

# A Different Sprayer



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What we used in 2018...



## ARRO-GUN Spray System BULLET Model B007

A 4-cycle gas powered handheld spray unit

It did the job...but we found something a little different

What we found was the...



**LONGRAY Handheld Sprayer**

# Not the same sprayer...

**ARRO Gun Bullet Sprayer**



- Gas powered, possible spills
- Holds approximately 16 oz. of pesticide
- No strap

**LONGRAY Handheld Sprayer**



- Battery operated, safer
- Holds approximately 64 oz. of pesticide
- Removable strap

## More information:

### LONGRAY Handheld Sprayer:

- It is a handheld adulticiding fogger
- Battery operated
- Weighs 8.25 lbs. empty
- Battery weighs 4.2 lbs.
- Holds approximately 64 oz. of liquid pesticide
- Weighs approximately 18.12 lbs. with battery and pesticide
- Personal Protective Equipment Required
  - Always read the label...Goggles, ear plugs, face mask, gloves, long sleeve shirts, long pants to cover skin
- Can not be used with granules
  - It's only for liquid adulticides (water or oil based)

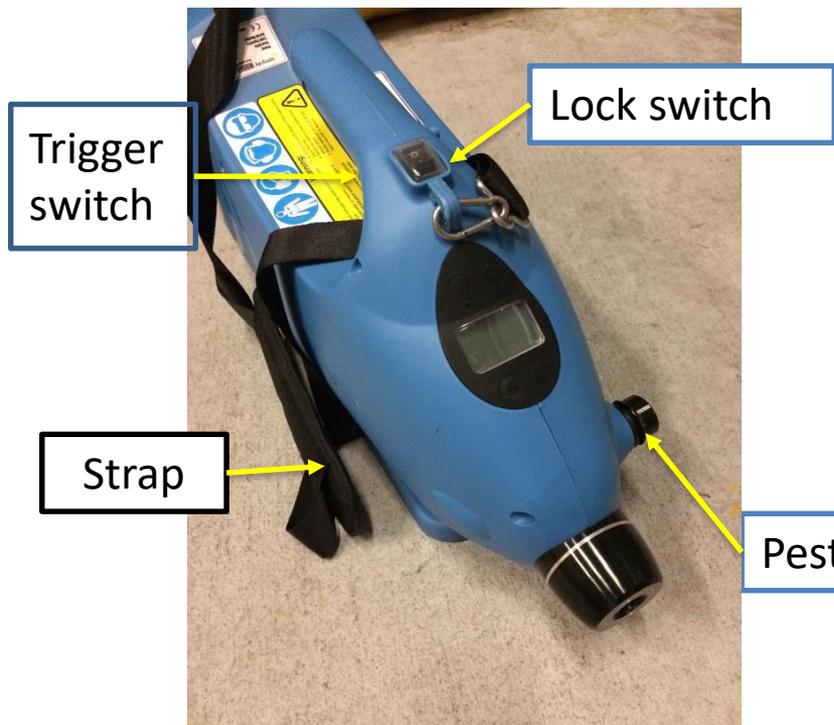




Let's take a look...

