

# The BG-Sentinel Trap



Presented by Kirby Foley

# BG–Sentinel Trap

- Developed and manufactured by BioGents in Regensburg Germany [www.biogents.com](http://www.biogents.com)
- Sold here by BioQuip [www.bioquip.com](http://www.bioquip.com)
- Developed over 15 years of research
- Originally designed to attract *Aedes aegypti* and *Aedes albopictus*

# Assemble Trap



# BG–Sentinel Trap

- Mimics convection currents created by a human body
  - The BG-Lure consists of a combination of ammonia, lactic acid, and fatty acids (substances on human skin)
- Employs attractive visual cues
  - Uses the black and white color scheme
- Releases attractants through a large surface area
  - 14 inch diameter area covered by gauze

# Power Supply

- Power supply can be 120 AC or 12 volt battery
- Using the transformer and extension cord you can trap 24 / 7 ...let it function as the Mosquito Magnet type trap or just overnight.
- We trapped 2 PM to 7 AM and used 12 volt battery

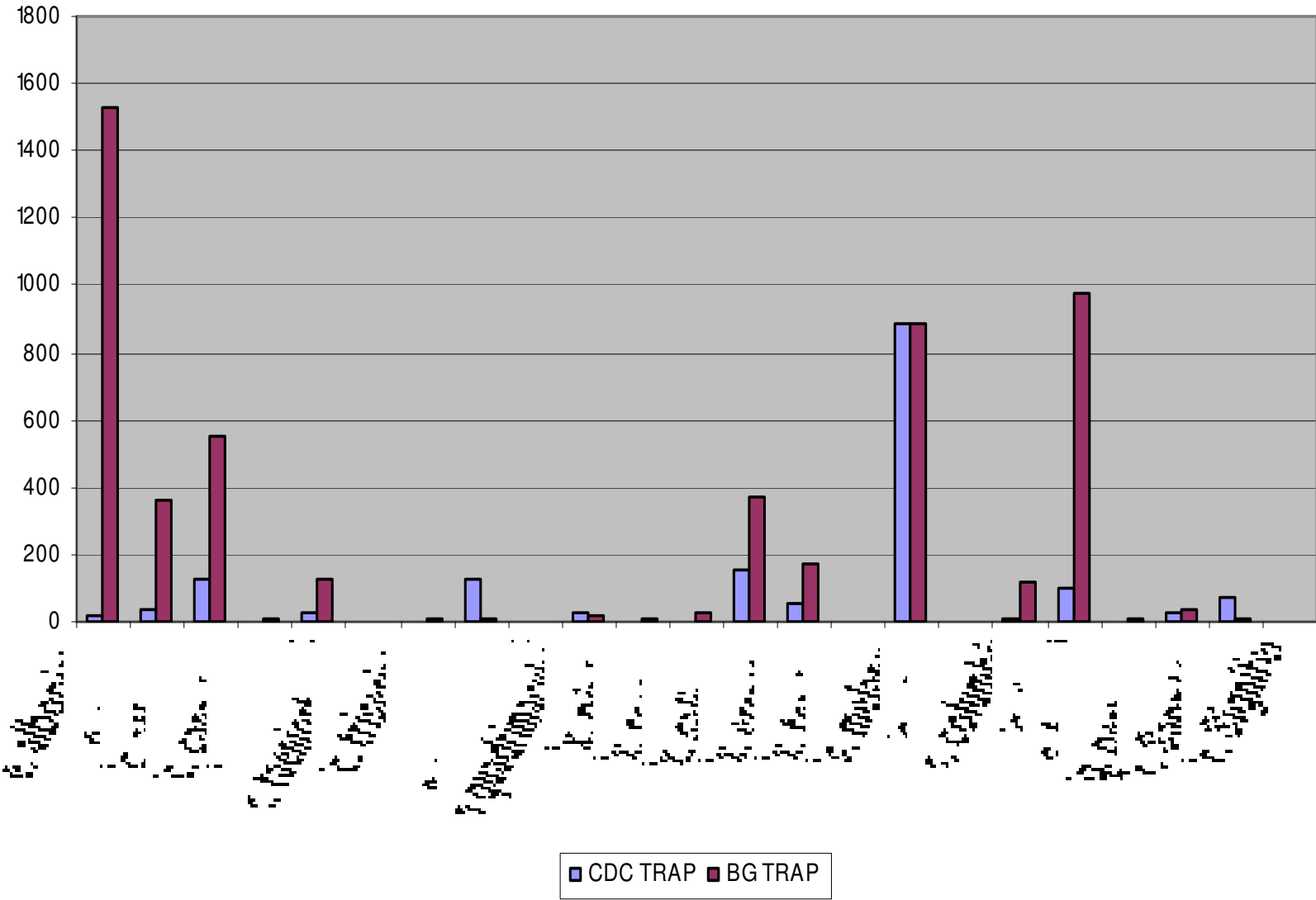
## BG–Sentinel Trap

- We received and started setting two traps in mid August
- We set a total of thirty-six nights
- 21 nights we set a BG-Sentinel and a CDC trap side by side for comparison (baited with CO<sub>2</sub>)
  - The following slides will show the results:

