

Use of the Biogents BG-Counter With Gravid
Mosquitoes and the Efficacy of Aerial
Applications for Nuisance Mosquitoes

Calcasieu Parish Mosquito Control

BG-Counter

The remote monitoring device
for mosquitoes



I wanted to know how well the counter
would work with a gravid trap



BG-Counter Inverted



Normal



Inverted

<http://live.bg-counter.com/>



willisfaron@gmail.com

Login


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Password?](#)


[Register](#)


[Start BG-Counter
Demo](#)





<http://live.bg-counter.com/traps/index>


**Biogents**
RemoteCounter


willisfaron@gmail.com (Administrator) 


 Dashboard


 **Trap Management**


 Profile


 Users


 Your Traps ▼


 **Biogents**

 ONVECTOR
TECHNOLOGY


 appmeister

 REMOSIS


Trap Location 

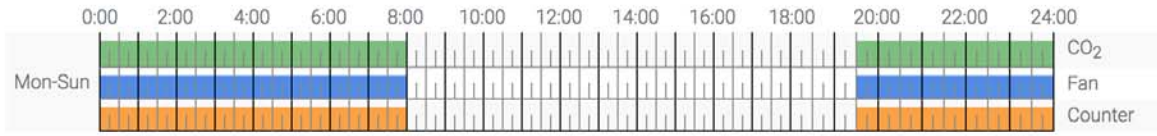


Map data ©2017 Google Terms of Use Report a map error

Trap Information 

Name	Biogents1
IMEI	012813005662905
Location	30.207125, -93.415638 (GPS)
Last Connection	2017-07-31@14:45
CO ₂ Cylinder	<div><div></div></div> 54% (17 Days)

Trap Schedule 



0:00 2:00 4:00 6:00 8:00 10:00 12:00 14:00 16:00 18:00 20:00 22:00 24:00

Mon-Sun

CO₂

Fan

Counter

<http://live.bg-counter.com/traps/index>

The REMOSIS project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 691131.

Chart Settings

Insect Type

Date:

2017-07-24@12:00

Mosquito Sum:

On

y-Axis Range:

