

Additional file 1: Table S1. Statistical analysis to test for significant differences of sand fly mortality between the studied populations to tested insecticides using the Wilcoxon signed-rank test.

Statistical analysis-Bioassays

For DDT insecticide

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DATASET ACTIVATE DataSet0.
DATASET CLOSE DataSet1.
NPAR TESTS
  /WILCOXON=Mortality_Pannala Mortality_Pannala Mortality_Pannala Mortality_Thalawa
Mortality_Thalawa Mortality_Mirigama WITH Mortality_Thalawa Mortality_Mirigama
Mortality_Mamadala Mortality_Mirigama Mortality_Mamadala Mortality_Mamadala (PAIRED)
  /STATISTICS DESCRIPTIVES
  /MISSING ANALYSIS.
```

NPar Tests

Descriptive Statistics					
	N	Mean	Std. Deviation	Minimum	Maximum
Mortality_Pannala	8	86.2500	35.02550	.00	100.00
Mortality_Thalawa	8	85.0000	35.05098	.00	100.00
Mortality_Mirigama	8	86.5000	35.06321	.00	100.00
Mortality_Mamadala	8	80.0000	35.15273	.00	100.00

Wilcoxon Signed Ranks Test

		Ranks		
		N	Mean Rank	Sum of Ranks
Mortality_Thalawa - Mortality_Pannala	Negative Ranks	1 ^a	1.00	1.00
	Positive Ranks	0 ^b	.00	.00
	Ties	7 ^c		
	Total	8		
Mortality_Mirigama - Mortality_Pannala	Negative Ranks	0 ^d	.00	.00
	Positive Ranks	1 ^e	1.00	1.00
	Ties	7 ^f		
	Total	8		
Mortality_Mamadala - Mortality_Pannala	Negative Ranks	2 ^g	1.50	3.00
	Positive Ranks	0 ^h	.00	.00
	Ties	6 ⁱ		

Mortality_Mirigama - Mortality_Thalawa	Total	8		
	Negative Ranks	0 ^j	.00	.00
	Positive Ranks	1 ^k	1.00	1.00
	Ties	7 ^l		
Mortality_Mamadala - Mortality_Thalawa	Total	8		
	Negative Ranks	2 ^m	1.50	3.00
	Positive Ranks	0 ⁿ	.00	.00
	Ties	6 ^o		
Mortality_Mamadala - Mortality_Mirigama	Total	8		
	Negative Ranks	2 ^p	1.50	3.00
	Positive Ranks	0 ^q	.00	.00
	Ties	6 ^r		
	Total	8		

- a. Mortality_Thalawa < Mortality_Pannala
- b. Mortality_Thalawa > Mortality_Pannala
- c. Mortality_Thalawa = Mortality_Pannala
- d. Mortality_Mirigama < Mortality_Pannala
- e. Mortality_Mirigama > Mortality_Pannala
- f. Mortality_Mirigama = Mortality_Pannala
- g. Mortality_Mamadala < Mortality_Pannala
- h. Mortality_Mamadala > Mortality_Pannala
- i. Mortality_Mamadala = Mortality_Pannala
- j. Mortality_Mirigama < Mortality_Thalawa
- k. Mortality_Mirigama > Mortality_Thalawa
- l. Mortality_Mirigama = Mortality_Thalawa
- m. Mortality_Mamadala < Mortality_Thalawa
- n. Mortality_Mamadala > Mortality_Thalawa
- o. Mortality_Mamadala = Mortality_Thalawa
- p. Mortality_Mamadala < Mortality_Mirigama
- q. Mortality_Mamadala > Mortality_Mirigama
- r. Mortality_Mamadala = Mortality_Mirigama

Test Statistics^a

	Mortality_Thalaw a - Mortality_Pannal a	Mortality_Miriga ma - Mortality_Pannal a	Mortality_Mamad ala - Mortality_Pannal a	Mortality_Miriga ma - Mortality_Thalaw a	Mortality_Mamad ala - Mortality_Thalaw a	Mortality_Mamad ala - Mortality_Miriga ma
Z	-1.000 ^b	-1.000 ^c	-1.414 ^b	-1.000 ^c	-1.342 ^b	-1.342 ^b
Asymp. Sig. (2-tailed)	.317	.317	.157	.317	.180	.180

- a. Wilcoxon Signed Ranks Test
- b. Based on positive ranks.
- c. Based on negative ranks.

Significant values were >0.05 (0.157-0.317) for DDT insecticide. Therefore, there is no significant difference among these four populations.

