are updated in real time  
 Data entered as at: 15 Mar 2017 10:00

Presence of AMF Nets | Condition of AMF nets | Usage of the nets | Miscellaneous data | Comments

Location	Date	Households			Forms Signed		AMF Nets										Last entry on	by		
		Target	#	%	#	%	Nets received	Hung	Present Not Hung	Missing	Worn out/ not usable	M+ WO								
							#	%	#	%	#	%	#	%	#	%				
	23 Jan 2017	9,750	8,210		84	8,210	100		19,146	13,772	72	2,998	16	724	4	1,652	9	12		
1 DP197 Malawi, Bilila	30 Dec 2016	250	525	210	525	100	1,247	825	66	267	21	60	5	95	8	12		27 Jan 2017	09:30	NC
2 DP197 Malawi, Birwiriri	04 Jan 2017	250	198	79	198	100	451	336	13	45	10	29	6	41	9	10		31 Jan 2017	09:31	NC
3 DP197 Malawi, Bwanje	28 Dec 2016	250	455	182	455	100	1,048	739	71	171	16	56	5	82	8	13		29 Jan 2017	12:41	NC
4 DP197 Malawi, Champiti	21 Dec 2016	250	136	54	136	100	383	295	77	42	11	18	5	28	7	11		01 Feb 2017	04:30	NC
5 DP197 Malawi, Chigodi	05 Jan 2017	250	170	68	170	100	356	255	72	59	17	25	7	17	5	12		27 Jan 2017	14:25	NC
6 DP197 Malawi, Chikande	28 Dec 2016	250	217	87	217	100	478	354	74	64	13	6	1	54	11	13		01 Feb 2017	08:51	NC
7 DP197 Malawi, Chikowa	22 Dec 2016	250	52	21	52	100	122	93	76	19	16	9	7	1	1	8		01 Feb 2017	10:56	NC
8 DP197 Malawi, Chiole	05 Jan 2017	250	99	40	99	100	238	191	80	28	11	9	4	10	4	8		01 Feb 2017	12:22	NC
9 DP197 Malawi, Doviko	20 Dec 2016	250	87	35	87	100	177	111	63	25	14	10	6	31	18	23		01 Feb 2017	05:30	NC
10 DP197 Malawi, Dzonzi	21 Dec 2016	250	52	21	52	100	116	61	53	20	17	12	10	23	20	30		01 Feb 2017	12:46	NC
11 DP197 Malawi, Dzunjje	04 Jan 2017	250	442	177	442	100	1,016	767	75	171	17	39	4	39	4	8		30 Jan 2017	11:51	NC
12 DP197 Malawi, Gowa	29 Dec 2016	250	186	74	186	100	577	437	76	92	16	15	3	33	6	8		01 Feb 2017	08:13	NC
13 DP197 Malawi, Kalimanjira	06 Jan 2017	250	136	54	136	100	309	216	70	69	22	13	4	11	4	8		01 Feb 2017	10:23	NC
14 DP197 Malawi, Kampanje	29 Dec 2016	250	128	51	128	100	312	222	71	58	19	2	1	30	10	19		26 Jan 2017	19:46	NC
15 DP197 Malawi, Kandeu	03 Jan 2017	250	297	119	297	100	656	601	92	37	6	1	0	17	3	3		25 Jan 2017	09:50	NC
16 DP197 Malawi, Kapeni	23 Dec 2016	250	128	51	128	100	290	232	80	21	7	0	0	37	13	13		26 Jan 2017	12:54	NC
17 DP197 Malawi, Kasinje	27 Dec 2016	250	719	288	719	100	1,680	1,180	70	335	20	38	2	127	8	10		21 Feb 2017	13:15	NC
18 DP197 Malawi, Katsakara	20 Dec 2016	250	198	79	198	100	420	323	77	51	13	2	0	44	10	11		26 Jan 2017	10:25	NC
19 DP197 Malawi, Lakeview	02 Jan 2017	250	116	46	116	100	300	256	85	30	10	0	0	14	5	5		27 Jan 2017	08:31	NC
20 DP197 Malawi, Lizulu	02 Jan 2017	250	217	87	217	100	499	402	81	61	13	6	1	30	8	7		25 Jan 2017	14:23	NC
21 DP197 Malawi, Manjawira	23 Dec 2016	250	93	37	93	100	234	169	72	37	16	11	5	17	7	13		03 Feb 2017	09:10	NC
22 DP197 Malawi, Masasa	02 Jan 2017	250	84	34	84	100	232	125	54	61	26	16	7	30	13	20		28 Jan 2017	20:53	NC
23 DP197 Malawi, Matanda	03 Jan 2017	250	116	46	116	100	203	113	56	11	5	2	1	77	38	39		25 Jan 2017	16:06	NC
24 DP197 Malawi, Matchereza	22 Dec 2016	250	87	35	87	100	173	127	73	17	10	14	8	15	9	17		28 Jan 2017	19:24	NC
25 DP197 Malawi, Mikoko	23 Jan 2017	250	87	35	87	100	218	176	81	13	6	0	0	29	13	13		27 Jan 2017	15:04	NC
26 DP197 Malawi, Mlanda	01 Jan 2017	250	96	38	96	100	207	126	61	49	24	2	1	30	14	15		27 Jan 2017	11:10	NC
27 DP197 Malawi, Mlangeni	02 Jan 2017	250	90	36	90	100	201	151	75	28	14	0	0	22	11	11		27 Jan 2017	12:52	NC
28 DP197 Malawi, Mphopezinai	03 Jan 2017	250	374	150	374	100	834	545	65	207	25	19	2	63	8	10		24 Jan 2017	16:02	NC
29 DP197 Malawi, Muluma	05 Jan 2017	250	84	34	84	100	211	146	69	43	20	7	3	15	7	10		03 Feb 2017	06:07	NC
30 DP197 Malawi, Mzama	21 Dec 2016	250	150	60	150	100	298	201	67	57	19	9	3	31	10	13		30 Jan 2017	14:11	NC
31 DP197 Malawi, Namisu	22 Dec 2016	250	56	22	56	100	109	63	58	20	18	8	7	18	17	24		27 Jan 2017	14:29	NC
32 DP197 Malawi, Nsipe	20 Dec 2016	250	307	123	307	100	759	588	77	82	11	35	5	54	7	10		21 Feb 2017	13:20	NC
33 DP197 Malawi, Nsiyaludzu	22 Dec 2016	250	455	182	455	100	1,006	698	69	104	10	91	9	113	11	20		03 Feb 2017	12:35	NC
34 DP197 Malawi, Ntcheu	31 Dec 2016	250	631	252	631	100	1,636	1,198	73	267	10	65	4	106	6	10		21 Feb 2017	13:17	NC
35 DP197 Malawi, Ntonda	22 Dec 2016	250	150	60	150	100	321	251	78	24	7	20	6	26	8	14		03 Feb 2017	12:06	NC
36 DP197 Malawi, Phanga	08 Jan 2017	250	62	25	62	100	150	115	77	13	9	2	1	20	13	15		31 Jan 2017	08:08	NC
37 DP197 Malawi, Senzani	22 Dec 2016	250	155	62	155	100	374	253	68	49	13	17	5	55	15	19		03 Feb 2017	09:06	NC
38 DP197 Malawi, Sharpevalley	02 Jan 2017	250	330	132	330	100	743	484	65	155	21	35	5	69	9	14		29 Jan 2017	21:06	NC
39 DP197 Malawi, Tsangano	20 Dec 2016	250	245	98	245	100	562	347	62	96	17	21	4	98	17	21		03 Feb 2017	09:26	NC