Comparison of BG and CDC Traps

Species	CDC Trap	BG Trap	% BG / CDC
<i>Ae. albopictus</i>	19	1525	80.26
<i>Ae. vexans</i>	33	363	11.00
<i>Oc. atlanticus</i>	131	556	4.24
<i>Oc. canadensis</i>	1	12	12.00
<i>Oc. infirmatus</i>	31	128	4.13
<i>Oc. taeniorhynchus</i>		1	1.00
<i>Oc. triseriatus</i>	1	8	8.00
<i>An. crucian</i>	126	10	0.08
<i>An. punctipennis</i>	0	1	
<i>An. quadrimaculatus</i>	24	18	0.75
<i>Cx. pipiens</i>	2	12	6.00
<i>Cx. restuans</i>	3	25	8.33
<i>Cx. salinarius</i>	158	369	2.34
<i>Cx. erraticus</i>	51	176	3.45
<i>Cx. territans</i>	4	3	0.75
<i>Cs. melanura</i>	882	884	1.00
<i>Ps. ciliata</i>	0	1	
<i>Ps. columbiae</i>	9	114	12.67
<i>Ps. ferox</i>	103	979	9.50
<i>Ps. howardii</i>	2	9	4.50
<i>Cq. perturbans</i>	23	38	1.65
<i>Ur. Sapphirina</i>	70	7	0.10
<i>Or. Signifera</i>	0	1	
Males	97	236	2.43
Total Females	1674	5240	3.13
Total Mosquitoes	1771	5476	3.09

