



**Ntcheu District, Malawi**

**Post-Distribution Check-Up (PDCU)  
at 33-months**

**October to December 2014**

**REPORT**

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## **1. Executive Summary**

This report represents the results of the 33 months PDCU conducted in October to December 2014. Data was gathered in all of the district's 37 Health Centre Areas (HCAs). 9,500 households (HH) were randomly selected and visited unannounced.

At 33 months post-distribution, sleeping space coverage with a viable net had fallen to 52% from 81% at 24 months. The rate of decline of sleeping space coverage in the first 24 months was 0.5% per month (from 90% at month 6, 85% at month 15 to 81% at month 24) and was 3% per month on average from month 24 to month 33.

Net hang-up, condition and 'net present but not hung' information for each of the 37 HCAs has been passed to the Ntcheu District Health Office Malaria Coordinator (MC), the District Environmental Health Officer (DEHO) and District Health Officer (DHO) to assist in designing further potential targeted malaria intervention activities.

The PDCU cost was US\$14,448 equal to US\$1.52 per household visited (or \$0.053 per net originally distributed).

## **2. Background**

Ntcheu District is one of Malawi's 28 districts and has a population of 550,000 and 132,000 households. A universal coverage distribution of 268,420 LLIN was carried out from December 2011 to April 2012.

As an impact-monitoring tool of net usage and net condition, a Post-Distribution Check-Up survey (PDCU) is carried out at 6 months intervals after the distribution.

## **3. Results and comment**

- 9,500 HHs visited (7.2% of the HHs that received nets in the original distribution)
- 20,688 nets checked
- 52% of the nets were found to be hung and in use.
- 13% of the nets were found to be in 'very good condition' (fewer than 2 holes of up to 2cm in size), 23% 'good condition' (fewer than 10 small holes on them) and 19% in 'viable condition', with more than 10 holes or 1 hole larger than 10 cm, while 45% were 'worn out'. Therefore, 55% protecting, 45% not.
- The survey found 21% of those using the nets were children under 5 years, while 31% were children, 2% were pregnant women and 46% being adults.
- Condition of the nets compared to expectation: Acceptable.

See Appendix 2 for detailed results.

### **Comment**

The data collected showed levels of net use and net condition had fallen markedly since the PDCU at 24 months when coverage levels were 81%. There has been a shallow rate of decline in coverage over the first 24 months (0.5% decline per month: 90% at 6 months, through 85% at 15 months, to 81% at 24 months post-distribution) and a much steeper rate of decline starting at some point after 24 months (an average of 3% per month, so six times as rapid).

Malawi, Ntcheu District - Net usage and condition over 33 months post-distribution								
	Net usage			Net condition				
PDCU	Hung (%)	Present, not hung (%)	Missing or Worn Out (%)	Very good (%)	Good (%)	Viable (%)	Subtotal viable or above (%)	Worn Out or Missing (%)
6 month	90	8	2	98	1	0	99	2
15 month	85	10	5	86	6	2	94	5
24 months	81	8	11	47	27	14	88	11
33 months	52	3	45	13	22	18	53	45

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 developments.

One possible development is an ‘injection strategy’ that brings in a quantity of nets at 24 months, and perhaps at 12 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, and perhaps 12 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% during a significant part of year three post-distribution and better malaria control is likely to be achieved through maintaining an 80% or above coverage level during this third year.

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 three 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-33 Planning document for details.

### **Budgeting**

A budget was prepared using cost drivers for each cost item. This allowed strong estimating of costs and a clear comparison between budget and actual costs. See PDCU-33 Budget vs Actual document.

### **Resource selection**

There are 37 Health Centres (HCs) in Ntcheu District. Each has approximately 20 staff attached to each one, the majority being salaried Health Surveillance Assistants (HSAs).

However, in collaboration with the District Environmental Health Office (DEHO) and Malaria Coordinator (MC) and lessons learnt from 24 month Ntcheu PDCU, it was recommended to have a focused team of 10 data collectors rather than have the HSAs as data collectors from each HCA. 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 thirty seven days collecting data rather than the one or several days if many more data collectors were to be used. This was judged the preferable way of organising 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 13<sup>th</sup> October conducted by CU and MOH Staff - Malaria Coordinator (MC) and Assistant District Environmental Health Officers (ADEHOs).

Supervisors: There were 2 supervisors. The data enumerators briefing also familiarized the supervisors with the overall survey objectives, timing and their specific responsibilities.