**Key**

Forms Signed: 0% > 95% > 96% > 98+% **Green** - Very good  
 Nets Hung: 0% > 67% > 76% > 83+% **Light Green** - Good  
 Nets Present Not Hung: 100% > 17% > 14% > 9-% **Orange** - Acceptable  
 Nets Missing (M): 100% > 9% > 7% > 6-% **Red** - Recommend action is taken  
 Nets Worn Out (WO): 100% > 8% > 3% > 2-%  
 M + WO: 100% > 8% > 3% > 2-%

**Explanation**

The green, light green, orange and red traffic-light system indicates 'Very Good', 'Good', 'Acceptable' and 'Recommend action is taken'. This is an educated estimate by AMF staff and is not presented as a scientific assessment. They are based on a review of research studies and other data which suggest a typical hang-up (net use) and degradation (net condition) profile for nets. We have tried to be conservative in setting the grade boundaries to try and avoid overstating how well the nets may be performing. We are currently liaising with advisors to gain further advice on where these bands should fall.





Post-Distribution Check-Up (PDCU) for Ntcheu, Malawi: @

S Survey schedule: from November  
 Data entry schedule: from Dec 13th  
 Checking and analysis expected to be complete: Jan 2017  
 LIVE - Data shown are updated in real time  
 Data entered as at: 15 Mar 2017 10:00

Presence of AMF Nets Condition of AMF nets Usage of the nets Miscellaneous data Comments