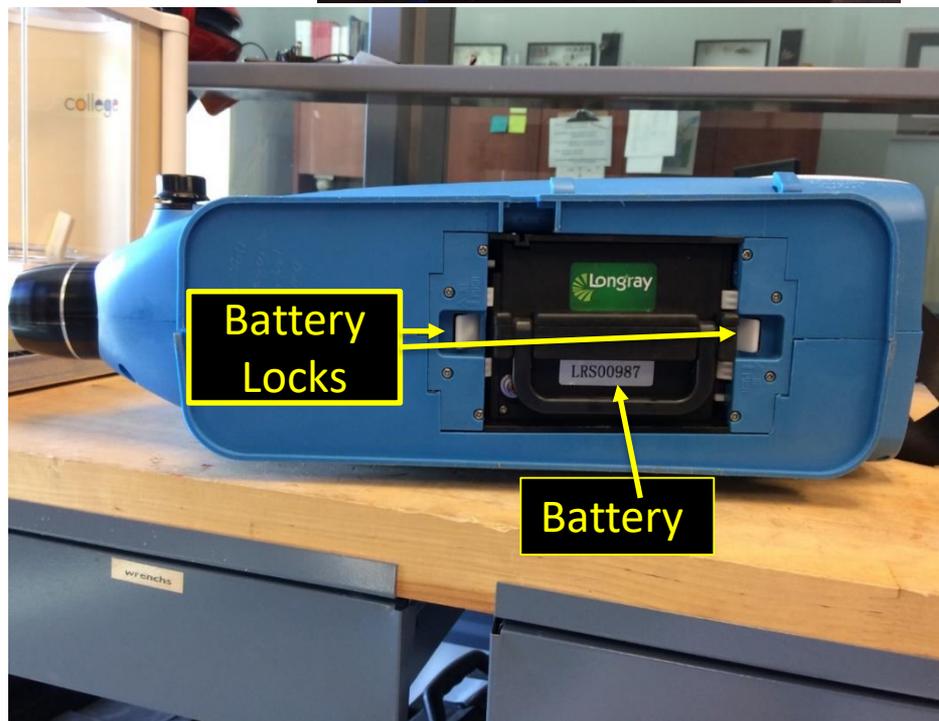
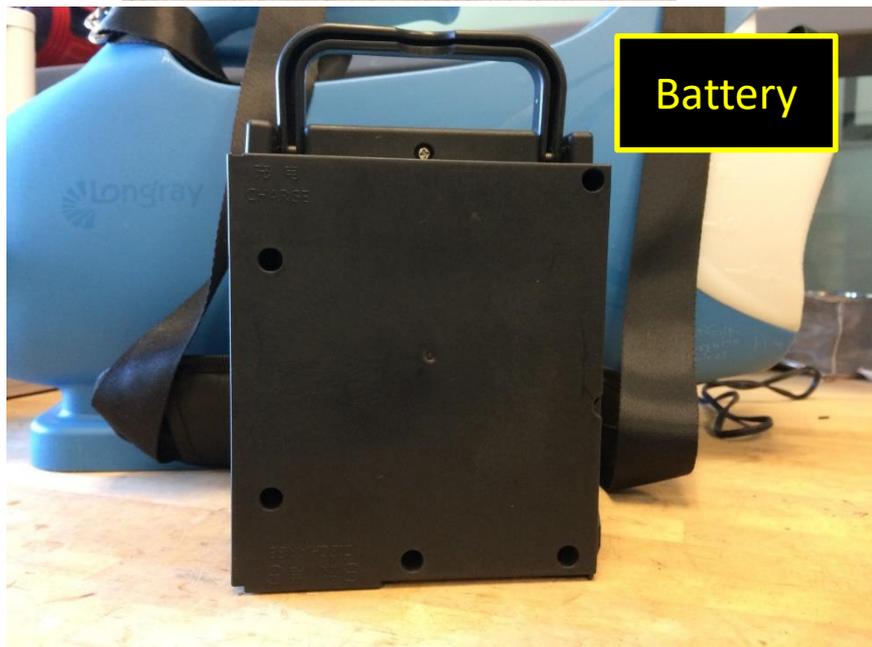
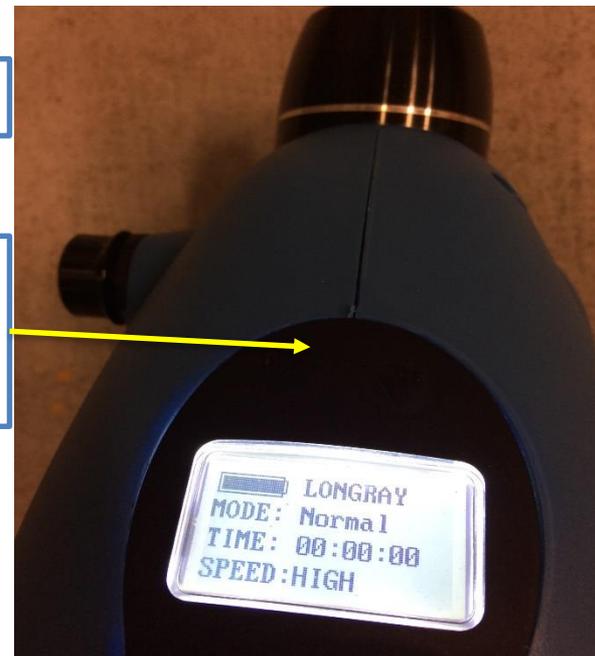