Data collectors: There were 10 data collectors involved in collecting data, selected from within the district. The orientation included detailed explanation of the LLIN Distribution project background, how the beneficiaries were identified, the process of registration, data verification and LLIN net distribution, 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 37 health facilities. It was recommended to collect data from 5% of households in each HCCA, which meant a different number of households in each HCCA as per individual health facility populations (refer to appendix A).

Between 100 and 550 households were randomly selected from each of the selected four to 22 villages, depending on the HCCA.

Villages were randomly selected using the village lists generated from the pre-distribution and distribution work for the December 2011-April 2012 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. Five more households were put on reserve in case no one was at home in the selected households.

### **Data collection**

10 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 50 households per day.

### **Data collection checking**

Supervisors were required to visit 5% of the households being interviewed 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 four 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 Ntcheu (Ntcheu PDCU-24) 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 MK 5,779,367.00 (US\$14,448) and the total PDCU cost was MK 5,774,064.00 (US\$12,607). MK = Malawi Kwacha.

### **Budget vs actual costs**

ITEM	BUDGET COST	ACTUAL COST	DELTA
BRIEFING/ORIENTATION	51,535	52,100	1.08%
DATA COLLECTION	4,873,532	4,615,267	-5.60%
DATA ENTRY	336,000	336,000	0 %
STATIONARY	196,400	266,199	26.22%
MANAGEMENT	321,900	504,498	36.19%
<b>GRAND TOTAL (MK)</b>	<b>MK 5,779,367</b>	<b>MK 5,774,064</b>	<b>-0.09%</b>
<b>GRAND TOTAL (US\$)</b>	<b>\$14,448</b>	<b>\$12,607</b>	<b>-14.61%</b>

### **Comment**

The PDCU came in exactly on budget in Malawi Kwacha. Given the exchange rate MK:USD moved in our favour, in USD terms, the cost was approximately 15% less expensive than expected. CU has managed the budget very well.

## **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, 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 were committed to collecting the data.

The elements that did not go so well were:

- In some selected villages, on a planned data collection day, the team faced challenges due to funerals hence data collection was delayed.

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 Ntcheu District Assembly, Malaria Coordinator (MC) and the Assistant Environmental Health Officer (AEHO) 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 over the weekends and on public holidays just to accomplish the mission and meet the timelines.



## Appendix 1 - Health Areas and households visited

	Health Centre	Health Facility registered HHS	Total Registered Villages per Health Facility	Villages to be sampled	HHS sampled per village	# of HHS sampled per Health Facility
1	TSANGANO H.F.	6,247	27	15	25	375
2	DOVIKO H.F.	1,281	5	5	25	125
3	MATANDA H.F.	1,573	10	6	25	150
4	KATSEKERA H.F.	3,407	21	10	25	250
5	MZAMA H.F.	2,324	20	10	25	250
6	DZONZI MVAI H.F.	878	8	4	25	100
7	NTCHEU D.H.,	10,102	53	20	25	500
8	CHIOLE H.F	1,643	11	5	25	125
9	DZUNJE H.F	7,418	42	15	25	375
10	NSIPE H.F.	5,148	44	10	25	250
11	CHAMPITI H.F.	2,108	20	10	25	250
12	KAPENI H.F	2,893	31	10	25	250
13	NTONDA H.F.	2,461	21	10	25	250
14	NAMISU / MATCHEREZA H.F.	2,290	22	10	25	250
15	SENZANI H.F.	2,371	20	10	25	250
16	MIKOKE H.F.	1,448	12	10	25	250
17	MANJAWIRA H.F.	1,611	8	8	25	200
18	NSIYALUDZU H.F.	7,961	55	16	25	400
19	CHIKANDE H.F.	3,483	35	10	25	250
20	BILILA H.F.	6,247	31	12	25	300
21	BWANJE H.F.	7,903	27	16	25	400
22	SHARP VALLEY H.F.	5,067	30	10	25	250
23	KASINJE H.F.	10,790	60	22	25	550
24	PHANGA H.F.	972	15	5	25	125
25	CHIGODI H.F.	2,870	15	10	25	250
26	KANDEU H.F.	2,006	15	10	25	250
27	GANYA HF	3,032	20	10	25	250
28	MPHEPOZINAYI H.F.	6,226	45	13	25	325
29	MULUMA H.F.	1,461	15	5	25	125
30	GOWA H.F.	3,396	25	10	25	250
31	KAMPANJE H.F.	2,331	18	10	25	250
32	BIRIWIRI H.F	3,139	24	10	25	250
33	MLANGENI H.F.	1,570	9	9	25	225
34	LAKE VIEW H.F.	1,790	8	8	25	200
35	LIZULU H.F.	3,843	22	10	25	250
36	MLANDA H.F.	1,582	17	10	25	250
37	MASASA H.F.	1,387	11	6	25	150
		<b>132,259</b>	<b>872</b>	<b>380</b>		<b>9,500</b>

