

First Impressions of the BG Pro

Nathaniel Nagle, ACE
Environmental Program Manager
Prince William County Mosquito and Forest Pest Management

- What is the BG Pro
- Initial thoughts and what we could use it for
- Brief review of a comparison study
- Pros and Cons
- Future



Outline

The BG Pro



- Designed as a modular trapping system
 - EVS, CDC, and Sentinel
 - "...you will be able to create new styles with the modular system and optimize your BG-Pro to your needs..."
- Parts are similar design and quality to BG
 Sentinel Traps
- Priced in the same range as CDC traps and BG Sentinels

BG Pro – A Closer Look



- CDC-style configuration
 - Comes with the 'hat'
 - LED light strip
 - Catch bag above the fan
 - Battery storage on the trap





Notable Design Features

O TV S AND THE STATE OF THE STA

- Aggressive 3 blade fan
- Closing hatch
- Power bank instead of traditional battery







Our Initial Thoughts/Uses



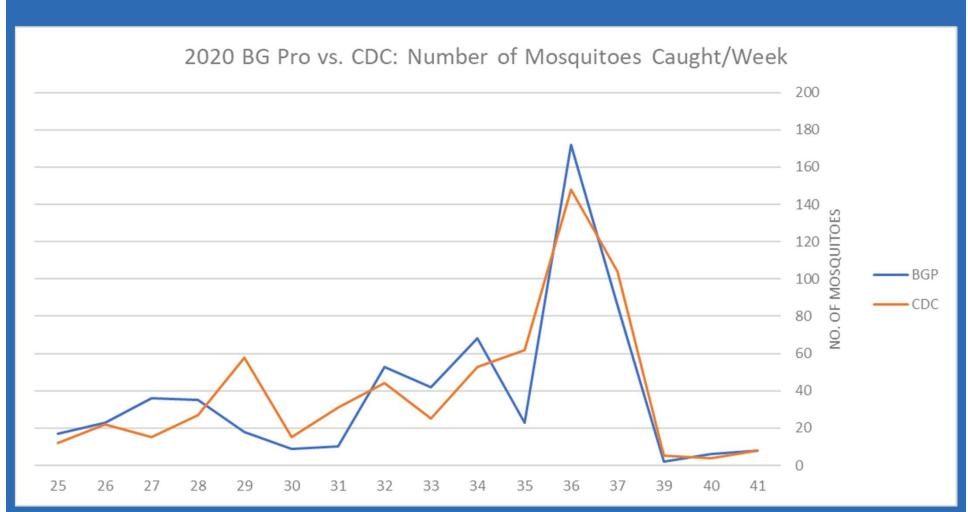
- Modular design would allow field staff to configure trap type on the fly
- Save on battery charging time and space
- Have on hand as extras to configure if we get low on other traps throughout the season

We Tested It

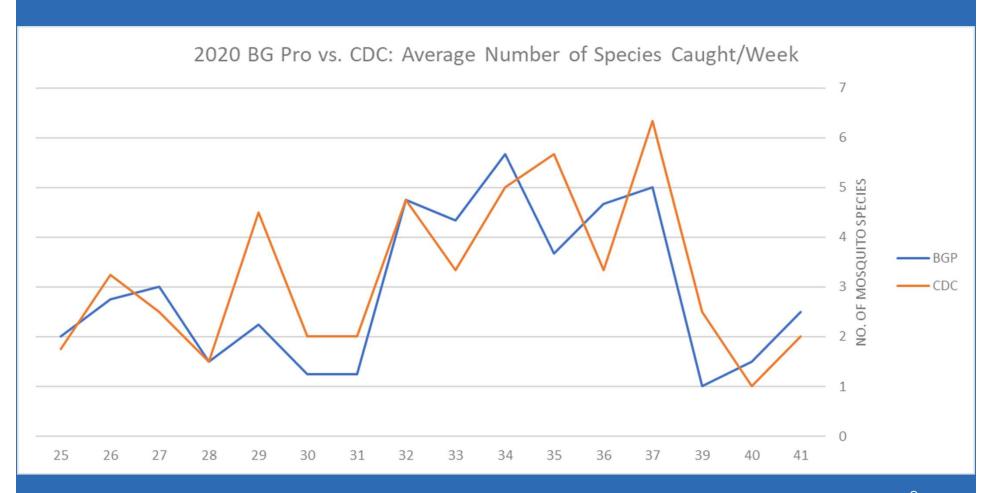


- 1:1 test trapping against a CDC Light Trap
- Baited with CO₂ and light
- BGP and CDC set together at the same location for ~24 hours
- 4 trapping locations
- June October









Final Numbers



BG Pro

- 608 total mosquitoes
- Average 11.5 mosquitoes/week
- 24 different species
- Average 2.9 different species/week

CDC Light

- 633 total specimens
- Average 11.9 mosquitoes/week
- 23 different species
- Average 3.2 different species/week

Pros and Cons



Think of it more of a "give and take"

Pro: Catch bag before the fan and functional trap door to minimize escaping mosquitoes

Con: Its cumbersome to set up and the LED light bar doesn't have a place to attach

Pro: Long lasting, lighter, easier to use power bank battery source

Con: There is an absolutely OPPRESSIVE amount of bicatch – probably from the LED

Pro: Modular design allows for several quick, flexible configurations

Con: The different configurations work well but not as well as a trap made in that design

Future



- More field tests in general to see what the long-term durability is
- Troubleshoot some hiccups with the batteries and traps shutting off
- Test different configurations and/or try out some new ones



Acknowlegements:

Ciro Monaco Eli Hosen Madeline Moore Francis Valera

Questions?

Nathaniel Nagle, ACE 703-792-5737 nnagle@pwcgov.org