For malathion insecticide

```
NPARTESTS
/WILCOXON=Mortality_Mamadala Mortality_Mamadala Mortality_Mamadala Mortality_Thalawa
Mortality_Thalawa Mortality_Pannala WITH Mortality_Thalawa Mortality_Pannala
Mortality_Mirigama Mortality_Pannala Mortality_Mirigama Mortality_Mirigama (PAIRED)
/STATISTICS DESCRIPTIVES
/MISSING ANALYSIS.
```

NPar Tests

[DataSet0]

Descriptive Statistics					
	N	Mean	Std. Deviation	Minimum	Maximum
Mortality_Mamadala	8	80.0000	35.25013	.00	100.00
Mortality_Thalawa	8	84.7500	35.09884	.00	100.00
Mortality_Pannala	8	86.0000	35.00204	.00	100.00
Mortality_Mirigama	8	86.2500	35.02550	.00	100.00

Wilcoxon Signed Ranks Test

		Ranks		
		N	Mean Rank	Sum of Ranks
Mortality_Thalawa - Mortality_Mamadala	Negative Ranks	0 ^a	.00	.00
	Positive Ranks	2 ^b	1.50	3.00
	Ties	6 ^c		
	Total	8		
Mortality_Pannala - Mortality_Mamadala	Negative Ranks	0 ^d	.00	.00
	Positive Ranks	2 ^e	1.50	3.00
	Ties	6 ^f		
	Total	8		
Mortality_Mirigama - Mortality_Mamadala	Negative Ranks	0 ^g	.00	.00
	Positive Ranks	2 ^h	1.50	3.00
	Ties	6 ⁱ		
	Total	8		
Mortality_Pannala - Mortality_Thalawa	Negative Ranks	0 ^j	.00	.00
	Positive Ranks	1 ^k	1.00	1.00
	Ties	7 ^l		
	Total	8		
Mortality_Mirigama - Mortality_Thalawa	Negative Ranks	0 ^m	.00	.00

Mortality_Mirigama - Mortality_Pannala	Positive Ranks	1 ⁿ	1.00	1.00
	Ties	7 ^o		
	Total	8		
	Negative Ranks	0 ^p	.00	.00
	Positive Ranks	1 ^q	1.00	1.00
	Ties	7 ^r		
	Total	8		

- a. Mortality_Thalawa < Mortality_Mamadala
- b. Mortality_Thalawa > Mortality_Mamadala
- c. Mortality_Thalawa = Mortality_Mamadala
- d. Mortality_Pannala < Mortality_Mamadala
- e. Mortality_Pannala > Mortality_Mamadala
- f. Mortality_Pannala = Mortality_Mamadala
- g. Mortality_Mirigama < Mortality_Mamadala
- h. Mortality_Mirigama > Mortality_Mamadala
- i. Mortality_Mirigama = Mortality_Mamadala
- j. Mortality_Pannala < Mortality_Thalawa
- k. Mortality_Pannala > Mortality_Thalawa
- l. Mortality_Pannala = Mortality_Thalawa
- m. Mortality_Mirigama < Mortality_Thalawa
- n. Mortality_Mirigama > Mortality_Thalawa
- o. Mortality_Mirigama = Mortality_Thalawa
- p. Mortality_Mirigama < Mortality_Pannala
- q. Mortality_Mirigama > Mortality_Pannala
- r. Mortality_Mirigama = Mortality_Pannala

Test Statistics^a

	Mortality_Thalaw a - Mortality_Mama dala	Mortality_Pannal a - Mortality_Mamad ala	Mortality_Miriga ma - Mortality_Mamad ala	Mortality_Pannal a - Mortality_Thalaw a	Mortality_Miriga ma - Mortality_Thalaw a	Mortality_Miriga ma - Mortality_Pannal a
Z	-1.342 ^b	-1.342 ^b	-1.342 ^b	-1.000 ^b	-1.000 ^b	-1.000 ^b
Asymp. Sig. (2-tailed)	.180	.180	.180	.317	.317	.317

- a. Wilcoxon Signed Ranks Test
- b. Based on negative ranks.

Significant values were >0.05 (0.180-0.317) for malathion insecticide. Therefore, there is no significant difference among these four populations.

For propoxur insecticide

```
NEW FILE.  
DATASET NAME DataSet1 WINDOW=FRONT.  
NPAR TESTS  
  /WILCOXON=Mortality_Mamadala Mortality_Mamadala Mortality_Mamadala Mortality_Thalawa  
Mortality_Thalawa Mortality_Pannala WITH Mortality_Thalawa Mortality_Pannala  
Mortality_Mirigama Mortality_Pannala Mortality_Mirigama Mortality_Mirigama (PAIRED)  
  /STATISTICS DESCRIPTIVES  
  /MISSING ANALYSIS.