## Appendix 2 - Detailed PDCU-33 results (4 pages)

### PDS Job Summary

DistributionID: DP184 [change distribution](#) Report Stage: 33 months

### Post-Distribution Check-Up (PDCU) for Ntcheu, Malawi: @ 33-months (Oct 2014/Nov 2014)

Presence of AMF Nets		Condition of AMF nets		Usage of the nets		Miscellaneous data		Comments		Activity		Errors							
Job ID	Job	Date	Households			Forms Signed		Nets received		Hung		Present Not Hung		Missing		Worn out/ not usable		M+ WO	Last entry on
			Target	#	%	#	%	#	#	%	#	%	#	%	#	%			
		10 Dec 2014	9,500	9,500	100	9,496	100	20,688	10,667	52	630	3	584	3	8,807	43	45		
1	769 DP184 Malawi, Mphepozainai	18 Nov 2014	325	325	100	325	100	684	400	58	16	2	17	2	251	37	39	16 Dec 2014	10:43
2	761 DP184 Malawi, Kasinje	12 Nov 2014	550	550	100	550	100	1,303	697	53	43	3	33	3	530	41	43	16 Dec 2014	10:20
3	756 DP184 Malawi, Bwanje	13 Nov 2014	400	400	100	400	100	941	509	54	31	3	28	3	373	40	43	16 Dec 2014	10:09
4	748 DP184 Malawi, Katsakera	22 Oct 2014	250	250	100	249	100	543	261	48	27	5	23	4	232	43	47	16 Dec 2014	09:47
5	770 DP184 Malawi, Muluma	18 Nov 2014	125	125	100	125	100	264	174	66	1	0	6	2	83	31	34	16 Dec 2014	09:37
6	749 DP184 Malawi, Matanda	06 Nov 2014	150	150	100	148	99	291	196	67	10	3	14	5	71	24	29	16 Dec 2014	09:29
7	760 DP184 Malawi, Ganya	29 Nov 2014	250	250	100	250	100	524	305	58	11	2	12	2	196	37	40	16 Dec 2014	09:18
8	767 DP184 Malawi, Manjawira	10 Nov 2014	200	200	100	199	100	478	120	25	3	1	10	2	345	72	74	06 Dec 2014	10:42
9	775 DP184 Malawi, Kapeni	01 Nov 2014	250	250	100	250	100	557	236	42	16	3	21	4	284	51	55	06 Dec 2014	10:36
10	751 DP184 Malawi, Billia	14 Nov 2014	300	300	100	300	100	662	347	52	34	5	7	1	274	41	42	06 Dec 2014	10:23
11	763 DP184 Malawi, Lizulu	10 Dec 2014	250	250	100	250	100	593	439	74	13	2	11	2	130	22	24	06 Dec 2014	09:29
12	755 DP184 Malawi, Lakeview	25 Nov 2014	200	200	100	200	100	446	253	57	2	0	11	2	180	40	43	04 Dec 2014	05:09
13	754 DP184 Malawi, Mlangeni	26 Nov 2014	225	225	100	225	100	473	268	57	12	3	15	3	178	38	41	04 Dec 2014	04:58
14	776 DP184 Malawi, Ntonda	03 Nov 2014	250	250	100	250	100	545	244	45	29	5	24	4	248	46	50	03 Dec 2014	17:05
15	750 DP184 Malawi, Tsangano	20 Oct 2014	375	375	100	375	100	754	457	61	31	4	38	5	228	30	35	03 Dec 2014	16:51
16	768 DP184 Malawi, Senzani	05 Nov 2014	250	250	100	250	100	536	215	40	11	2	10	2	300	56	58	03 Dec 2014	04:36