0 - 200

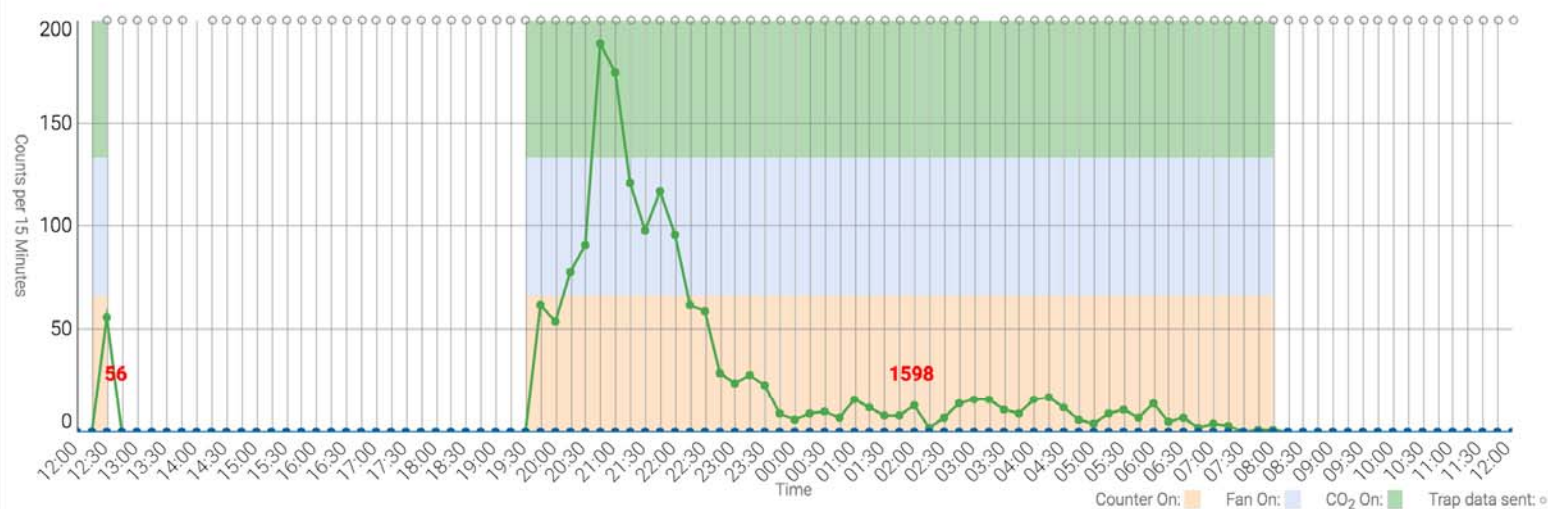
Biogents1

List

Export

< Previous Day

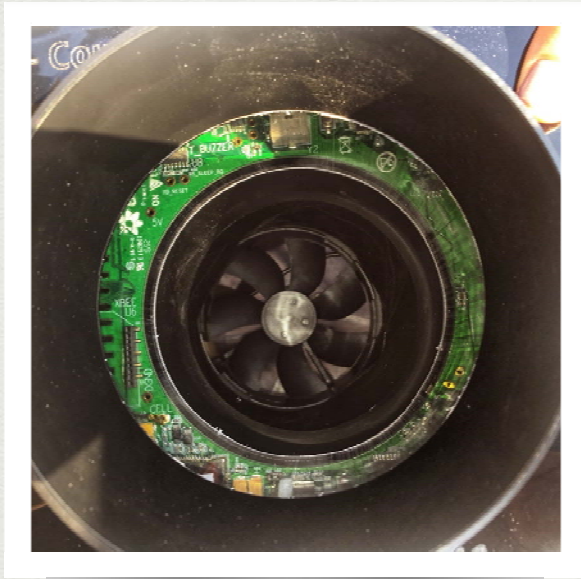
Next Day >



Load Daily Charts



BG-Counter



Mosquitoes needed to fly naturally past the counter before passing through the fan to being collected