```

NPar Tests

[DataSet1]

Descriptive Statistics					
	N	Mean	Std. Deviation	Minimum	Maximum
Mortality_Mamadala	5	68.4000	40.99146	.00	100.00
Mortality_Thalawa	5	76.4000	43.41428	.00	100.00
Mortality_Pannala	5	78.0000	43.81780	.00	100.00
Mortality_Mirigama	5	78.4000	43.96362	.00	100.00

Wilcoxon Signed Ranks Test

Ranks				
		N	Mean Rank	Sum of Ranks
Mortality_Thalawa - Mortality_Mamadala	Negative Ranks	0 ^a	.00	.00
	Positive Ranks	2 ^b	1.50	3.00
	Ties	3 ^c		
	Total	5		
Mortality_Pannala - Mortality_Mamadala	Negative Ranks	0 ^d	.00	.00
	Positive Ranks	2 ^e	1.50	3.00
	Ties	3 ^f		
	Total	5		
Mortality_Mirigama - Mortality_Mamadala	Negative Ranks	0 ^g	.00	.00
	Positive Ranks	2 ^h	1.50	3.00
	Ties	3 ⁱ		
	Total	5		
Mortality_Pannala - Mortality_Thalawa	Negative Ranks	0 ^j	.00	.00
	Positive Ranks	1 ^k	1.00	1.00
	Ties	4 ^l		
	Total	5		
Mortality_Mirigama - Mortality_Thalawa	Negative Ranks	0 ^m	.00	.00
	Positive Ranks	1 ⁿ	1.00	1.00
	Ties	4 ^o		
	Total	5		
Mortality_Mirigama - Mortality_Pannala	Negative Ranks	0 ^p	.00	.00
	Positive Ranks	1 ^q	1.00	1.00
	Ties	4 ^r		
	Total	5		

a. Mortality_Thalawa < Mortality_Mamadala
b. Mortality_Thalawa > Mortality_Mamadala

- c. Mortality_Thalawa = Mortality_Mamadala
- d. Mortality_Pannala < Mortality_Mamadala
- e. Mortality_Pannala > Mortality_Mamadala
- f. Mortality_Pannala = Mortality_Mamadala
- g. Mortality_Mirigama < Mortality_Mamadala
- h. Mortality_Mirigama > Mortality_Mamadala
- i. Mortality_Mirigama = Mortality_Mamadala
- j. Mortality_Pannala < Mortality_Thalawa
- k. Mortality_Pannala > Mortality_Thalawa
- l. Mortality_Pannala = Mortality_Thalawa
- m. Mortality_Mirigama < Mortality_Thalawa
- n. Mortality_Mirigama > Mortality_Thalawa
- o. Mortality_Mirigama = Mortality_Thalawa
- p. Mortality_Mirigama < Mortality_Pannala
- q. Mortality_Mirigama > Mortality_Pannala
- r. Mortality_Mirigama = Mortality_Pannala

Test Statistics^a

	Mortality_Thalawa a - Mortality_Mamadala	Mortality_Pannala a - Mortality_Mamadala	Mortality_Mirigama ma - Mortality_Mamadala	Mortality_Pannala a - Mortality_Thalawa	Mortality_Mirigama ma - Mortality_Thalawa	Mortality_Mirigama ma - Mortality_Pannala
Z	-1.342 ^b	-1.342 ^b	-1.414 ^b	-1.000 ^b	-1.000 ^b	-1.000 ^b
Asymp. Sig. (2-tailed)	.180	.180	.157	.317	.317	.317

a. Wilcoxon Signed Ranks Test

b. Based on negative ranks.

Significant values were >0.05 (0.157-0.317) for propoxur insecticide. Therefore, there is no significant difference among these four populations.

For deltamethrin insecticide

```
NEW FILE.
DATASET NAME DataSet2 WINDOW=FRONT.
NPAR TESTS
  /WILCOXON=Mortality_Mamadala Mortality_Mamadala Mortality_Mamadala Mortality_Thalawa
Mortality_Thalawa Mortality_Pannala WITH Mortality_Thalawa Mortality_Pannala
Mortality_Mirigama Mortality_Pannala Mortality_Mirigama Mortality_Mirigama (PAIRED)
  /STATISTICS DESCRIPTIVES
  /MISSING ANALYSIS.