17	764 DP184 Malawi, Mlanda	24 Nov 2014	250	250	100	250	100	611	353	58	11	2	19	3	228	37	40	03 Dec 2014	04:14
18	753 DP184 Malawi, Biriwiri	28 Nov 2014	250	250	100	250	100	549	428	78	8	1	7	1	106	19	21	03 Dec 2014	03:58
19	783 DP184 Malawi, Chirole	30 Oct 2014	125	125	100	125	100	293	144	49	12	4	10	3	127	43	47	02 Dec 2014	04:59
20	747 DP184 Malawi, Doviko	21 Oct 2014	125	125	100	125	100	215	95	44	22	10	9	4	89	41	46	02 Dec 2014	01:43
21	765 DP184 Malawi, Masasa	29 Nov 2014	150	150	100	150	100	340	157	46	3	1	11	3	169	50	53	01 Dec 2014	05:18
22	757 DP184 Malawi, Sharpevalley	13 Nov 2014	250	250	100	250	100	613	283	46	18	3	9	1	303	49	51	30 Nov 2014	10:31
23	774 DP184 Malawi, Namisu	31 Oct 2014	250	250	100	250	100	512	193	38	6	1	14	3	299	58	61	26 Nov 2014	15:13
24	771 DP184 Malawi, Gowa	21 Nov 2014	250	250	100	250	100	639	252	39	16	3	25	4	346	54	58	25 Nov 2014	20:19
25	759 DP184 Malawi, Kandeu	17 Nov 2014	250	250	100	250	100	524	336	64	23	4	19	4	146	28	31	25 Nov 2014	11:29
26	766 DP184 Malawi, Chigodi	17 Nov 2014	250	250	100	250	100	464	251	54	4	1	13	3	196	42	45	24 Nov 2014	00:02
27	780 DP184 Malawi, Nsiyaludzu	09 Nov 2014	400	400	100	400	100	877	399	45	30	3	20	2	428	49	51	22 Nov 2014	15:40
28	758 DP184 Malawi, Kampanje	19 Nov 2014	250	250	100	250	100	425	244	57	1	0	3	1	177	42	42	22 Nov 2014	15:24
29	781 DP184 Malawi, Mikoke	07 Nov 2014	250	250	100	250	100	528	219	41	9	2	6	1	294	56	57	14 Nov 2014	03:46
30	752 DP184 Malawi, Chikande	11 Nov 2014	250	250	100	250	100	489	192	39	10	2	13	3	274	56	59	14 Nov 2014	03:42
31	779 DP184 Malawi, Champiti	31 Oct 2014	250	250	100	250	100	522	259	50	18	3	17	3	228	44	47	13 Nov 2014	07:25
32	762 DP184 Malawi, Phanga	12 Nov 2014	125	125	100	125	100	281	147	52	0	0	0	0	134	48	48	13 Nov 2014	05:45
33	777 DP184 Malawi, Nsipe	30 Oct 2014	250	250	100	250	100	562	219	39	18	3	24	4	301	54	58	11 Nov 2014	04:06
34	782 DP184 Malawi, Ntcheu	26 Oct 2014	500	500	100	500	100	1,124	651	58	50	4	38	3	385	34	38	11 Nov 2014	04:01
35	773 DP184 Malawi, Dzonzi	24 Oct 2014	100	100	100	100	100	201	72	36	13	6	14	7	102	51	58	04 Nov 2014	06:09
36	772 DP184 Malawi, Mzama	15 Nov 2014	250	250	100	250	100	529	294	56	21	4	9	2	205	39	40	04 Nov 2014	06:01
37	778 DP184 Malawi, Dzunje	28 Nov 2014	375	375	100	375	100	796	358	45	47	6	24	3	367	46	49	04 Nov 2014	05:53

