



February 5, 2014

To: Jon Eric Tongren, USAID Rwanda

Hello Eric,

Below is a table showing the results of the analysis of 40 of the NetProtects you provided to us. The target deltamethrin (DM) concentration for new nets is 1.35-2.25 g/kg. Only one of your baseline nets fell within this range (KHI03). Many of the nets recovered from the field were found to contain higher doses, but the variation in net color indicates that many were from different manufacturing batches than your baseline nets. This could account for the low baseline doses.

The median DM concentrations for nets used for 0, 5, and 9 months are 1.23, 1.77, and 1.41 g/kg, respectively.

I hope you find this helpful.

RWANDA NETS

LAB ID	PROJECT ID	TIME IN FIELD (months)	in mg/m ²				in g/kg				R/DM	
			Deltamethrin		R-isomer		Deltamethrin		R-isomer		Mean	S.D.
			Mean	S.D.	Mean	S.D.	Mean	S.D.	Mean	S.D.		
RW0NE1	KHI01	0	45.6	0.07	16.7	0.16	1.116	0.0017	0.408	0.0040	0.376	0.0022
RW0NE2	KHI02	0	43.7	0.07	18.4	0.09	1.137	0.0019	0.479	0.0023	0.432	0.0014
RW0NE3	KHI03	0	62.2	0.19	21.4	0.13	1.503	0.0046	0.518	0.0032	0.353	0.0019
RW0NE4	KHI04	0	54.5	0.04	19.5	0.10	1.231	0.0008	0.441	0.0022	0.368	0.0010
RW0NE5	KHI05	0	52.4	0.10	19.7	0.05	1.278	0.0023	0.480	0.0011	0.385	0.0008
RW5NE1	RUH05	5	59.9	0.07	13.0	0.16	1.491	0.0018	0.324	0.0039	0.228	0.0016
RW5NE2	RUH10	5	87.1	0.07	16.4	0.15	1.698	0.0013	0.320	0.0028	0.196	0.0010
RW5NE3	RUH17	5	70.1	0.12	14.2	0.17	1.768	0.0031	0.358	0.0042	0.212	0.0018
RW5NE4	RUH19	5	73.8	0.15	12.2	0.19	1.871	0.0037	0.310	0.0049	0.175	0.0017
RW5NE5	RUH20	5	77.5	0.03	15.3	0.11	2.009	0.0008	0.397	0.0030	0.206	0.0011
RW9NE1	KIR05	9	62.5	0.21	15.8	0.43	1.555	0.0053	0.394	0.0107	0.263	0.0049
RW9NE2	KIR07	9	51.9	0.14	16.0	0.14	1.234	0.0033	0.381	0.0034	0.319	0.0033
RW9NE3	KIR12	9	74.3	0.17	13.5	0.22	1.577	0.0037	0.287	0.0047	0.191	0.0015
RW9NE4	KIR08	9	59.1	0.12	18.4	0.12	1.336	0.0027	0.417	0.0027	0.322	0.0022
RW9NE5	KIR03	9	62.1	0.10	13.9	0.12	1.429	0.0023	0.319	0.0027	0.233	0.0006
RW9NE6	KRG19	9	70.1	0.17	17.1	0.17	1.508	0.0036	0.367	0.0036	0.252	0.0018
RW9NE7	KRG03	9	56.5	0.12	13.1	0.10	1.502	0.0031	0.349	0.0027	0.243	0.0008

RW9NE8	KRG15	9	67.9	0.09	15.1	0.17	1.549	0.0021	0.343	0.0038	0.231	0.0017
RW9NE9	KRG07	9	74.1	0.09	16.0	0.19	1.808	0.0021	0.391	0.0047	0.225	0.0018
RW9NE10	KRG09	9	66.7	0.03	16.8	0.14	1.586	0.0008	0.399	0.0034	0.260	0.0019
RW9NE11	BUG04	9	68.9	0.08	12.0	0.11	1.685	0.0021	0.293	0.0026	0.183	0.0006
RW9NE12	BUG08	9	45.5	0.05	19.2	0.14	1.114	0.0012	0.469	0.0034	0.431	0.0030
RW9NE13	BUG12	9	76.5	0.15	8.1	0.17	1.639	0.0031	0.174	0.0037	0.115	0.0009
RW9NE14	BUG14	9	73.5	0.08	10.9	0.16	1.825	0.0019	0.270	0.0040	0.157	0.0009
RW9NE15	BUG18	9	70.1	0.12	11.1	0.06	1.560	0.0027	0.247	0.0013	0.168	0.0007
RW9NE16	GIS05	9	53.2	0.15	9.7	0.15	1.318	0.0038	0.240	0.0038	0.194	0.0015
RW9NE17	GIS10	9	53.6	0.27	11.4	0.23	1.369	0.0069	0.293	0.0059	0.225	0.0040
RW9NE18	GIS12	9	69.5	0.24	13.7	0.08	1.399	0.0048	0.275	0.0017	0.206	0.0012
RW9NE19	GIS22	9	70.3	0.00	18.3	0.00	1.597	0.0000	0.416	0.0000	0.269	0.0000
RW9NE20	GIS23	9	60.5	0.20	13.9	0.16	1.506	0.0050	0.346	0.0039	0.240	0.0017
RW9NE21	HY09	9	59.5	0.11	22.6	0.11	0.943	0.0017	0.358	0.0017	0.388	0.0008
RW9NE22	HY10	9	59.5	0.08	13.5	0.09	1.175	0.0015	0.266	0.0017	0.237	0.0019
RW9NE23	HY15	9	52.6	0.10	8.3	0.14	1.162	0.0021	0.182	0.0032	0.169	0.0017
RW9NE24	HY17	9	64.5	0.11	12.0	0.08	1.527	0.0026	0.285	0.0019	0.196	0.0012
RW9NE25	HY19	9	47.4	0.07	10.9	0.13	1.228	0.0017	0.284	0.0035	0.244	0.0019
RW9NE26	GATS01	9	54.1	0.06	20.6	0.04	1.201	0.0013	0.457	0.0010	0.390	0.0007
RW9NE27	GATS12	9	48.2	0.04	19.5	0.09	1.113	0.0008	0.450	0.0021	0.414	0.0012
RW9NE28	GATS10	9	38.8	0.10	18.7	0.07	0.781	0.0020	0.377	0.0013	0.493	0.0006
RW9NE29	GATS16	9	49.8	0.08	18.0	0.14	1.153	0.0019	0.417	0.0033	0.372	0.0015
RW9NE30	GATS18	9	40.6	0.09	14.2	0.15	0.978	0.0021	0.342	0.0035	0.362	0.0026

Months	N	Median	Mean	S.D.
0	5	1.231	1.253	0.155
5	5	1.768	1.767	0.194
9	30	1.414	1.379	0.257

Best regards,



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