```

NPar Tests

[DataSet2]

Descriptive Statistics					
	N	Mean	Std. Deviation	Minimum	Maximum
Mortality_Mamadala	8	87.5000	35.35534	.00	100.00
Mortality_Thalawa	8	87.5000	35.35534	.00	100.00
Mortality_Pannala	8	87.5000	35.35534	.00	100.00
Mortality_Mirigama	8	91.2500	24.74874	30.00	100.00

Wilcoxon Signed Ranks Test

Ranks				
		N	Mean Rank	Sum of Ranks
Mortality_Thalawa - Mortality_Mamadala	Negative Ranks	0 ^a	.00	.00
	Positive Ranks	0 ^b	.00	.00
	Ties	8 ^c		
	Total	8		
Mortality_Pannala - Mortality_Mamadala	Negative Ranks	0 ^d	.00	.00
	Positive Ranks	0 ^e	.00	.00
	Ties	8 ^f		
	Total	8		
Mortality_Mirigama - Mortality_Mamadala	Negative Ranks	0 ^g	.00	.00
	Positive Ranks	1 ^h	1.00	1.00
	Ties	7 ⁱ		
	Total	8		
Mortality_Pannala - Mortality_Thalawa	Negative Ranks	0 ^j	.00	.00
	Positive Ranks	0 ^k	.00	.00
	Ties	8 ^l		
	Total	8		
Mortality_Mirigama - Mortality_Thalawa	Negative Ranks	0 ^m	.00	.00
	Positive Ranks	1 ⁿ	1.00	1.00
	Ties	7 ^o		
	Total	8		
Mortality_Mirigama - Mortality_Pannala	Negative Ranks	0 ^p	.00	.00
	Positive Ranks	1 ^q	1.00	1.00
	Ties	7 ^r		
	Total	8		

- a. Mortality_Thalawa < Mortality_Mamadala
- b. Mortality_Thalawa > Mortality_Mamadala
- c. Mortality_Thalawa = Mortality_Mamadala
- d. Mortality_Pannala < Mortality_Mamadala
- e. Mortality_Pannala > Mortality_Mamadala
- f. Mortality_Pannala = Mortality_Mamadala
- g. Mortality_Mirigama < Mortality_Mamadala
- h. Mortality_Mirigama > Mortality_Mamadala
- i. Mortality_Mirigama = Mortality_Mamadala
- j. Mortality_Pannala < Mortality_Thalawa
- k. Mortality_Pannala > Mortality_Thalawa
- l. Mortality_Pannala = Mortality_Thalawa
- m. Mortality_Mirigama < Mortality_Thalawa
- n. Mortality_Mirigama > Mortality_Thalawa
- o. Mortality_Mirigama = Mortality_Thalawa
- p. Mortality_Mirigama < Mortality_Pannala
- q. Mortality_Mirigama > Mortality_Pannala
- r. Mortality_Mirigama = Mortality_Pannala

Test Statistics^a

	Mortality_Thalaw a - Mortality_Mama dala	Mortality_Pannal a - Mortality_Mamad ala	Mortality_Miriga ma - Mortality_Mamad ala	Mortality_Pannal a - Mortality_Thalaw a	Mortality_Miriga ma - Mortality_Thalaw a	Mortality_Miriga ma - Mortality_Pannal a
Z	.000 ^b	.000 ^b	-1.000 ^c	.000 ^b	-1.000 ^c	-1.000 ^c
Asymp. Sig. (2-tailed)	1.000	1.000	.317	1.000	.317	.317

- a. Wilcoxon Signed Ranks Test
- b. The sum of negative ranks equals the sum of positive ranks.
- c. Based on negative ranks.

Significant values were >0.05 (0.317-1.000) for deltamethrin insecticide. Therefore, there is no significant difference among these four populations.

The 95% confidence interval limits (lower and upper) were calculated using the 1-sample t (Test and confidence level) in Minitab (version 15) for DDT, malathion, propoxur and deltamethrin in each study site.