Modified BG-Counter

- 12volt Marine battery
- Four inch pipe
- Standard mosquito cage
- BG-Counter stand



Gravid Mosquito Collection



Collection Comparison

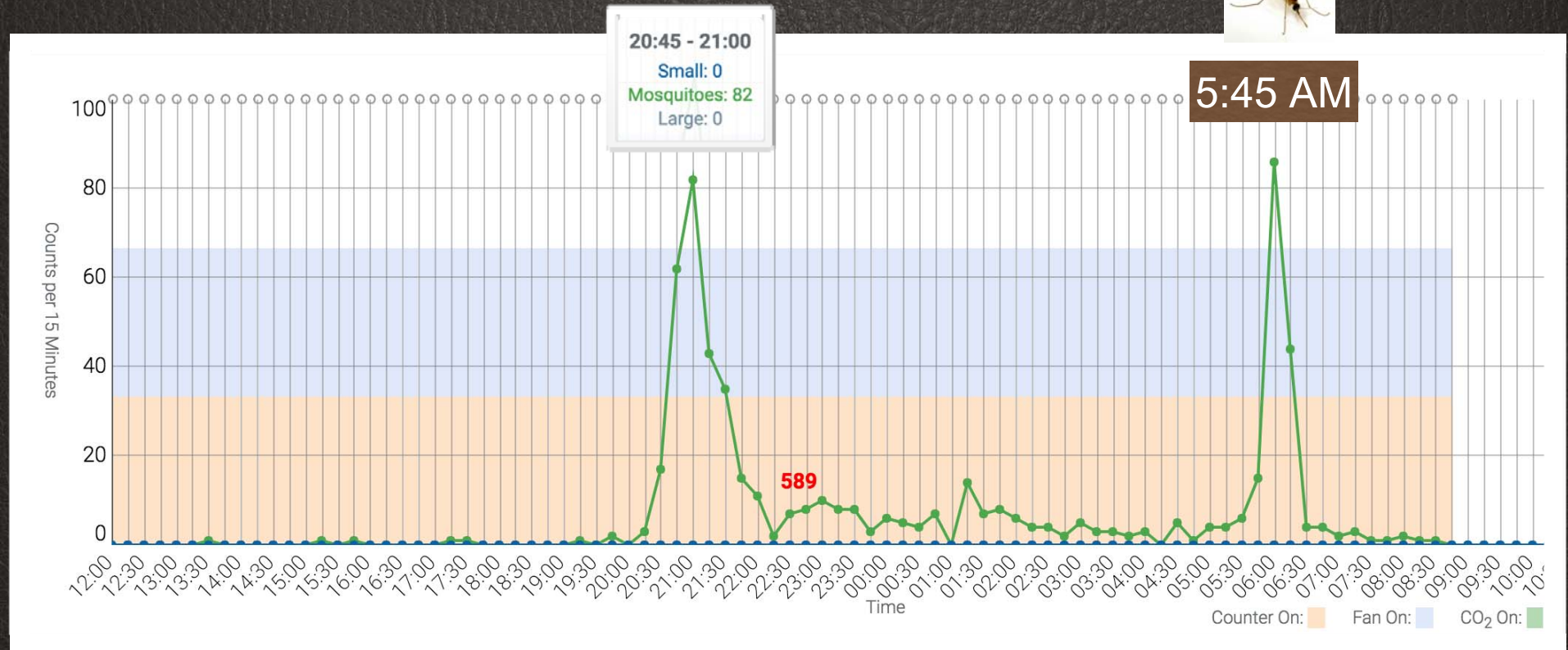
	Gravid Trap #	BG-Counter #	Accuracy
June 5th	160	174	92%
June 6th	538	589	91%
June 7th	554	587	94%