Job	AMF Nets								AMF Olyset nets								AMF Permatet nets													
	Total	#	%	#	%	#	%	Rating	Total	#	%	#	%	#	%	Rating	Total	#	%	#	%	#	%	Rating						
	15,381,917	171	60	4,001	26	557	41	652	11	53	8,935,549	61	2,202	25	324	4	960	11	53	6,446,372	58	1,799	28	233	4	692	11	53		
1 DP197 Malawi, Billia	920	517	56	273	30	35	4	95	10	53	492	293	60	135	27	13	3	51	10	53	428	224	52	138	32	22	5	44	10	52
2 DP197 Malawi, Biritwiri	377	203	54	120	32	13	3	41	11	32	117	46	39	53	45	5	4	13	11	49	260	157	60	67	26	8	3	28	11	53
3 DP197 Malawi, Bwanje	821	455	55	226	28	58	7	82	10	52	433	236	55	118	27	36	8	43	10	52	388	219	56	108	28	22	6	39	10	53
4 DP197 Malawi, Champiti	323	239	74	41	13	15	5	28	9	37	195	131	67	33	17	14	7	17	9	55	128	108	84	8	6	1	1	11	9	59
5 DP197 Malawi, Chigodi	272	150	55	70	26	35	13	17	6	55	132	73	55	32	24	19	14	8	6	55	139	76	55	38	27	16	12	9	6	55
6 DP197 Malawi, Chikanda	408	193	47	140	34	21	5	54	13	48	264	130	49	86	33	13	5	35	13	49	141	63	45	53	38	6	4	19	13	48
7 DP197 Malawi, Chikowa	94	60	64	32	34	1	1	1	69	36	22	61	13	36	1	3	0	0	71	58	38	66	19	33	0	0	1	2	69	
8 DP197 Malawi, Chiole	201	105	52	69	34	17	8	10	5	56	66	47	71	16	24	0	0	3	5	63	135	58	43	53	39	17	13	7	5	54
9 DP197 Malawi, Doviko	142	60	42	46	32	5	4	31	22	39	90	55	61	13	14	2	2	20	22	42	52	5	10	33	63	3	6	11	21	35
10 DP197 Malawi, Dzonzi	84	23	27	33	39	5	6	23	27	32	39	9	23	15	38	4	10	11	28	30	45	14	31	18	40	1	2	12	27	34
11 DP197 Malawi, Dzunje	806	574	71	176	22	17	2	39	5	61	151	110	73	34	23	0	0	7	5	63	654	463	71	142	22	17	3	32	5	60
12 DP197 Malawi, Gowa	470	264	56	154	33	19	4	33	7	56	245	146	60	68	28	14	6	17	7	56	224	118	53	85	38	5	2	16	7	55
13 DP197 Malawi, Kalimanjira	227	140	62	73	32	3	1	11	5	59	123	78	63	38	31	1	1	6	5	59	104	62	60	35	34	2	2	5	5	59
14 DP197 Malawi, Kampanje	252	206	82	16	6	0		30	12	55	180	145	81	14	8	0	0	21	12	55	72	61	85	2	3	0	0	9	13	55
15 DP197 Malawi, Kandeu	618	403	65	194	31	4	1	17	3	65	342	237	69	96	28	0	0	9	3	68	276	166	60	98	36	4	1	8	3	62
16 DP197 Malawi, Kapani	269	97	36	97	36	38	14	37	14	45	220	83	38	72	33	25	16	30	14	45	49	14	29	25	51	3	6	7	14	44
17 DP197 Malawi, Kasinje	1307	719	55	403	31	58	4	127	10	53	1,164	652	56	347	30	52	4	113	10	53	141	67	48	54	38	6	4	14	10	53
18 DP197 Malawi, Katsakera	367	163	44	142	39	18	5	44	12	49	183	78	43	71	39	12	7	22	12	49	184	85	46	71	39	6	3	22	12	50