<http://www.AgainstMalaria.com/Distributions/Malawi/Ntcheu>

**PDS Job Summary**

DistributionID: DP184 [change distribution](#) Report Stage: 33 months

**Post-Distribution Check-Up (PDCU) for Ntcheu, Malawi: @ 33-months (Oct 2014/Nov 2014)**

Presence of AMF Nets											Condition of AMF nets											Usage of the nets											Miscellaneous data											Comments											Activity											Errors										
Job ID	Job	AMF Nets										AMF Olyset nets										AMF Peranet nets																																																						
		Total	#	%	#	%	#	%	#	%	Rating	Total	#	%	#	%	#	%	#	%	Rating	Total	#	%	#	%	#	%	Rating																																															
		19,472	2,578	13	4,455	23	3,632	19	8,807	45	59	11,015	1,307	12	2,590	24	2,136	19	4,982	45	59	8,452	1,271	15	1,863	22	1,495	18	3,823	45	59																																													
1	769 DP184 Malawi, Mpehpozina	651	175	27	106	16	119	18	251	39	68	67	13	19	14	21	14	21	26	39	66	584	162	28	92	16	105	18	225	39	68																																													
2	761 DP184 Malawi, Kasinjje	1227	202	16	235	19	260	21	530	43	60	503	39	8	82	16	165	33	217	43	58	724	163	23	153	21	95	13	313	43	63																																													
3	756 DP184 Malawi, Bwanje	882	106	12	200	23	203	23	373	42	60	388	62	16	81	21	81	21	164	42	61	494	44	9	119	24	122	25	209	42	60																																													
4	748 DP184 Malawi, Katsakera	493	45	9	123	25	93	19	232	47	57	493	45	9	123	25	93	19	232	47	57	0	0	0	0	0	0	0	0	0	0																																													
5	770 DP184 Malawi, Muluma	257	56	22	55	21	63	25	83	32	71	50	3	6	15	30	16	32	16	32	68	207	53	26	40	19	47	23	67	32	71																																													
6	749 DP184 Malawi, Matanda	267	26	10	77	29	93	35	71	27	72	267	26	10	77	29	93	35	71	27	72	0	0	0	0	0	0	0	0	0	0																																													
7	760 DP184 Malawi, Ganya	501	110	22	125	25	70	14	196	39	67	23	4	17	4	17	6	26	9	39	64	478	106	22	121	25	64	13	187	39	67																																													
8	767 DP184 Malawi, Manjawira	465	29	6	41	9	50	11	345	74	22	453	26	6	41	9	50	11	336	74	22	12	3	25	0	0	0	0	9	75	30																																													
9	775 DP184 Malawi, Kapeni	520	52	10	94	18	90	17	284	55	53	518	52	10	94	18	89	17	283	55	53	2	0	0	0	0	1	50	1	50	52																																													
10	751 DP184 Malawi, Billa	620	85	14	127	20	134	22	274	44	59	620	85	14	127	22	114	20	251	44	59	52	5	10	4	8	20	38	23	44	57																																													
11	763 DP184 Malawi, Lizulu	569	91	16	221	39	127	22	130	23	75	568	80	14	123	22	114	20	251	44	59	568	91	16	221	39	126	22	130	23	75																																													
12	755 DP184 Malawi, Lakeview	433	66	15	101	23	86	20	180	42	62	0	0	0	0	0	0	0	0	0	0	433	66	15	101	23	86	20	180	42	62																																													
13	754 DP184 Malawi, Mlangeni	446	49	11	102	23	117	26	178	40	62	0	0	0	0	0	0	0	0	0	0	446	49	11	102	23	117	26	178	40	62																																													
14	776 DP184 Malawi, Ntonda	492	39	8	136	28	69	14	248	50	56	492	39	8	136	28	69	14	248	50	56	0	0	0	0	0	0	0	0	0	0																																													
15	750 DP184 Malawi, Tsangano	685	120	18	192	28	145	21	228	33	71	684	119	17	192	28	145	21	228	33	71	1	1	100	0	0	0	0	0	0	100																																													
16	768 DP184 Malawi, Senzani	515	35	7	94	18	86	17	300	58	51	515	35	7	94	18	86	17	300	58	51	0	0	0	0	0	0	0	0	0	0																																													