Gravid Female Activity

June 6th

8:45 - 9:00 PM





MONITOR AERIAL APPLICATION EFFICACY

Mosquitocide - Dibrom $5\frac{1}{8}$ oz per acre

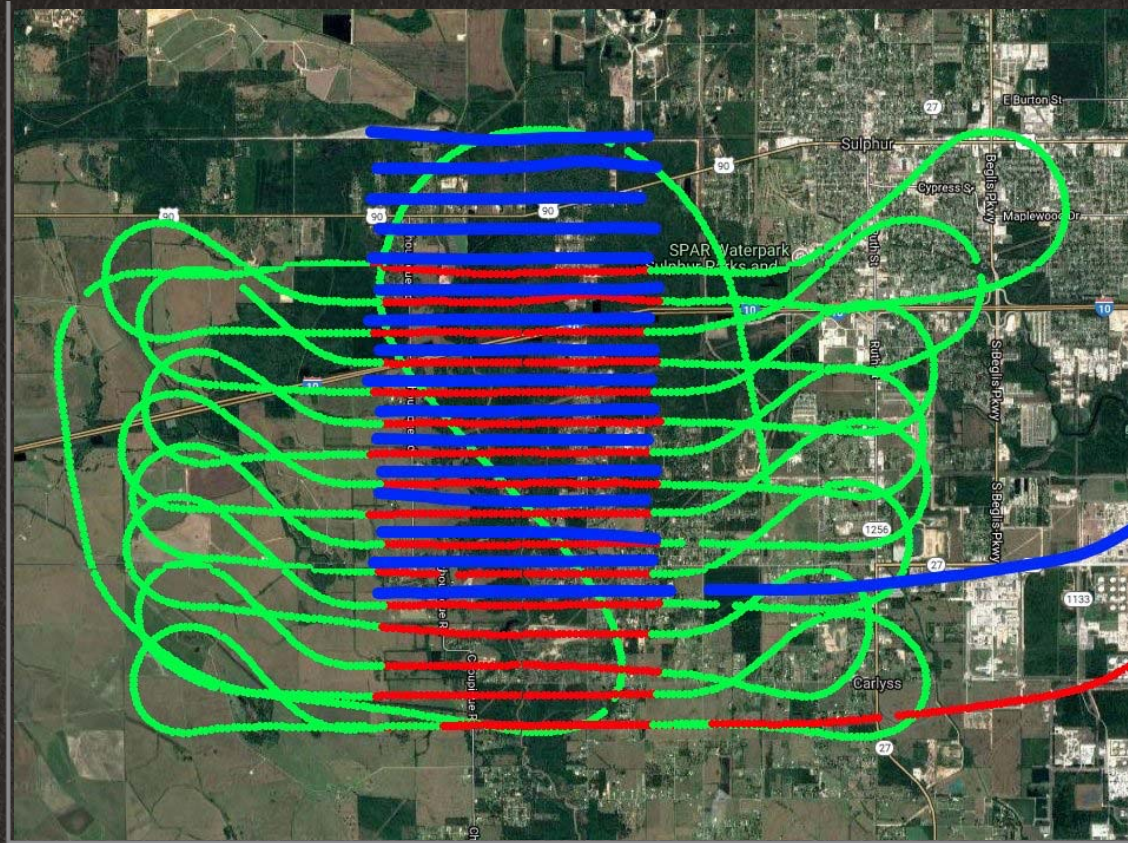
Host Seeking Mosquitoes



Mosquitoes Collected

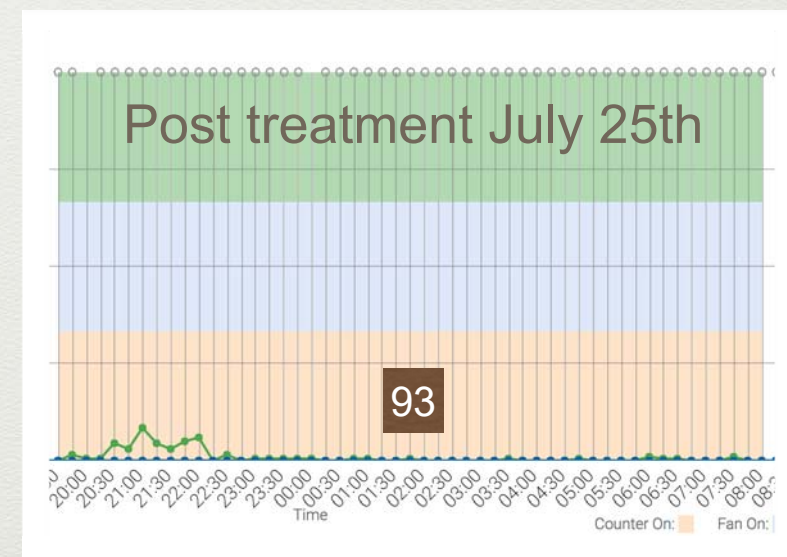