19 DP197 Malawi, Lakeview	270	183	68	73	27	0		14	5	60	156	117	75	31	20	0	0	8	5	63	114	66	58	42	37	0	0	6	5	58
20 DP197 Malawi, Lizulu	432	264	61	125	29	13	3	30	7	57	208	141	68	47	23	6	3	14	7	58	224	123	55	78	35	7	3	16	7	55
21 DP197 Malawi, Manjavira	186	119	64	46	25	4	2	17	9	55	74	47	64	20	27	0	0	7	9	55	107	67	63	26	24	4	4	10	9	54
22 DP197 Malawi, Masasa	155	93	60	29	19	3	2	30	19	44	138	88	64	23	17	0	0	27	20	45	17	5	29	6	35	3	18	3	18	39
23 DP197 Malawi, Matanda	190	35	18	55	29	23	12	77	41	20	84	17	20	22	26	11	13	34	40	20	106	18	17	33	31	12	11	43	41	20
24 DP197 Malawi, Matchareza	142	89	63	35	25	3	2	15	11	33	47	18	38	22	47	2	4	5	11	50	95	71	75	13	14	1	1	10	11	55
25 DP197 Malawi, Mikoko	205	63	31	100	49	13	6	29	14	45	55	26	47	21	38	0	0	8	15	48	150	37	25	79	53	13	9	21	14	43
26 DP197 Malawi, Mlanda	156	98	37	66	42	2	1	30	19	41	115	44	38	49	43	0	0	22	19	42	41	14	34	17	41	2	5	8	20	40
27 DP197 Malawi, Mlangeni	173	77	45	70	40	4	2	22	13	49	91	45	49	31	34	3	3	12	13	49	82	32	39	39	48	1	1	10	12	49
28 DP197 Malawi, Mphapozinali	608	380	63	151	25	14	2	63	10	54	318	211	66	67	21	7	2	33	10	54	290	169	58	84	29	7	2	30	10	53
29 DP197 Malawi, Muluma	161	117	73	28	17	1	1	15	9	56	81	58	72	14	17	1	1	8	10	56	79	59	75	13	16	0	0	7	9	57
30 DP197 Malawi, Mzama	232	132	57	63	27	6	3	31	13	30	117	65	56	33	28	3	3	16	14	50	115	67	58	30	26	3	3	15	13	51
31 DP197 Malawi, Namisu	81	32	40	23	28	8	10	18	22	38	57	22	39	15	26	7	12	13	23	37	24	10	42	8	33	1	4	5	21	40
32 DP197 Malawi, Nsipe	642	407	63	169	26	12	2	54	8	56	629	399	63	165	26	12	2	53	8	56	9	5	56	3	33	0	0	1	11	5
33 DP197 Malawi, Nsiyaludzu	811	554	68	114	14	30	4	113	14	51	390	262	67	60	15	14	4	54	14	51	417	290	70	53	13	16	4	58	14	51
34 DP197 Malawi, Ntcheu	1304	933	72	233	18	32	2	106	8	57	1,032	762	74	165	16	21	2	84	8	57	263	165	63	66	25	11	4	21	8	56
35 DP197 Malawi, Ntonda	277	189	68	58	21	4	1	26	9	55	164	117	71	29	18	3	2	15	9	56	110	70	64	29	26	1	1	10	9	55
36 DP197 Malawi, Phanga	135	69	51	44	33	2	1	20	15	48	62	29	47	22	35	2	3	9	15	47	72	40	56	21	29	0	0	11	15	48
37 DP197 Malawi, Senzani	308	211	69	39	13	3	1	55	18	47	153	105	69	20	13	1	1	27	18	48	153	106	69	18	12	2	1	27	18	48
38 DP197 Malawi, Sharpevalley	553	359	65	114	21	11	2	69	12	52	295	200	68	52	18	6	2	37	13	51	255	158	62	60	24	5	2	32	13	52
39 DP197 Malawi, Tsanganu	444	263	59	74	17	9	2	98	22	42	191	105	55	40	21	4	2	42	22	41	245	152	62	34	14	5	2	54	22	42