17	764 DP184 Malawi, Mlanda	581	108	19	140	24	105	18	228	39	65	0	0	0	0	0	0	0	0	0	0	581	108	19	140	24	105	18	228	39	65																																													
18	753 DP184 Malawi, Biriwiri	534	97	18	200	37	131	25	106	20	77	65	1	2	22	34	29	45	13	20	73	469	96	20	178	38	102	22	93	20	77																																													
19	783 DP184 Malawi, Chiole	271	51	19	47	17	46	17	127	47	59	271	51	19	47	17	46	17	127	47	59	0	0	0	0	0	0	0	0	0	0																																													
20	747 DP184 Malawi, Doviko	184	9	5	62	34	24	13	89	48	57	180	9	5	60	33	24	13	87	48	57	4	0	0	2	50	0	0	2	50	57																																													
21	765 DP184 Malawi, Masasa	326	18	6	73	22	66	20	169	52	54	6	0	0	1	17	2	33	3	50	53	320	18	6	72	22	64	20	166	52	54																																													
22	757 DP184 Malawi, Sharpevalley	586	64	11	94	16	125	21	303	52	55	112	2	2	28	25	24	21	58	52	54	474	62	13	66	14	101	21	245	52	55																																													
23	774 DP184 Malawi, Namisu	492	38	8	75	15	80	16	299	61	50	492	38	8	75	15	80	16	299	61	50	0	0	0	0	0	0	0	0	0	0																																													
24	771 DP184 Malawi, Gowa	598	57	10	99	17	96	16	346	58	52	0	0	0	0	0	0	0	0	0	0	598	57	10	99	17	96	16	346	58	52																																													
25	759 DP184 Malawi, Kandeu	482	87	18	137	28	112	23	146	30	72	65	9	14	17	26	19	29	20	31	71	413	78	19	118	29	92	22	125	30	72																																													
26	766 DP184 Malawi, Chigodi	447	77	17	94	21	80	18	196	44	60	4	1	25	0	1	25	2	50	57	443	76	17	94	21	79	18	194	44	60																																														
27	780 DP184 Malawi, Nsiyaludzu	827	57	7	204	25	138	17	428	52	55	823	57	7	202	25	138	17	426	52	55	4	0	0	2	50	0	0	2	50	57																																													
28	758 DP184 Malawi, Kampanje	421	33	8	138	33	73	17	177	42	61	0	0	0	0	0	0	0	0	0	0	421	33	8	138	33	73	17	177	42	61																																													
29	781 DP184 Malawi, Mikoke	512	23	4	121	24	74	14	294	57	52	512	23	4	121	24	74	14	294	57	52	0	0	0	0	0	0	0	0	0	0																																													
30	752 DP184 Malawi, Chikande	466	34	7	70	15	88	19	274	59	51	466	34	7	70	15	88	19	274	59	51	0	0	0	0	0	0	0	0	0	0																																													
31	779 DP184 Malawi, Champiti	487	67	14	110	23	82	17	228	47	58	487	67	14	110	23	82	17	228	47	58	0	0	0	0	0	0	0	0	0	0																																													
32	762 DP184 Malawi, Phanga	281	48	17	37	13	62	22	134	48	57	281	48	17	37	13	62	22	134	48	57	0	0	0	0	0	0	0	0	0	0																																													
33	777 DP184 Malawi, Nsipe	520	51	10	86	17	82	16	301	58	52	520	51	10	86	17	82	16	301	58	52	0	0	0	0	0	0	0	0	0	0																																													
34	782 DP184 Malawi, Ntcheu	1036	178	17	303	29	170	16	385	37	68	1,036	178	17	303	29	170	16	385	37	68	0	0	0	0	0	0	0	0	0	0																																													
35	773 DP184 Malawi, Dzonzi	174	18	10	31	18	23	13	102	59	52	174	18	10	31	18	23	13	102	59	52	0	0	0	0	0	0	0	0	0	0																																													
36	772 DP184 Malawi, Mzama	499	73	15	155	31	66	13	205	41	64	497	73	15	154	31	66	13	204	41	64	2	0	0	1	50	0	0	1	50	52																																													
37	778 DP184 Malawi, Dzunje	725	104	14	150	21	104	14	367	51	56	725	104	14	150	21	104	14	367	51	56	0	0	0	0	0	0	0	0	0	0																																													