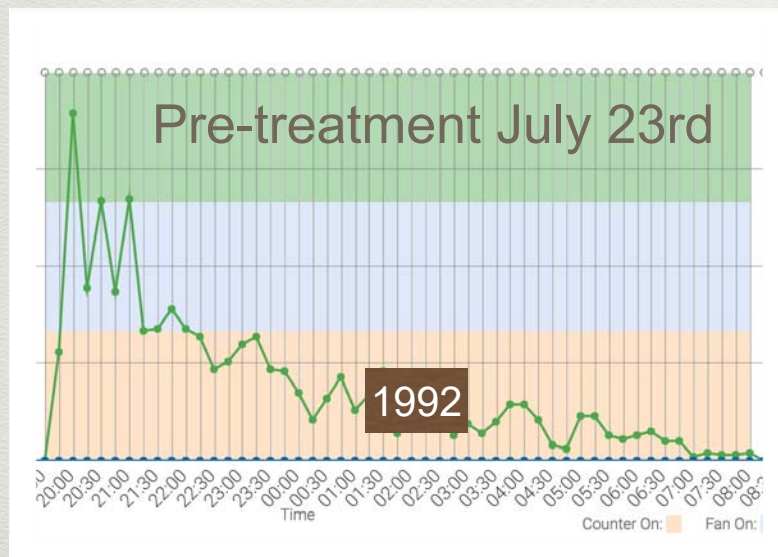
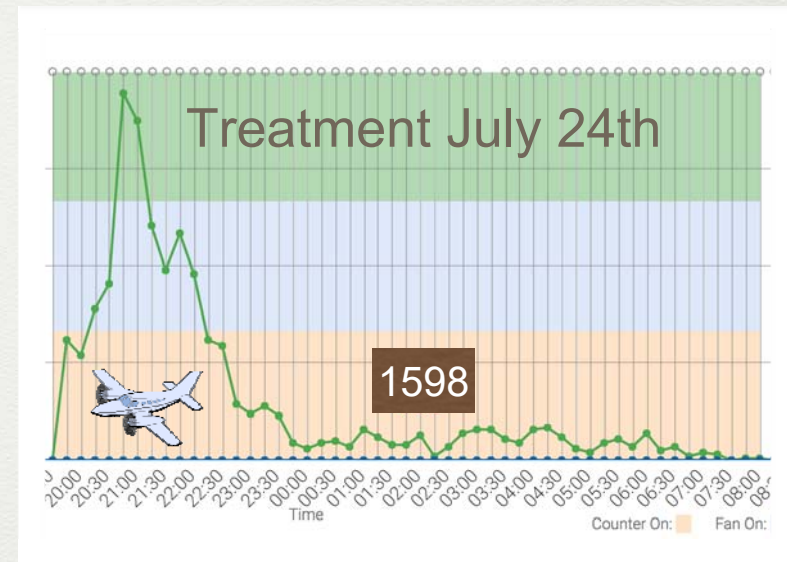
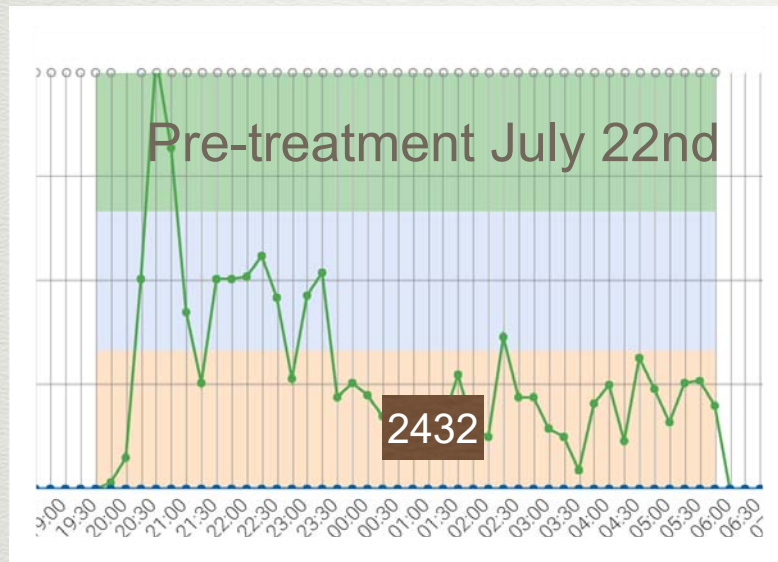
- *Cx. erraticus*
- *Cx. nigripalpus*
- *Cx. salinarius*
- *Ps. ferox*
- *Ps. columbiae*
- *Ae. fulvus pallens*
- *Ae. atlanticus*
- *Ae. albopictus*
- *An. crucians*