DDT

Pannala

Variable	N	Mean	StDev	SE Mean	95% CI
0.4	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.6	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.8	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
1.5	5	61.0000	1.5811	0.7071	(59.0368, 62.9632)=1.9632
2.0	5	61.0000	1.5811	0.7071	(59.0368, 62.9632)=1.9632
2.5	5	61.8000	1.9235	0.8602	(59.4116, 64.1884)=2.3884
3.0	5	63.0000	1.5811	0.7071	(61.0368, 64.9632)=1.9632
4.0	5	64.0000	1.5811	0.7071	(62.0368, 65.9632)=1.9632
0.4	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.6	5	90.0000	1.5811	0.7071	(88.0368, 91.9632)=1.9632
0.8	5	100.000	0.000	0.000	(100.000, 100.000)=0
1.5	5	100.000	0.000	0.000	(100.000, 100.000)=0
2.0	5	100.000	0.000	0.000	(100.000, 100.000)=0
2.5	5	100.000	0.000	0.000	(100.000, 100.000)=0
3.0	5	100.000	0.000	0.000	(100.000, 100.000)=0
4.0	5	100.000	0.000	0.000	(100.000, 100.000)=0

Thalawa

Variable	N	Mean	StDev	SE Mean	95% CI
0.4	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.6	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.8	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
1.5	5	56.0000	1.5811	0.7071	(54.0368, 57.9632)=1.9632
2.0	5	57.2000	2.5884	1.1576	(53.9860, 60.4140)=3.214
2.5	5	60.0000	1.5811	0.7071	(58.0368, 61.9632)=1.9632
3.0	5	62.0000	1.5811	0.7071	(60.0368, 63.9632)=1.9632
4.0	5	66.0000	1.5811	0.7071	(64.0368, 67.9632)=1.9632
0.4	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.6	5	80.0000	1.5811	0.7071	(78.0368, 81.9632)=1.9632
0.8	5	100.000	0.000	0.000	(100.000, 100.000)=0
1.5	5	100.000	0.000	0.000	(100.000, 100.000)=0
2.0	5	100.000	0.000	0.000	(100.000, 100.000)=0
2.5	5	100.000	0.000	0.000	(100.000, 100.000)=0
3.0	5	100.000	0.000	0.000	(100.000, 100.000)=0
4.0	5	100.000	0.000	0.000	(100.000, 100.000)=0

Mamadala

Variable	N	Mean	StDev	SE Mean	95% CI
0.4	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.6	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.8	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
1.5	5	55.0000	1.5811	0.7071	(53.0368, 56.9632)=1.9632
2.0	5	58.0000	1.5811	0.7071	(56.0368, 59.9632)=1.9632
2.5	5	60.2000	1.3038	0.5831	(58.5811, 61.8189)=1.6189
3.0	5	62.4000	1.8166	0.8124	(60.1444, 64.6556)=2.2556
4.0	5	62.4000	1.8166	0.8124	(60.1444, 64.6556)=2.2556
0.4	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.6	5	65.4000	1.5166	0.6782	(63.5169, 67.2831)=1.8831
0.8	5	75.2000	0.8367	0.3742	(74.1611, 76.2389)=1.0389
1.5	5	100.000	0.000	0.000	(100.000, 100.000)=0
2.0	5	100.000	0.000	0.000	(100.000, 100.000)=0
2.5	5	100.000	0.000	0.000	(100.000, 100.000)=0
3.0	5	100.000	0.000	0.000	(100.000, 100.000)=0
4.0	5	100.000	0.000	0.000	(100.000, 100.000)=0

Mirigama

Variable	N	Mean	StDev	SE Mean	95% CI
0.4	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.6	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.8	5	40.8000	1.3038	0.5831	(39.1811, 42.4189)=1.6189
1.5	5	47.4000	1.1402	0.5099	(45.9843, 48.8157)=1.4157
2.0	5	50.6000	1.1402	0.5099	(49.1843, 52.0157)=1.4157
2.5	5	52.4000	1.1402	0.5099	(50.9843, 53.8157)=1.4157
3.0	5	53.0000	1.5811	0.7071	(51.0368, 54.9632)=1.9632
4.0	5	56.0000	1.5811	0.7071	(54.0368, 57.9632)=1.9632
0.4	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.6	5	91.0000	1.5811	0.7071	(89.0368, 92.9632)=1.9632
0.8	5	100.000	0.000	0.000	(100.000, 100.000)=0
1.5	5	100.000	0.000	0.000	(100.000, 100.000)=0