**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.

**PDS Job Summary**

DistributionID: DP184 [change distribution](#) Report Stage: 33 months

**Post-Distribution Check-Up (PDCU) for Ntcheu, Malawi: @ 33-months (Oct 2014/Nov 2014)**

Presence of AMF Nets		Condition of AMF nets		Usage of the nets		Miscellaneous data		Comments		Activity		Errors												
Job ID	Job	Nets Used		Household used				People sleeping under nets						Coverage										
		Correctly	Not Correctly	Correctly	Not Correctly	Children under 5	Children	Pregnant	Adults	Total	Sleeping spaces		People											
		#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	
		11,498	98	261	2	7,692	81	1,808	19	5,125	21	7,852	31	428	2	11,578	46	24,983	22,444	11,759	52	45,012	24,983	56
1	769 DP184 Malawi, Mphepozinal	425	97	14	3	286	88	39	12	170	19	294	34	13	1	400	46	877	830	439	53	1,547	877	57
2	761 DP184 Malawi, Kasinje	730	100	2	0	478	87	72	13	324	21	495	32	22	1	727	46	1,568	1,327	732	55	2,709	1,568	58
3	756 DP184 Malawi, Bwanje	538	99	3	1	359	90	41	10	258	23	346	30	27	2	509	45	1,140	977	541	55	2,006	1,140	57
4	748 DP184 Malawi, Katsakera	256	94	17	6	184	74	66	26	136	22	177	29	12	2	285	47	610	538	273	51	1,145	610	53
5	770 DP184 Malawi, Muluma	186	100	0	0	109	87	16	13	71	19	128	35	7	2	165	44	371	306	186	61	586	371	63
6	749 DP184 Malawi, Matanda	231	99	3	1	126	84	24	16	138	25	168	30	9	2	243	44	558	302	234	77	708	558	79
7	760 DP184 Malawi, Ganya	319	99	4	1	233	93	17	7	104	15	258	38	3	0	323	47	688	624	323	52	1,234	688	56
8	767 DP184 Malawi, Manjawira	136	88	19	12	108	54	92	46	89	26	83	25	10	3	155	46	337	541	155	29	950	337	35
9	775 DP184 Malawi, Kapeni	256	92	23	8	149	60	101	40	117	20	189	33	12	2	253	44	571	603	279	46	1,192	571	48
10	751 DP184 Malawi, Billa	345	98	8	2	277	92	23	8	142	19	268	36	16	2	321	43	747	733	353	48	1,527	747	49
11	763 DP184 Malawi, Lizulu	459	99	3	1	236	94	14	6	125	15	324	38	10	1	398	46	857	637	462	73	1,158	857	74
12	755 DP184 Malawi, Lakeview	264	99	2	1	166	83	34	17	85	17	181	35	7	1	237	46	510	498	266	53	900	510	57
13	754 DP184 Malawi, Mlangeni	284	99	2	1	197	88	28	12	94	17	198	35	2	0	274	48	568	518	286	55	1,005	568	57
14	776 DP184 Malawi, Ntonda	280	99	3	1	182	73	68	27	130	21	191	31	17	3	275	45	613	546	283	52	1,061	613	58
15	750 DP184 Malawi, Tsangano	478	94	30	6	288	77	87	23	266	22	374	31	31	3	526	44	1,197	814	508	62	1,847	1,197	65
16	768 DP184 Malawi, Senzani	252	99	2	1	171	68	79	32	117	22	167	31	6	1	253	47	543	605	254	42	1,187	543	46
17	764 DP184 Malawi, Mlanda	361	98	6	2	218	87	32	13	102	14	261	37	5	1	344	48	712	644	367	57	1,154	712	62
18	753 DP184 Malawi, Biriwiri	430	100	1	0	237	95	13	5	117	14	318	39	6	1	379	46	820	595	431	72	1,116	820	73
19	783 DP184 Malawi, Chiole	153	99	2	1	101	81	24	19	76	23	86	26	8	2	162	49	332	280	155	55	558	332	59
20	747 DP184 Malawi, Doviko	109	89	14	11	101	81	24	19	55	20	74	26	6	2	147	52	282	273	123	45	585	282	48
21	765 DP184 Malawi, Masasa	176	99	1	1	128	85	22	15	115	29	97	25	13	3	169	43	394	391	177	45	814	394	48
22	757 DP184 Malawi, Sharpevalley	301	98	5	2	227	91	23	9	164	24	183	27	12	2	320	47	679	628	306	49	1,273	679	53
23	774 DP184 Malawi, Namisu	222	100	1	0	168	67	82	33	121	23	161	31	11	2	227	44	520	562	223	40	1,206	520	43
24	771 DP184 Malawi, Gowa	291	98	6	2	216	86	34	14	139	23	173	29	16	3	277	46	605	669	297	44	1,268	605	48
25	759 DP184 Malawi, Kande	361	99	5	1	215	86	35	14	178	22	269	33	13	2	354	43	814	591	366	62	1,257	814	65
26	766 DP184 Malawi, Chigodi	267	98	6	2	232	93	18	7	112	18	177	29	11	2	312	51	612	561	273	49	1,194	612	51
27	780 DP184 Malawi, Nsiyaludzu	427	99	3	1	296	74	104	26	206	23	269	30	22	2	397	44	894	931	430	46	1,870	894	48
28	758 DP184 Malawi, Kampanje	261	100	0	0	240	96	10	4	118	20	140	24	2	0	327	56	587	581	261	45	1,181	587	50
29	781 DP184 Malawi, Mikoke	246	100	0	0	176	70	74	30	112	21	160	30	10	2	251	47	533	599	246	41	1,175	533	45
30	752 DP184 Malawi, Chikande	210	89	25	11	148	59	102	41	120	22	165	31	11	2	244	45	540	581	235	40	1,283	540	42
31	779 DP184 Malawi, Champiti	281	96	11	4	206	82	44	18	137	22	167	27	9	1	310	50	623	528	292	55	1,061	623	59
32	762 DP184 Malawi, Phanga	151	100	0	0	89	71	36	29	55	17	128	39	14	4	129	40	326	314	151	48	638	326	51
33	777 DP184 Malawi, Nsipe	256	94	16	6	181	72	69	28	134	22	159	27	9	2	295	49	597	597	272	46	1,151	597	52
34	782 DP184 Malawi, Ntcheu	731	100	3	0	445	89	55	11	322	21	492	31	26	2	724	46	1,564	1,143	734	64	2,299	1,564	68
35	773 DP184 Malawi, Dzonzi	68	86	11	14	45	45	55	55	33	19	54	32	2	1	82	48	171	225	79	35	473	171	36
36	772 DP184 Malawi, Mzama	342	99	5	1	206	82	44	18	165	22	213	28	9	1	363	48	750	520	347	67	1,062	750	71
37	778 DP184 Malawi, Dzunje	415	99	5	1	268	71	107	29	178	20	265	30	9	1	421	48	873	832	420	50	1,632	873	53

Used correctly 0% > 90% > 95+%

Coverage 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.