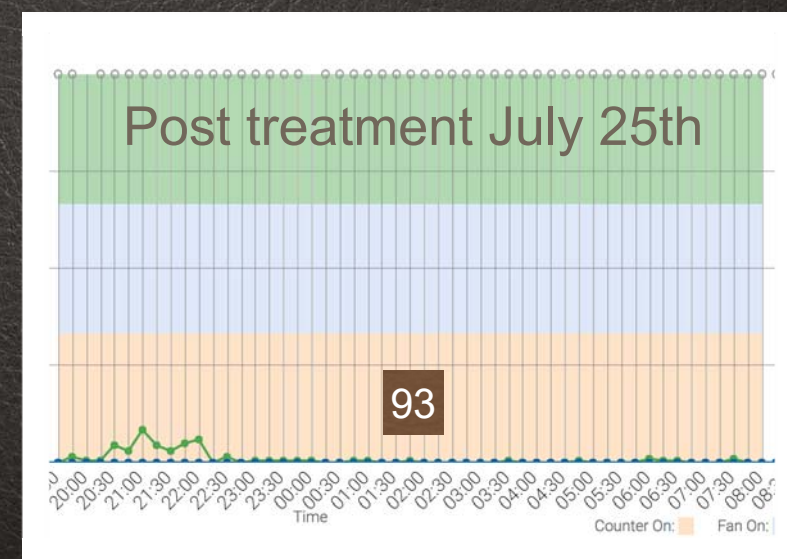
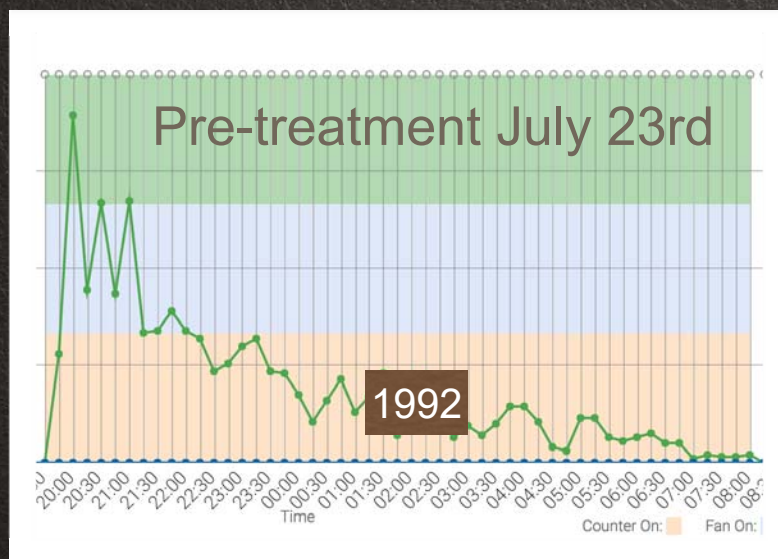
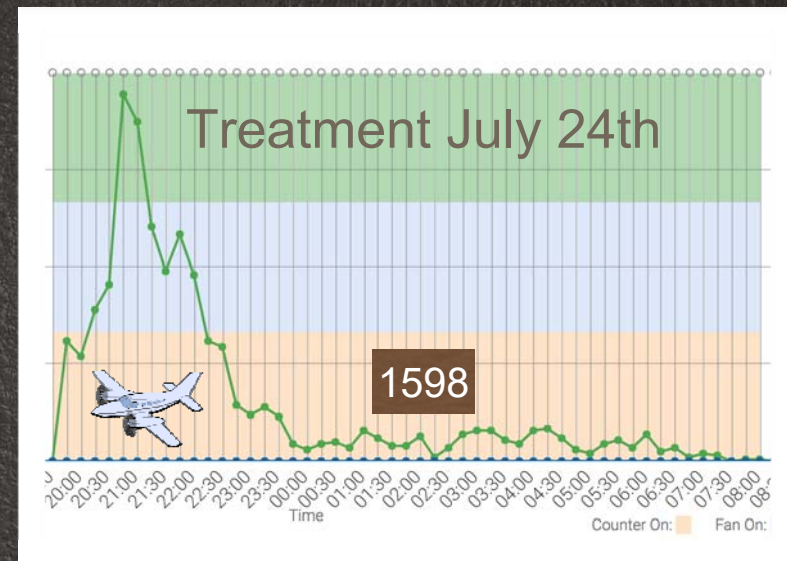
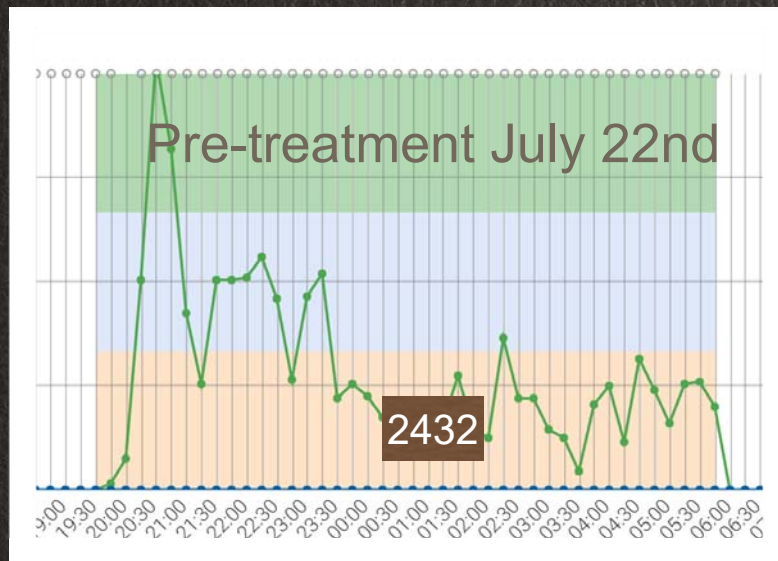


SPRAY ZONE DROPLETS

BG-Counter & Aerial Efficacy



BG-Counter & Aerial Efficacy



BG-Counter Evaluation

- Effectively counts mosquitoes in inverted position
- Great tool for monitoring aerial mosquito efficacy
- Abundance of information available to help analyze mosquito activity and performance of insecticides

BG-COUNTER EVALUATION

- Effectively counts mosquitoes in inverted position
- Great tool for monitoring aerial mosquito efficacy
- Abundance of information available to help analyze mosquito activity and performance of insecticides



Special thanks for your
help with this project

MICHAEL WEBER

Biogents BG-Counter Development Team









SAHARAN DUST FROM AFRICA

July 17-24, 2017