2.0	5	100.000	0.000	0.000	(100.000, 100.000)=0
2.5	5	100.000	0.000	0.000	(100.000, 100.000)=0
3.0	5	100.000	0.000	0.000	(100.000, 100.000)=0
4.0	5	100.000	0.000	0.000	(100.000, 100.000)=0

Malathion

Pannala

Variable	N	Mean	StDev	SE Mean	95% CI
0.5	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.7	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.9	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
2.0	5	67.0000	1.5811	0.7071	(65.0368, 68.9632)=1.9632
2.5	5	74.0000	1.5811	0.7071	(72.0368, 75.9632)=1.9632
3.0	5	74.0000	1.5811	0.7071	(72.0368, 75.9632)=1.9632
3.5	5	75.0000	1.5811	0.7071	(73.0368, 76.9632)=1.9632
5.0	5	76.0000	1.5811	0.7071	(74.0368, 77.9632)=1.9632
0.5	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.7	5	87.6000	1.1402	0.5099	(86.1843, 89.0157)=1.4157
0.9	5	100.000	0.000	0.000	(100.000, 100.000)=0
2.0	5	100.000	0.000	0.000	(100.000, 100.000)=0
2.5	5	100.000	0.000	0.000	(100.000, 100.000)=0
3.0	5	100.000	0.000	0.000	(100.000, 100.000)=0
3.5	5	100.000	0.000	0.000	(100.000, 100.000)=0
5.0	5	100.000	0.000	0.000	(100.000, 100.000)=0

Thalawa

Variable	N	Mean	StDev	SE Mean	95% CI
0.5	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.7	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.9	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
2.0	5	65.8000	1.3038	0.5831	(64.1811, 67.4189)=1.6185
2.5	5	71.2000	1.3038	0.5831	(69.5811, 72.8189)=1.6189
3.0	5	72.6000	1.1402	0.5099	(71.1843, 74.0157)=1.4157
3.5	5	73.2000	0.8367	0.3742	(72.1611, 74.2389)=1.0389
5.0	5	74.2000	1.3038	0.5831	(72.5811, 75.8189)=1.6189
0.5	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.7	5	78.0000	1.0000	0.4472	(76.7583, 79.2417)=1.2147
0.9	5	100.000	0.000	0.000	(100.000, 100.000)=0
2.0	5	100.000	0.000	0.000	(100.000, 100.000)=0
2.5	5	100.000	0.000	0.000	(100.000, 100.000)=0
3.0	5	100.000	0.000	0.000	(100.000, 100.000)=0
3.5	5	100.000	0.000	0.000	(100.000, 100.000)=0
5.0	5	100.000	0.000	0.000	(100.000, 100.000)=0

Mamadala

Variable	N	Mean	StDev	SE Mean	95% CI
0.5	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.7	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.9	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
2.0	5	58.8000	1.3038	0.5831	(57.1811, 60.4189)=1.6189
2.5	5	62.4000	1.1402	0.5099	(60.9843, 63.8157)=1.4157
3.0	5	63.6000	1.1402	0.5099	(62.1843, 65.0157)=1.4157
3.5	5	64.8000	1.3038	0.5831	(63.1811, 66.4189)=1.6189
5.0	5	67.2000	1.4832	0.6633	(65.3583, 69.0417)=1.8417
0.5	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.7	5	61.8000	1.3038	0.5831	(60.1811, 63.4189)=1.6189
0.9	5	76.6000	1.1402	0.5099	(75.1843, 78.0157)=1.4157
2.0	5	100.000	0.000	0.000	(100.000, 100.000)=0
2.5	5	100.000	0.000	0.000	(100.000, 100.000)=0
3.0	5	100.000	0.000	0.000	(100.000, 100.000)=0
3.5	5	100.000	0.000	0.000	(100.000, 100.000)=0
5.0	5	100.000	0.000	0.000	(100.000, 100.000)=0

Mirigama

Variable	N	Mean	StDev	SE Mean	95% CI
0.5	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.7	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.9	5	42.2000	0.8367	0.3742	(41.1611, 43.2389)=1.0389
2.0	5	44.6000	1.1402	0.5099	(43.1843, 46.0157)=1.4157
2.5	5	48.2000	0.8367	0.3742	(47.1611, 49.2389)=1.0389
3.0	5	50.4000	1.1402	0.5099	(48.9843, 51.8157)=1.4157
3.5	5	52.4000	1.1402	0.5099	(50.9843, 53.8157)=1.4157
5.0	5	54.2000	0.8367	0.3742	(53.1611, 55.2389)=1.0389