Key  
 Rating 0% > 50% > 60% > 70+%  
 Green - Very good  
 Light Green - Good  
 Orange - Acceptable  
 Red - Recommend action is taken

Explanation  
 The green, light green, orange and red traffic-light system indicates 'Very Good', 'Good', 'Acceptable' and 'Recommend action is taken'. An overall colour rating is used to give a simple visual overview of how well the nets are lasting. This is an educated estimate by AMF staff and is not presented as a scientific assessment. The rating is calculated considering the proportion of nets in each condition. Performance (colour) bands are established considering published research and other data on how nets typically degrade over time. We are currently liaising with advisors to gain further advice on where these bands should fall.



Post-Distribution Check-Up (PDCU) for Ntcheu, Malawi: @

S Survey schedule: from November  
 Data entry schedule: from Dec 13th  
 Checking and analysis expected to be complete: Jan 2017  
 LIVE - Data shown are updated in real time  
 Data entered as at: 15 Mar 2017 10:00

Presence of AMF Nets | Condition of AMF nets | Usage of the nets | Miscellaneous data | Comments

Job	Nets Used				Household used				People sleeping under nets								Coverage						
	Correctly		Not Correctly		Correctly		Not correctly		Children under 5		Children 5 to 18		Pregnant women		Other adults		Total	Sleeping spaces		People			
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	#	Covered	%	#	Covered	%
	14,908	100	40	0	6,724	100	22	0	4,882	17	11,122	38	425	1	13,151	44	29,580	19,111	14,953	78	36,890	29,580	80
1 DP197 Malawi, Bilila	872	100	4	0	399	99	3	1	261	15	664	39	26	2	758	44	1,709	1,243	876	70	2,370	1,709	72
2 DP197 Malawi, Birwirin	372	99	2	1	161	99	1	1	125	17	269	36	26	3	325	44	745	456	374	82	883	745	84
3 DP197 Malawi, Bwanje	815	100	4	0	360	99	2	1	309	18	659	39	18	1	719	42	1,705	1,023	819	80	2,074	1,705	82
4 DP197 Malawi, Champiti	299	100	0	0	127	100	0	0	73	14	203	39	4	1	237	46	517	350	299	85	602	517	86
5 DP197 Malawi, Chigodi	298	99	3	1	136	99	2	1	115	19	228	37	16	3	259	42	618	376	301	80	760	618	81
6 DP197 Malawi, Chikande	409	100	0	0	180	100	0	0	113	14	369	44	5	1	349	42	836	524	409	78	1,044	836	80
7 DP197 Malawi, Chikowa	95	100	0	0	47	100	0	0	25	15	68	40	2	1	74	44	169	110	95	86	194	169	87
8 DP197 Malawi, Chiole	196	100	0	0	86	100	0	0	40	12	148	43	4	1	150	44	342	246	196	80	426	342	80
9 DP197 Malawi, Doviko	113	98	2	2	61	97	2	3	41	17	78	33	0	0	118	50	237	195	115	59	364	237	65
10 DP197 Malawi, Dzonzi	71	100	0	0	36	100	0	0	20	13	53	36	3	2	73	49	149	119	71	60	221	149	67
11 DP197 Malawi, Dzunjje	821	100	2	0	373	100	1	0	255	16	583	37	10	1	749	47	1,597	1,009	823	82	1,919	1,597	83
12 DP197 Malawi, Gowa	446	100	2	0	168	99	2	1	100	13	331	44	8	1	318	42	757	521	448	86	881	757	86
13 DP197 Malawi, Kalimanjira	230	100	0	0	105	100	0	0	84	18	167	36	5	1	209	45	465	314	230	73	607	465	77
14 DP197 Malawi, Kampanje	239	100	0	0	108	100	0	0	90	19	162	34	2	0	216	46	470	297	239	80	570	470	82