Pesticide reservoir holds approximately 64 ounces of liquid pesticide, battery lasts about an hour.



Finger switch

Push button to activate spray



# Trap – Spray – Trap Study:

- **Sites**
  - **Chuckatuck, and Pleasant Hill for the Trap - Spray – Trap Study**
- **A threshold**
  - When the numbers reach or exceed 300 *Aedes albopictus* (male and female total) in a trap, then that site would go on a handheld spray list
- **Spray applications**
  - Chuckatuck was usually a one person area approximately .27 mile
  - Pleasant Hill usually a two person team area approximately 1.36 mile
- **Pesticide used**
  - Duet – active ingredients prallethrin and sumethrin that agitates mosquitoes to take flight and kills them in the open.
- **What would the results show**
  - Let's take a look at what we found

# BG Sentinel traps were set at Chuckatuck and Pleasant Hill sites

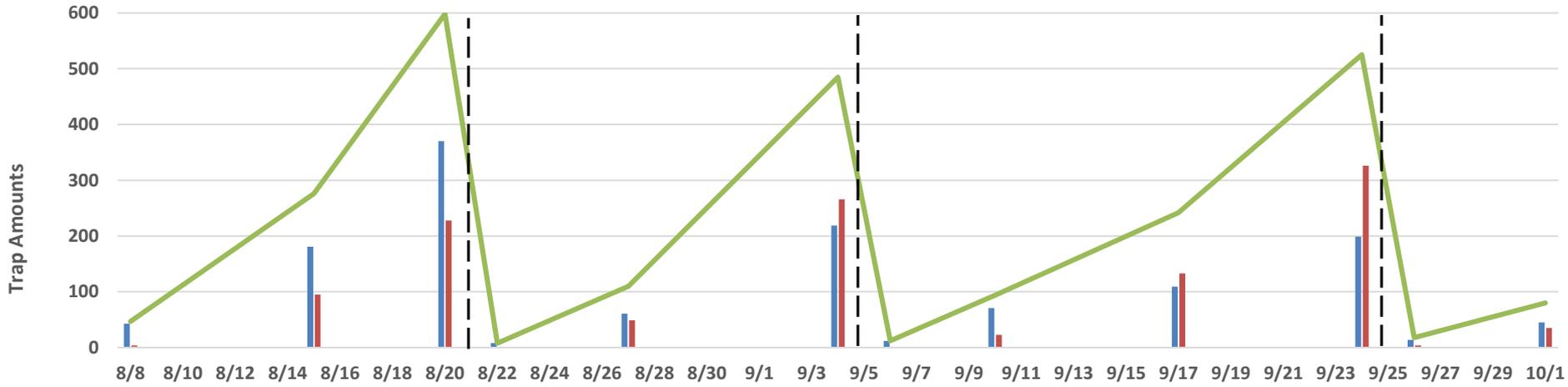


- BG Trap
- BG Lure (inside)
- 12 V Battery
- CO<sup>2</sup> Tank

# Chuckatuck Trap Site



# Chuckatuck Trap Site



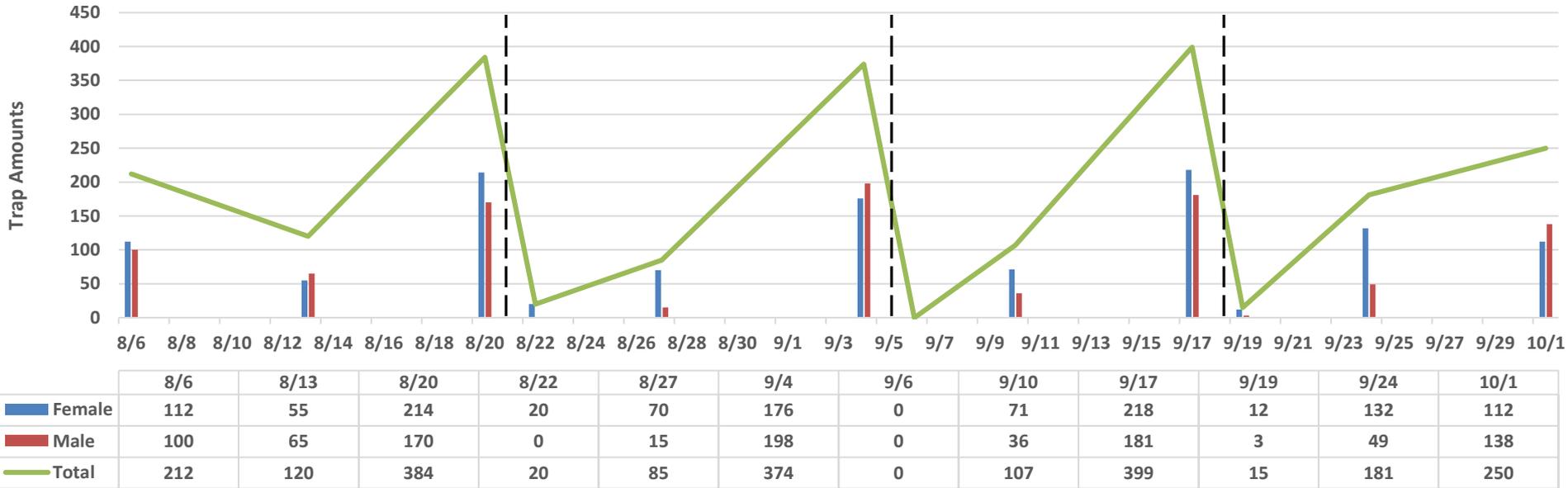
	8/8	8/15	8/20	8/22	8/27	9/4	9/6	9/10	9/17	9/24	9/26	10/1
Female	43	181	370	8	61	219	12	71	109	199	14	45
Male	4	95	228	0	49	266	0	23	133	326	4	35
Total	47	276	598	8	110	485	12	94	242	525	18	80

