#### Field Simulation on the efficacy of Bti Vectobac WG

**Objective:** To determine the penetration of Bti VectoBac WG in field applications.

Sprayer: Stihl SR 420

Spray Time: 0903-0928 (25 minutes, with orifice 2 & 3 intermittently, On and off throughout the spray)

Product: VectoBac WG

Mix Rate: 125 g in 12 L water (1 caj)

Mosquito: Aedes aegypti (F1050) 10 larvae in 200 ml water Stage: L3 (hatched 14

72-hours after Spray Operation (4th days after)\_17 April 2015

		No.	
No.	Description (From left to Spray; corner end to main road)	Larvae	3-h
			Dead
1	1st house, under the staircase, beside the zinc plate	10	10
2	2nd house, first floor, on the ledge	10	10
3	1st house, in the bushes	10	9
4	2nd house, in the bushes	10	10
5	3rd house (green), under the small table	10	10
6	4th house, outside the house, near to the road	10	10
7	5th house, outside the house, by the side wooden gate	10	10
8	6th house, inside the box at the yard compound	10	10
9	6th house, nearby the window	10	10
10	6th house, in the bushes	10	10
11	7th house, on the staircase	10	10
12	7th house, 1st floor, behind the wall of balcony	10	10
13	8th house (corner lot next to main road), behind the zinc plate	10	9
14	8th house, underneath the wood piece	10	10
15	8th house, on the ground, near to the staircase	10	10
17	8th house, in between the rubbish bins	10	10
18	8th house, in the thick bushes (further in compare to container 16)	10	9
	8th house, in the thick bushes (further in compare to container 18)	10	10
20	8th house, on the staircase to first floor.	10	10
	Mean		98.
	SD		3.7463
1	SE		0.8594

### 72-hours after Spray Operation (4th days after)\_17 April 2015 Control

		No.	
No.	Description (From left to Spray; corner end to main road)	Larvae	3-h
			Dead
1	Control 1	10	0
2	Control 2	10	0
3	Control 3	10	0
	Mean		0.0
	SD		(

1000

Field Simu Objective: Date: 14/0 Sprayer: St Spray Time

Product: V
Mix Rate: 1

1/04/2015)

Mosquito: Day 7 after

			Day / arte
Mort	ality		
our	24-hr		No.
%	Dead	%	
100.00	10	100.00	1
100.00	10	100.00	2
90.00	10	100.00	3
100.00	10	100.00	4
100.00	10	100.00	5
100.00	10	100.00	6
100.00	10	100.00	7
100.00	10	100.00	8
100.00	10	100.00	9
100.00	10	100.00	10
100.00	10	100.00	11
100.00	10	100.00	12
90.00	10	100.00	13
100.00	10	100.00	14
100.00	10	100.00	15
100.00	10	100.00	17
90.00	10	100.00	18
100.00	10	100.00	19
100.00	10	100.00	20
.42		.00	
70085	0.0 0.0		
70005	0.	00	

Day 7 after Control

Mor	tality		
our	24-hr		No.
%	Dead	%	
0.00	0	0.00	1
0.00	0	0.00	2
0.00	0	0.00	3
00	0.0	00	
)	0.0	00	

#### lation on the efficacy of Bti Vectobac WG

To determine the penetration of Bti VectoBac WG in field applications.

4/2015 Time: 0800-1000

**Stage:** L3 (hatched 17/04/2015)

:ihl SR 420

2: 0903-0928 (25 minutes, with orifice 2 & 3 intermittently, On and off throughout the spray)

ectoBac WG

#### 125 g in 12 L water (1 caj)

Aedes aegypti (F1050) 10 larvae in remaining water

r Spray Operation\_20th April 2015

our	
%	
100.00	
100.00	
100.00	
100.00	
100.00	
100.00	
100.00	
100.00	
100.00	
100.00	
100.00	
100.00	
100.00	
100.00	
100.00	
100.00	
100.00	
100.00	
100.00	
100.00	

### r Spray Operation\_20th April 2015

	No.		Mort
Description (From left to Spray; corner end to main road)	Larvae	5-h	our
		Dead	%
Control 1	10	0	0.00
Control 2	10	0	0.00
Control 3	10	0	0.00
Mean		0.	00
SD		(	)

#### Field Simulation on the efficacy of Bti Vectobac WG

**Objective:** To determine the penetration of Bti VectoBac WG in field applications.

**Date:** 14/04/2015 **Sprayer:** Stihl SR 420

Spray Time: 0903-0928 (25 minutes, with orifice 2 & 3 intermittently, On and off thi

**Product:** VectoBac WG

Mix Rate: 125 g in 12 L water (1 caj)