15 DP197 Malawi, Kandeu	626	100	1	0	277	100	1	0	200	16	481	39	10	1	533	44	1,224	707	627	89	1,350	1,224	91
16 DP197 Malawi, Kapeni	245	100	0	0	109	100	0	0	53	12	165	38	6	1	205	48	429	294	245	83	506	429	85
17 DP197 Malawi, Kasinjje	1,270	99	13	1	569	99	4	1	450	17	1,019	38	41	2	1,152	43	2,662	1,643	1,283	78	3,287	2,662	81
18 DP197 Malawi, Katsakera	338	100	0	0	175	100	0	0	144	19	282	37	14	2	322	42	762	416	338	81	900	762	85
19 DP197 Malawi, Lakeview	262	100	0	0	109	100	0	0	63	13	202	42	4	1	212	44	481	294	262	89	537	481	90
20 DP197 Malawi, Lizulu	444	100	0	0	178	100	0	0	106	13	319	40	8	1	363	46	796	528	444	84	944	796	84
21 DP197 Malawi, Manjavira	182	100	0	0	78	100	0	0	70	20	127	37	3	1	143	42	343	224	182	81	424	343	81
22 DP197 Malawi, Masasa	134	100	0	0	63	100	0	0	44	17	101	39	0	0	115	44	260	213	134	63	399	260	65
23 DP197 Malawi, Matanda	147	100	0	0	66	100	0	0	71	21	94	28	2	1	164	50	331	258	147	57	551	331	60
24 DP197 Malawi, Matchereza	137	100	0	0	68	100	0	0	37	13	117	42	6	2	121	43	281	190	137	72	382	281	74
25 DP197 Malawi, Mikoke	179	100	0	0	76	100	0	0	37	12	141	45	1	0	133	43	312	228	179	79	402	312	78
26 DP197 Malawi, Mlanda	147	100	0	0	69	100	0	0	58	19	110	36	4	1	134	44	306	206	147	71	408	306	75
27 DP197 Malawi, Mlangeni	163	100	0	0	72	100	0	0	55	17	118	36	7	2	146	45	326	223	163	73	434	326	75
28 DP197 Malawi, Mphopezinai	627	100	0	0	288	100	0	0	217	16	483	37	22	2	601	45	1,323	827	627	76	1,666	1,323	79
29 DP197 Malawi, Muluma	157	100	0	0	75	100	0	0	55	17	110	35	5	2	148	47	318	187	157	84	365	318	87
30 DP197 Malawi, Mzama	231	99	3	1	117	98	3	2	99	20	134	27	7	1	258	52	498	314	234	75	640	498	78
31 DP197 Malawi, Namisu	73	100	0	0	41	100	0	0	38	22	52	31	3	2	77	45	170	113	73	65	252	170	67
32 DP197 Malawi, Nsipe	615	100	0	0	278	100	0	0	166	14	466	40	32	3	487	42	1,151	761	615	81	1,447	1,151	80
33 DP197 Malawi, Nsiyaludzu	773	100	0	0	367	100	0	0	260	17	535	35	30	2	711	46	1,536	988	773	78	1,880	1,536	82
34 DP197 Malawi, Ntcheu	1,295	100	3	0	545	100	0	0	358	15	864	37	48	2	1,096	46	2,366	1,593	1,303	82	2,835	2,366	83
35 DP197 Malawi, Ntonda	270	100	1	0	134	99	1	1	118	21	114	33	4	1	257	46	563	327	271	83	653	563	86
36 DP197 Malawi, Phanga	122	100	0	0	53	100	0	0	47	17	115	43	1	0	106	39	269	147	122	83	310	269	87
37 DP197 Malawi, Senzani	270	100	0	0	122	100	0	0	73	15	169	34	7	1	254	50	503	346	270	78	660	503	76
38 DP197 Malawi, Sharpevalley	550	100	0	0	262	100	0	0	235	20	450	38	15	1	490	41	1,190	751	550	73	1,505	1,190	79
39 DP197 Malawi, Tsanganu	375	100	0	0	186	100	0	0	177	20	302	35	16	2	369	43	864	550	375	68	1,238	864	70

Used correctly **0% > 90% > 95+%** The green, orange and red traffic-light system indicates 'very good', 'OK' and 'recommend action is taken'. They are based on an educated assessment of what figures would represent very good, OK, and not so good use and condition of the nets. We are currently liaising with a number of individuals to gain further advice on where these bands should fall.