## PDS Job Summary

DistributionID: DP184 [change distribution](#) Report Stage: 33 months ▾

### Post-Distribution Check-Up (PDCU) for Ntcheu, Malawi: @ 33-months (Oct 2014/Nov 2014)

[Presence of AMF Nets](#) [Condition of AMF nets](#) [Usage of the nets](#) [Miscellaneous data](#) [Comments](#) [Activity](#) [Errors](#)

Job ID	Job	Malaria in last month				Type of AMF nets			Type of all nets		
		Households		People		Oly	Perm	?	Oly	Perm	?
		#	%	#	%	#	#	#	#	#	#
		<b>2598</b>	<b>27</b>	<b>4,077</b>	<b>9</b>	<b>6,033</b>	<b>4,629</b>	<b>3</b>	<b>6,213</b>	<b>4,902</b>	<b>644</b>
1	751 DP184 Malawi, Billia	81	27	122	8	568	52	0	568	52	0
2	753 DP184 Malawi, Biriviri	55	22	69	6	65	469	0	65	469	0
3	756 DP184 Malawi, Bwanje	112	28	204	10	388	494	0	388	494	0
4	779 DP184 Malawi, Champiti	70	28	108	10	487	0	0	487	0	0
5	766 DP184 Malawi, Chigodi	84	34	136	11	4	443	0	4	443	0
6	752 DP184 Malawi, Chikande	71	28	111	9	466	0	0	466	0	0
7	783 DP184 Malawi, Chirole	44	35	79	14	271	0	0	271	0	0
8	747 DP184 Malawi, Doviko	22	18	25	4	180	4	0	180	4	0
9	773 DP184 Malawi, Dzonzi	4	4	4	1	174	0	0	174	0	0
10	778 DP184 Malawi, Dzunje	104	28	143	9	725	0	0	725	0	0
11	760 DP184 Malawi, Ganya	66	26	79	6	23	478	0	23	478	0
12	771 DP184 Malawi, Gowa	77	31	124	10	0	598	0	0	598	0
13	758 DP184 Malawi, Kampanje	84	34	102	9	0	421	0	0	421	0
14	759 DP184 Malawi, Kandeu	74	30	128	10	65	413	3	65	413	3
15	775 DP184 Malawi, Kapeni	68	27	108	9	518	2	0	518	2	0
16	761 DP184 Malawi, Kasinje	152	28	254	9	503	724	0	503	724	0
17	748 DP184 Malawi, Katsakera	51	20	84	7	493	0	0	493	0	0
18	755 DP184 Malawi, Lakeview	42	21	58	6	0	433	0	0	433	0
19	763 DP184 Malawi, Lizulu	51	20	77	7	1	568	0	1	568	0
20	767 DP184 Malawi, Manjawira	78	39	127	13	453	12	0	453	12	0
21	765 DP184 Malawi, Masasa	64	43	132	16	6	320	0	6	320	0
22	749 DP184 Malawi, Matanda	38	25	63	9	267	0	0	267	0	0
23	781 DP184 Malawi, Mikoke	72	29	115	10	512	0	0	512	0	0
24	764 DP184 Malawi, Mlanda	57	23	79	7	0	581	0	0	581	0
25	754 DP184 Malawi, Mlangeni	49	22	70	7	0	446	0	0	446	0
26	769 DP184 Malawi, Mphepozinai	72	22	120	8	67	584	0	67	584	0
27	770 DP184 Malawi, Muluma	48	38	85	15	50	207	0	50	207	0
28	772 DP184 Malawi, Mzama	62	25	99	9	497	2	0	497	2	0
29	774 DP184 Malawi, Namisu	57	23	105	9	492	0	0	492	0	0
30	777 DP184 Malawi, Nsipe	88	35	125	11	520	0	0	520	0	0
31	780 DP184 Malawi, Nsiyaludzu	138	35	215	11	823	4	0	823	4	0
32	782 DP184 Malawi, Ntcheu	138	28	200	9	1,036	0	0	1,036	0	0
33	776 DP184 Malawi, Ntonda	75	30	117	11	492	0	0	492	0	0
34	762 DP184 Malawi, Phanga	48	38	83	13	281	0	0	281	0	0
35	768 DP184 Malawi, Senzani	49	20	86	7	515	0	0	515	0	0
36	757 DP184 Malawi, Sharpevalley	50	20	93	7	112	474	0	112	474	0
37	750 DP184 Malawi, Tsangano	103	27	148	8	684	1	0	684	1	0