Mosquito: Aedes aegypti (F1050) 10 larvae in remaining water

Day 14 after Spray Operation\_27th April 2015

	Description (From left to Spray; corner end to main road)  1st house, under the staircase, beside the zinc plate
	1st house, under the staircase, beside the zinc plate
	1st house, under the staircase, beside the zinc plate
2	•
	2nd house, first floor, on the ledge
3	1st house, in the bushes
4	2nd house, in the bushes
5	3rd house (green), under the small table
6	4th house, outside the house, near to the road
7	5th house, outside the house, by the side wooden gate
8	6th house, inside the box at the yard compound
9	6th house, nearby the window
10	6th house, in the bushes
11	7th house, on the staircase
12	7th house, 1st floor, behind the wall of balcony
13	8th house (corner lot next to main road), behind the zinc plate
14	8th house, underneath the wood piece
15	8th house, on the ground, near to the staircase
17	8th house, in between the rubbish bins
18	8th house, in the thick bushes (further in compare to container 16)
	8th house, in the thick bushes (further in compare to container 18)
20	8th house, on the staircase to first floor.
	Mean SD
	SE SE
	3 4 5 6 7 8 9 10 11 12 13 14 15 17 18

## Day 14 after Spray Operation\_27th April 2015 Control

ality			
24-hr No.		No.	Description (From left to Spray; corner end to main road)
Dead	%		
0	0.00	1	Control 1
0	0.00	2	Control 2
0	0.00	3	Control 3
0.00			Mean
	0		SD

Time: 0800-1000

roughout the spray)

Field Sin Objectiv Date: 14 Sprayer:

Spray Tii Product:

Product: Mix Rate

Stage: L3 (hatched 24/04/2015) Mosquit

Day 21 a

No.	Mortality				
Larvae	5-hour 24-hr			-hr	No.
	Dead	%	Dead	%	
10	10	100.00	10	100.00	1
10	10	100.00	10	100.00	2
10	10	100.00	10	100.00	3
10	7	70.00	10	100.00	4
10	10	100.00	10	100.00	5
10	10	100.00	10	100.00	6
10	10	100.00	10	100.00	7
10	10	100.00	10	100.00	8
10	9	90.00	10	100.00	9
10	10	100.00	10	100.00	10
10	9	90.00	10	100.00	11
10	10	100.00	10	100.00	12
10	10	100.00	10	100.00	13
10	10	100.00	10	100.00	14
10	10	100.00	10	100.00	15
10	10	100.00	10	100.00	17
10	10	100.00	10	100.00	18
10	10	100.00	10	100.00	19
10	10	100.00	10	100.00	20
	97.			0.00	
	7.3349 1.6827	47903		00 00	
	1.002/	7/303	0.	00	

Day 21 a Control

No.		Mort	ality			
Larvae	5-h	our	24	-hr	No.	
	Dead	%	Dead	%		
10	0	0.00	0	0.00	:	1
10	0	0.00	1	10.00		2
10	0	0.00	0	0.00		3
	0.	00	3.	33		
		)	5.	77		

#### nulation on the efficacy of Bti Vectobac WG

e: To determine the penetration of Bti VectoBac WG in field applications.

/04/2015 Time: 0800-1000

Stage: L3 (hatched 01/05/201!

Stihl SR 420

me: 0903-0928 (25 minutes, with orifice 2 & 3 intermittently, On and off throughout the spray)

: VectoBac WG

2: 125 g in 12 L water (1 caj)

o: Aedes aegypti (F1050) 10 larvae in remaining water

Ifter Spray Operation\_04 May 2015

No.		Moi	
Larvae	3-hc	our	
	Dead	%	
10	10	100.00	
10	10	100.00	
10	10	100.00	
10	7	70.00	
10	10	100.00	
10	10	100.00	
10	10	100.00	
10	10	100.00	
10	9	90.00	
10	10	100.00	
10	9	90.00	
10	10	100.00	
10	10	100.00	
10	10	100.00	
10	10	100.00	
10	10	100.00	
10	10	100.00	
10	10	100.00	
10	10	100.00	
	97.37		
	7.334928056		
	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Larvae         3-ho           Dead         10           10         10           10         10           10         7           10         10           10         10           10         10           10         9           10         10           10         10           10         10           10         10           10         10           10         10           10         10           10         10           10         10           10         10           10         10           10         10           10         10           10         10           10         10           10         10           10         10           10         10	

#### Ifter Spray Operation\_04 May 2015

	No.		Mo
Description (From left to Spray; corner end to main road)	Larvae	3-hc	ur
		Dead	%
Control 1	10	0	0.00
Control 2	10	0	0.00
Control 3	10	0	0.00
Mean		0.0	0
SD		0	

#### Field Simulation on the efficacy of Bti Vectobac WG

**Objective:** To determine the penetration of Bti VectoBac WG in field applications.

**Date:** 14/04/2015 **Sprayer:** Stihl SR 420

Spray Time: 0903-0928 (25 minutes, with orifice 2 & 3 intermittently, On and off thi

**Product:** VectoBac WG

5)