Coverage **0% > 90% > 95+%**





Post-Distribution Check-Up (PDCU) for Ntcheu, Malawi: @

S Survey schedule: from November  
 Data entry schedule: from Dec 13th  
 Checking and analysis expected to be complete: Jan 2017  
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 Data entered as at: 15 Mar 2017 10:00

		Malaria in last month				Type of AMF nets			Type of all nets		
		Households		People		Oly	Perm	?	Oly	Perm	?
Job		#	%	#	%	#	#	#	#	#	#
		1291	16	1,469	47,691	5,160	42	7,695	5,160	1,220	
1	DP197 Malawi, Billia	73	14	81	3	492	428	0	492	428	0
2	DP197 Malawi, Birwini	45	23	51	6	117	260	0	117	260	0
3	DP197 Malawi, Bwanje	64	14	71	3	433	388	0	433	388	0
4	DP197 Malawi, Champiti	17	13	19	3	195	128	0	195	128	0
5	DP197 Malawi, Chigodi	22	13	25	3	132	139	1	132	139	1
6	DP197 Malawi, Chikande	50	23	61	6	264	141	3	264	141	3
7	DP197 Malawi, Chikowa	17	33	18	9	36	58	0	36	58	0
8	DP197 Malawi, Chiole	18	18	18	4	66	135	0	66	135	0
9	DP197 Malawi, Doviko	1	1	1	0	90	52	0	90	52	0
10	DP197 Malawi, Dzonzi	6	12	6	3	39	45	0	39	45	0
11	DP197 Malawi, Dzunje	59	13	63	3	151	654	1	151	654	1
12	DP197 Malawi, Gowa	24	13	27	3	245	224	1	245	224	1
13	DP197 Malawi, Kalimanjira	20	15	21	3	123	104	0	123	104	0
14	DP197 Malawi, Kampanje	21	16	25	4	180	72	0	180	72	0
15	DP197 Malawi, Kandeu	48	16	52	4	342	276	0	342	276	0
16	DP197 Malawi, Kapeni	16	13	19	4	220	49	0	220	49	0
17	DP197 Malawi, Kasinje	97	13	109	3	1,164	141	2	1,164	141	2
18	DP197 Malawi, Katsakera	26	13	27	3	183	184	0	183	184	0
19	DP197 Malawi, Lakeview	16	14	17	3	156	114	0	156	114	0
20	DP197 Malawi, Lizulu	29	13	31	3	208	224	0	208	224	0
21	DP197 Malawi, Manjavira	9	10	10	2	74	107	5	74	107	5
22	DP197 Malawi, Masasa	26	31	33	8	138	17	0	138	17	0
23	DP197 Malawi, Matanda	20	17	24	4	84	106	0	84	106	0
24	DP197 Malawi, Matchereza	15	17	15	4	47	95	0	47	95	0
25	DP197 Malawi, Mikoko	18	21	19	5	55	150	0	55	150	0
26	DP197 Malawi, Mlanda	15	16	21	5	115	41	0	115	41	0
27	DP197 Malawi, Mlangeni	14	16	17	4	91	82	0	91	82	0
28	DP197 Malawi, Mphepozinai	62	17	71	4	318	290	0	318	290	0
29	DP197 Malawi, Muluma	23	27	32	9	81	79	1	81	79	1
30	DP197 Malawi, Mizama	30	20	37	6	117	115	0	117	115	0
31	DP197 Malawi, Namisu	5	9	6	2	57	24	0	57	24	0
32	DP197 Malawi, Nsipe	50	16	54	4	629	9	4	629	9	4
33	DP197 Malawi, Nsiyaludzu	65	14	78	4	390	417	3	390	417	3
34	DP197 Malawi, Ntcheu	108	17	129	5	1,032	263	8	1,032	263	8
35	DP197 Malawi, Ntonda	37	25	40	6	164	110	2	164	110	2
36	DP197 Malawi, Phanga	17	27	21	7	62	72	1	62	72	1
37	DP197 Malawi, Senzani	15	10	18	3	153	153	1	153	153	1
38	DP197 Malawi, Sharpevalley	51	15	55	4	295	255	3	295	255	3
39	DP197 Malawi, Tsangano	42	17	47	4	191	245	6	191	245	6