0.5	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.7	5	90.4000	1.1402	0.5099	(88.9843, 91.8157)=1.4157
0.9	5	100.000	0.000	0.000	(100.000, 100.000)=0
2.0	5	100.000	0.000	0.000	(100.000, 100.000)=0
2.5	5	100.000	0.000	0.000	(100.000, 100.000)=0
3.0	5	100.000	0.000	0.000	(100.000, 100.000)=0
3.5	5	100.000	0.000	0.000	(100.000, 100.000)=0
5.0	5	100.000	0.000	0.000	(100.000, 100.000)=0

Propoxur

Pannala

Variable	N	Mean	StDev	SE Mean	95% CI
0.01	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.015	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.017	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.03	5	62.6000	1.1402	0.5099	(61.1843, 64.0157)=1.4157
0.07	5	64.0000	1.5811	0.7071	(62.0368, 65.9632)=1.9632
0.1	5	64.0000	1.5811	0.7071	(62.0368, 65.9632)=1.9632
0.01	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.015	5	90.0000	1.5811	0.7071	(88.0368, 91.9632)=1.9632
0.017	5	100.000	0.000	0.000	(100.000, 100.000)=0
0.03	5	100.000	0.000	0.000	(100.000, 100.000)=0
0.07	5	100.000	0.000	0.000	(100.000, 100.000)=0
0.1	5	100.000	0.000	0.000	(100.000, 100.000)=0

Thalawa

Variable	N	Mean	StDev	SE Mean	95% CI
0.01	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.015	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.017	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.03	5	60.0000	1.5811	0.7071	(58.0368, 61.9632)=1.9632
0.07	5	63.6000	1.1402	0.5099	(62.1843, 65.0157)=1.4157
0.1	5	64.0000	1.5811	0.7071	(62.0368, 65.9632)=1.9632
0.01	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.015	5	82.0000	1.5811	0.7071	(80.0368, 83.9632)=1.9632
0.017	5	100.000	0.000	0.000	(100.000, 100.000)=0
0.03	5	100.000	0.000	0.000	(100.000, 100.000)=0
0.07	5	100.000	0.000	0.000	(100.000, 100.000)=0
0.1	5	100.000	0.000	0.000	(100.000, 100.000)=0

Mamadala

Variable	N	Mean	StDev	SE Mean	95% CI
0.01	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.015	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.017	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.03	5	55.2000	1.3038	0.5831	(53.5811, 56.8189)=1.6189
0.07	5	56.8000	1.3038	0.5831	(55.1811, 58.4189)=1.6189
0.1	5	57.8000	0.8367	0.3742	(56.7611, 58.8389)=1.0389
0.01	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.015	5	67.4000	1.1402	0.5099	(65.9843, 68.8157)=1.4157
0.017	5	76.0000	1.5811	0.7071	(74.0368, 77.9632)=1.9632
0.03	5	100.000	0.000	0.000	(100.000, 100.000)=0
0.07	5	100.000	0.000	0.000	(100.000, 100.000)=0
0.1	5	100.000	0.000	0.000	(100.000, 100.000)=0

Mirigama

Variable	N	Mean	StDev	SE Mean	95% CI
0.01	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.015	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.017	5	30.4000	1.1402	0.5099	(28.9843, 31.8157)=1.4157
0.03	5	40.0000	1.5811	0.7071	(38.0368, 41.9632)=1.9632
0.07	5	51.0000	1.5811	0.7071	(49.0368, 52.9632)=1.9632
0.1	5	60.0000	1.5811	0.7071	(58.0368, 61.9632)=1.9632
0.01	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.015	5	91.0000	1.5811	0.7071	(89.0368, 92.9632)=1.9632
0.017	5	100.000	0.000	0.000	(100.000, 100.000)=0
0.03	5	100.000	0.000	0.000	(100.000, 100.000)=0
0.07	5	100.000	0.000	0.000	(100.000, 100.000)=0
0.1	5	100.000	0.000	0.000	(100.000, 100.000)=0

Deltamethrin

Pannala

Variable	N	Mean	StDev	SE Mean	95% CI
0.005	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.007	5	42.4000	1.1402	0.5099	(40.9843, 43.8157)=1.4157
0.009	5	51.4000	1.1402	0.5099	(49.9843, 52.8157)=1.4157