Mix Rate: 125 g in 12 L water (1 caj)

Mosquito: Aedes aegypti (F1052) 10 larvae/cup in remaining water + refill another

Day 28 after Spray Operation\_11 May 2015

tality			· · · · <u>-</u> ·				
24-hr		No.	Description (From left to Spray; corner end to main road)				
Dead	%						
10	100.00	1	1st house, under the staircase, beside the zinc plate				
10	100.00	2	2nd house, first floor, on the ledge				
10	100.00	3	1st house, in the bushes				
10	100.00	4	2nd house, in the bushes				
10	100.00	5	3rd house (green), under the small table				
10	100.00	6	4th house, outside the house, near to the road				
10	100.00	7	5th house, outside the house, by the side wooden gate				
10	100.00	8	6th house, inside the box at the yard compound				
10	100.00	9	6th house, nearby the window				
10	100.00	10	6th house, in the bushes				
10	100.00	11	7th house, on the staircase				
10	100.00	12	7th house, 1st floor, behind the wall of balcony				
10	100.00	13	8th house (corner lot next to main road), behind the zinc plate				
10	100.00	14	8th house, underneath the wood piece				
10	100.00	15	8th house, on the ground, near to the staircase				
10	100.00	17	8th house, in between the rubbish bins				
10	100.00	18	8th house, in the thick bushes (further in compare to container 16)				
10	100.00		8th house, in the thick bushes (further in compare to container 18)				
10	100.00	20	8th house, on the staircase to first floor.				
100.00			Mean SD				
0.00 0.00			SE				
			3-				

### Day 21 after Spray Operation\_04 May 2015 Control

tality							
24-hr		No.	Description (From left to Spray; corner end to main road)				
Dead	%						
0	0.00	1	Control 1				
0	0.00	2	Control 2				
0	0.00	3	Control 3				
0.0	0.00		Mean				
0.0	0.00		SD				

Time: 0800-1000

roughout the spray)

#### 200 ml water

**Stage:** L3 (hatched 08/05/2015, 5pm)

No.	Mortality									
Larvae	3-hour		24-hr		48-Hr		72-Hr		96-	
	Dead	%	Dead	%	Dead	%	Dead	%	Dead	
10	9	90.00	10	100.00	10	100.00	10	100.00	10	
10	1	10.00	9	90.00	10	100.00	10	100.00	10	
10	1	10.00	9	90.00	9	90.00	10	100.00	10	
10	6	60.00	10	100.00	10	100.00	10	100.00	10	
10	1	10.00	8	80.00	10	100.00	10	100.00	10	
10	3	30.00	10	100.00	10	100.00	10	100.00	10	
10	1	10.00	10	100.00	10	100.00	10	100.00	10	
10	3	30.00	10	100.00	10	100.00	10	100.00	10	
10	10	100.00	10	100.00	10	100.00	10	100.00	10	
10	2	20.00	10	100.00	10	100.00	10	100.00	10	
10	10	100.00	10	100.00	10	100.00	10	100.00	10	
10	3	30.00	10	100.00	10	100.00	10	100.00	10	
10	9	90.00	10	100.00	10	100.00	10	100.00	10	
10	0	0.00	10	100.00	10	100.00	10	100.00	10	
10	2	20.00	10	100.00	10	100.00	10	100.00	10	
10	0	0.00	9	90.00	10	100.00	10	100.00	10	
10	1	10.00	10	100.00	10	100.00	10	100.00	10	
10	0	0.00	8	80.00	8	80.00	9	90.00	10	
10	10	100.00	10	100.00	10	100.00	10	100.00	10	
	37.89		96.32		98.42		99.47		100	
	38.38		6.84		5.01		2.29		0.0	
	8.81		1.57		1.15		0.53		0.0	

# Day 28 after Spray Operation\_11 May 2015 Control

No.		Moi	rtality				No.		
Larvae	3-hour		24-hr		No.	Descriptio	_	3-hour	
	Dead	%	Dead	%				Dead	%
10	0	0.00	0	0.00	1	Control 1	10	0	0.00
10	0	0.00	0	0.00	2	Control 2	10	0	0.00
10	0	0.00	0	0.00	3	Control 3	10	0	0.00
	0.00		0.00			Mean		0.	00
	0		0.00			SD		0	

-Hr
%
100.00
100.00
100.00
100.00
100.00
100.00
100.00
100.00
100.00
100.00
100.00
100.00
100.00
100.00
100.00
100.00
100.00
100.00
100.00
.00
00
00

24-	-hr	48-	-hr	72	-hr	72-hr		
Dead	%	Dead	%	Dead	%	Dead	%	
0	0.00	0	0.00	0	0.00	0	0.00	
0	0.00	0	0.00	0	0.00	1	10.00	
0	0.00	0	0.00	0	0.00	0	0.00	
0.00		0.00		0.00		3.33		
0.00		0.00		0.0	00	5.77		