---Indicated spray dates

# Pleasant Hill Trap Site

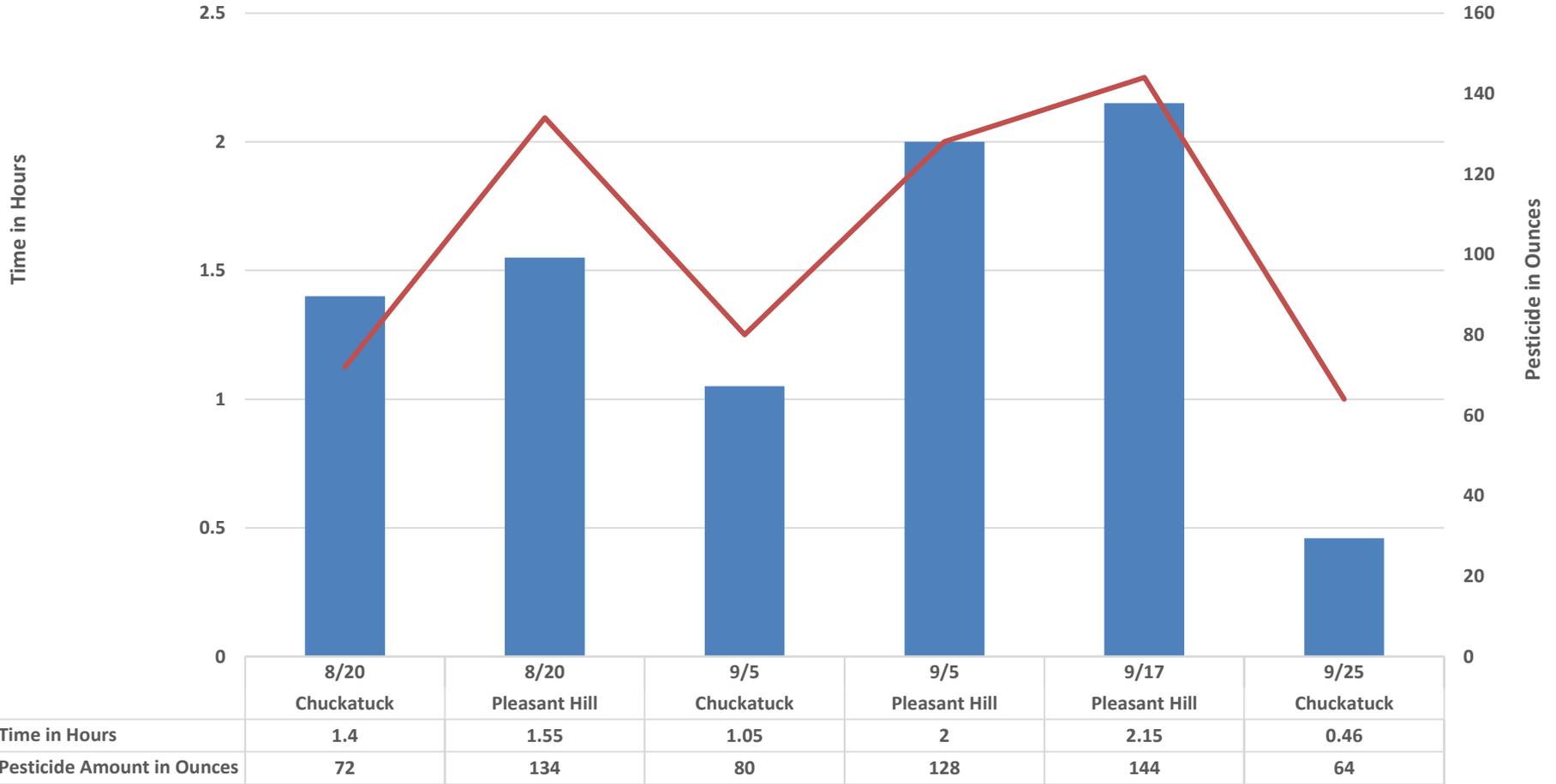


# Pleasant Hill Site



--- Indicates spray dates

# Time & Pesticide



## What are the pros...

- Starting the sprayer isn't difficult
- Operates easily
- It comes out in a mist for better viewing the direction of spray
- It comes with a lock switch for better operation, easy on the trigger finger
- Battery operated so no messing with gas
- Strap for carrying comfort that can be easily removed, should you not want it



## Now let's look at some of the Cons...



- It really gets heavy after about 15 – 20 minutes into the spraying
- Bulkier (heavier) so you have to hold it closer to your body
- Wear all the required PPE, plus **extra**, your skin should be covered because you will walk in to the spray, you want to protect your skin
- Summertime heat
- Battery last about 45 minutes to an hour
- Having to remember to take a extra battery
- If not properly shut down, unit will leak ( which should be done anyway)

# In Conclusion:

- As noted only 2 trap sites were used in this presentation, and both were treated with the, LONGRAY Handheld Sprayer
- Can get to more concentrated areas than truck mounted sprayers
  - Dense wooded areas
- Plans are to use it on more sites furthering the study next year, possibly a trap spray trap of tire centers... who knows where this might lead...



Thank you!  
Questions?

# Acknowledgements

## Suffolk Mosquito Control Team

- Charles Abadam
- Richard White
- Jay Kiser
- Cassidy McKelvie
- Kaitlyn Price
- Junior Harrell
- Ann Herring
- Alex Riley
- Karen Akaratovic