0.02	5	64.0000	1.5811	0.7071	(62.0368, 65.9632)=1.9632
0.025	5	64.0000	1.5811	0.7071	(62.0368, 65.9632)=1.9632
0.03	5	65.0000	1.5811	0.7071	(63.0368, 66.9632)=0.9816
0.035	5	67.0000	1.5811	0.7071	(65.0368, 68.9632)=1.9632
0.05	5	67.0000	1.5811	0.7071	(65.0368, 68.9632)=1.9632
0.005	5	0.000000	0.000000	0.000000	(0.000000, 0.000000)=0
0.007	5	100.000	0.000	0.000	(100.000, 100.000)=0
0.009	5	100.000	0.000	0.000	(100.000, 100.000)=0
0.02	5	100.000	0.000	0.000	(100.000, 100.000)=0
0.025	5	100.000	0.000	0.000	(100.000, 100.000)=0

0.03	5	100.000	0.000	0.000	(100.000,	100.000)=0
0.035	5	100.000	0.000	0.000	(100.000,	100.000)=0
0.05	5	100.000	0.000	0.000	(100.000,	100.000)=0

Thalawa

Variable	N	Mean	StDev	SE Mean	95% CI	
0.005	5	0.000000	0.000000	0.000000	(0.000000,	0.000000)=0
0.007	5	40.0000	1.5811	0.7071	(38.0368,	41.9632)=1.9632
0.009	5	47.0000	1.5811	0.7071	(45.0368,	48.9632)=1.9632
0.02	5	54.0000	1.5811	0.7071	(52.0368,	55.9632)=1.9632
0.025	5	57.6000	1.1402	0.5099	(56.1843,	59.0157)=1.4157
p0.03	5	60.2000	1.9235	0.8602	(57.8116,	62.5884)=2.3884
0.035	5	66.0000	1.5811	0.7071	(64.0368,	67.9632)=1.9632
0.05	5	66.0000	1.5811	0.7071	(64.0368,	67.9632)=1.9632
0.005	5	0.000000	0.000000	0.000000	(0.000000,	0.000000)=0
0.007	5	100.000	0.000	0.000	(100.000,	100.000)=0
0.009	5	100.000	0.000	0.000	(100.000,	100.000)=0
0.02	5	100.000	0.000	0.000	(100.000,	100.000)=0
0.025	5	100.000	0.000	0.000	(100.000,	100.000)=0
0.03	5	100.000	0.000	0.000	(100.000,	100.000)=0
0.035	5	100.000	0.000	0.000	(100.000,	100.000)=0
0.05	5	100.000	0.000	0.000	(100.000,	100.000)=0

Mamadala

Variable	N	Mean	StDev	SE Mean	95% CI	
0.005	5	0.000000	0.000000	0.000000	(0.000000,	0.000000)=0
0.007	5	34.0000	1.5811	0.7071	(32.0368,	35.9632)=1.9632
0.009	5	42.2000	1.3038	0.5831	(40.5811,	43.8189)=1.6189
0.02	5	53.0000	1.5811	0.7071	(51.0368,	54.9632)=1.9632
0.025	5	54.8000	1.9235	0.8602	(52.4116,	57.1884)=2.3884
p0.03	5	55.4000	1.5166	0.6782	(53.5169,	57.2831)=1.8831
0.035	5	57.0000	1.5811	0.7071	(55.0368,	58.9632)=1.9632
0.05	5	57.0000	1.5811	0.7071	(55.0368,	58.9632)=1.9632
0.005	5	0.000000	0.000000	0.000000	(0.000000,	0.000000)=0
0.007	5	100.000	0.000	0.000	(100.000,	100.000)=0
0.009	5	100.000	0.000	0.000	(100.000,	100.000)=0
0.02	5	100.000	0.000	0.000	(100.000,	100.000)=0
0.025	5	100.000	0.000	0.000	(100.000,	100.000)=0
0.03	5	100.000	0.000	0.000	(100.000,	100.000)=0
0.035	5	100.000	0.000	0.000	(100.000,	100.000)=0
0.05	5	100.000	0.000	0.000	(100.000,	100.000)=0

Mirigama

Variable	N	Mean	StDev	SE Mean	95% CI	
0.005	5	0.000000	0.000000	0.000000	(0.000000,	0.000000)=0
0.007	5	20.0000	1.5811	0.7071	(18.0368,	21.9632)=1.9632
0.009	5	34.0000	1.5811	0.7071	(32.0368,	35.9632)=1.9632
0.02	5	38.0000	1.5811	0.7071	(36.0368,	39.9632)=1.9632
0.025	5	45.2000	1.9235	0.8602	(42.8116,	47.5884)=2.3884
0.03	5	52.4000	2.0736	0.9274	(49.8252,	54.9748)=2.5748
0.035	5	60.0000	1.5811	0.7071	(58.0368,	61.9632)=1.9632
0.05	5	67.2000	1.9235	0.8602	(64.8116,	69.5884)=2.3884
0.005	5	30.4000	2.0736	0.9274	(27.8252,	32.9748)=2.5748
0.007	5	100.000	0.000	0.000	(100.000,	100.000)=0
0.009	5	100.000	0.000	0.000	(100.000,	100.000)=0
0.02	5	100.000	0.000	0.000	(100.000,	100.000)=0
0.025	5	100.000	0.000	0.000	(100.000,	100.000)=0
p0.03	5	100.000	0.000	0.000	(100.000,	100.000)=0
0.035	5	100.000	0.000	0.000	(100.000,	100.000)=0
0.05	5	100.000	0.000	0.000	(100.000,	100.000)=0