# COMPARISON of CDC TRAP to BG TRAP

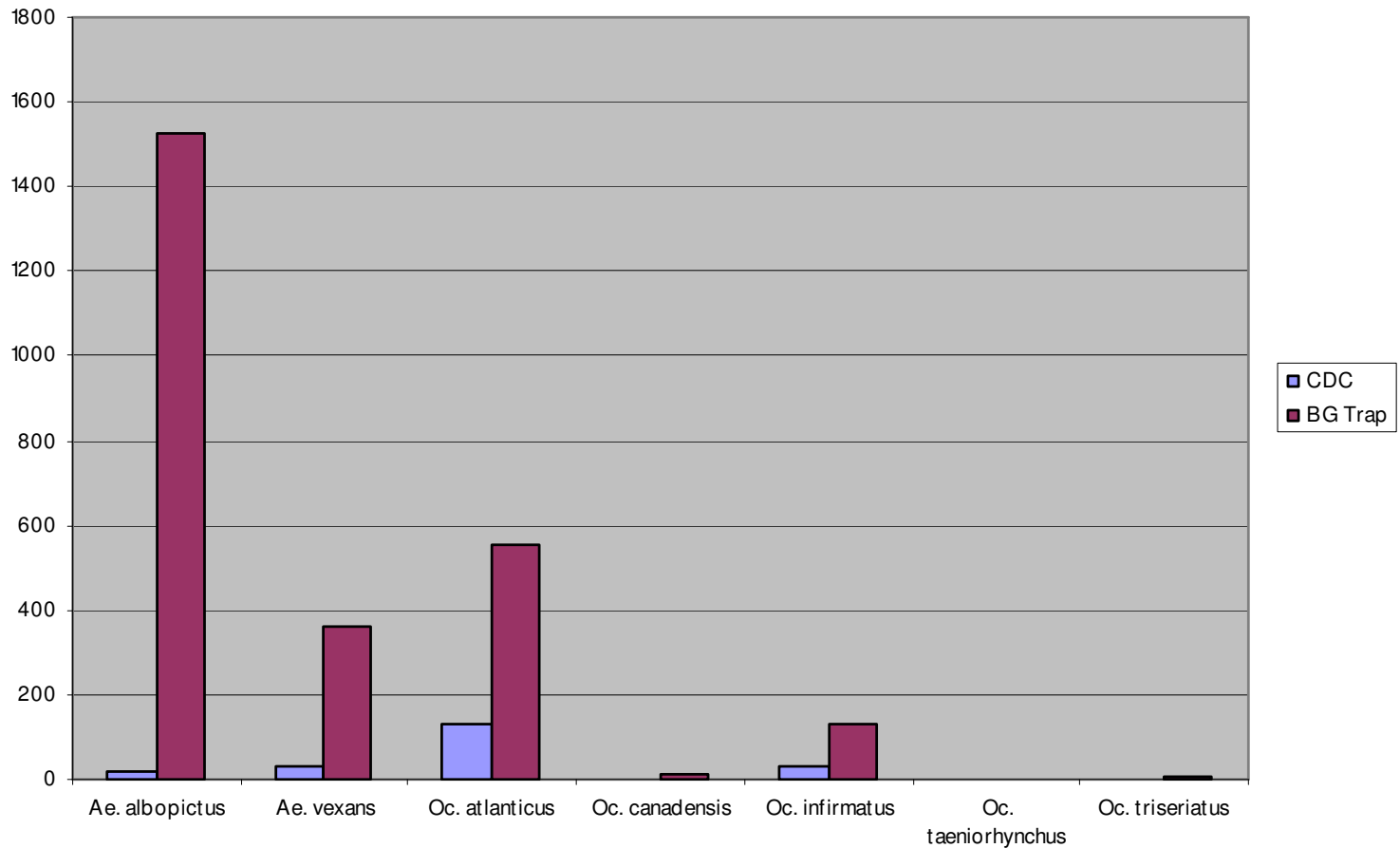




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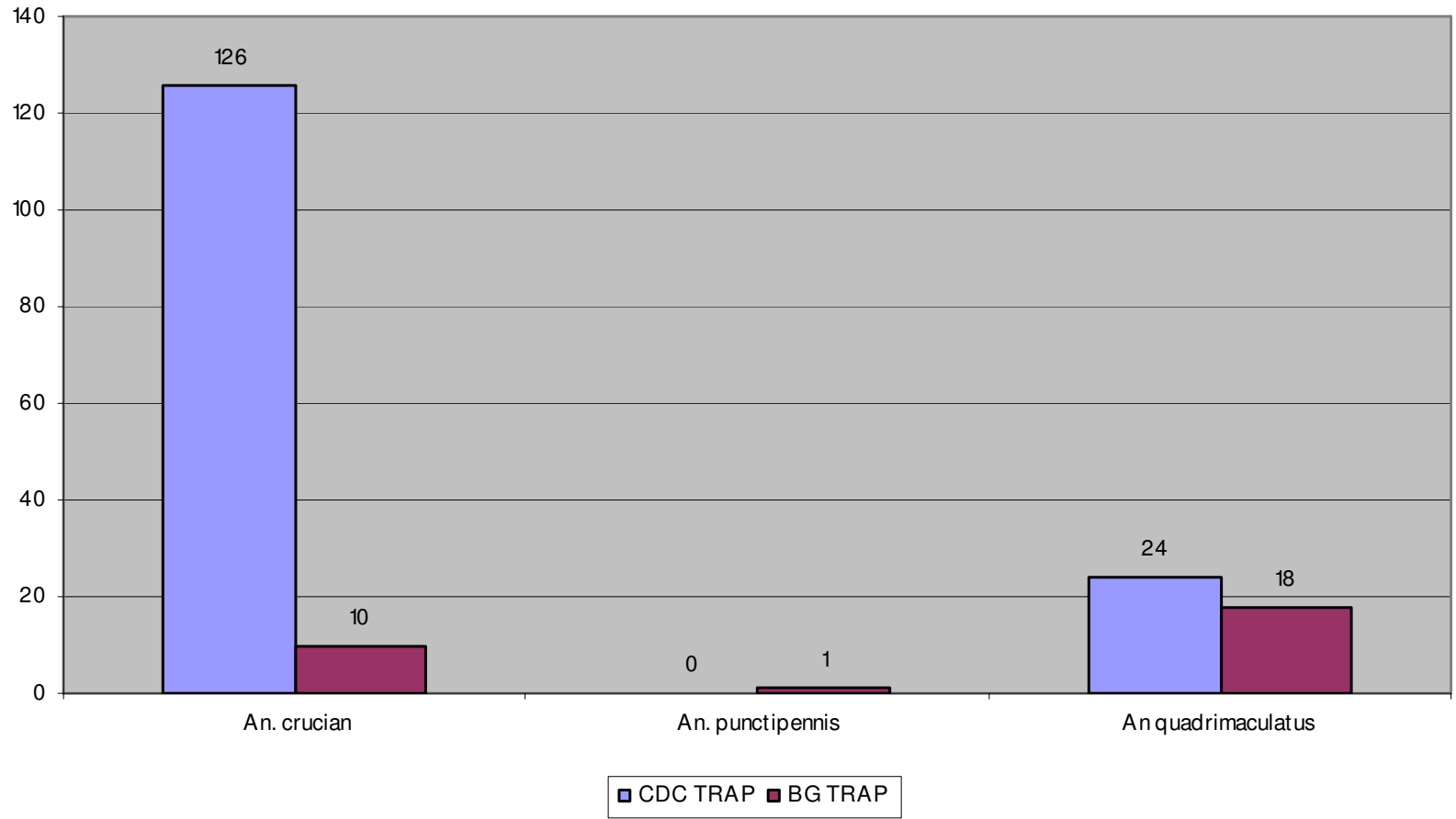
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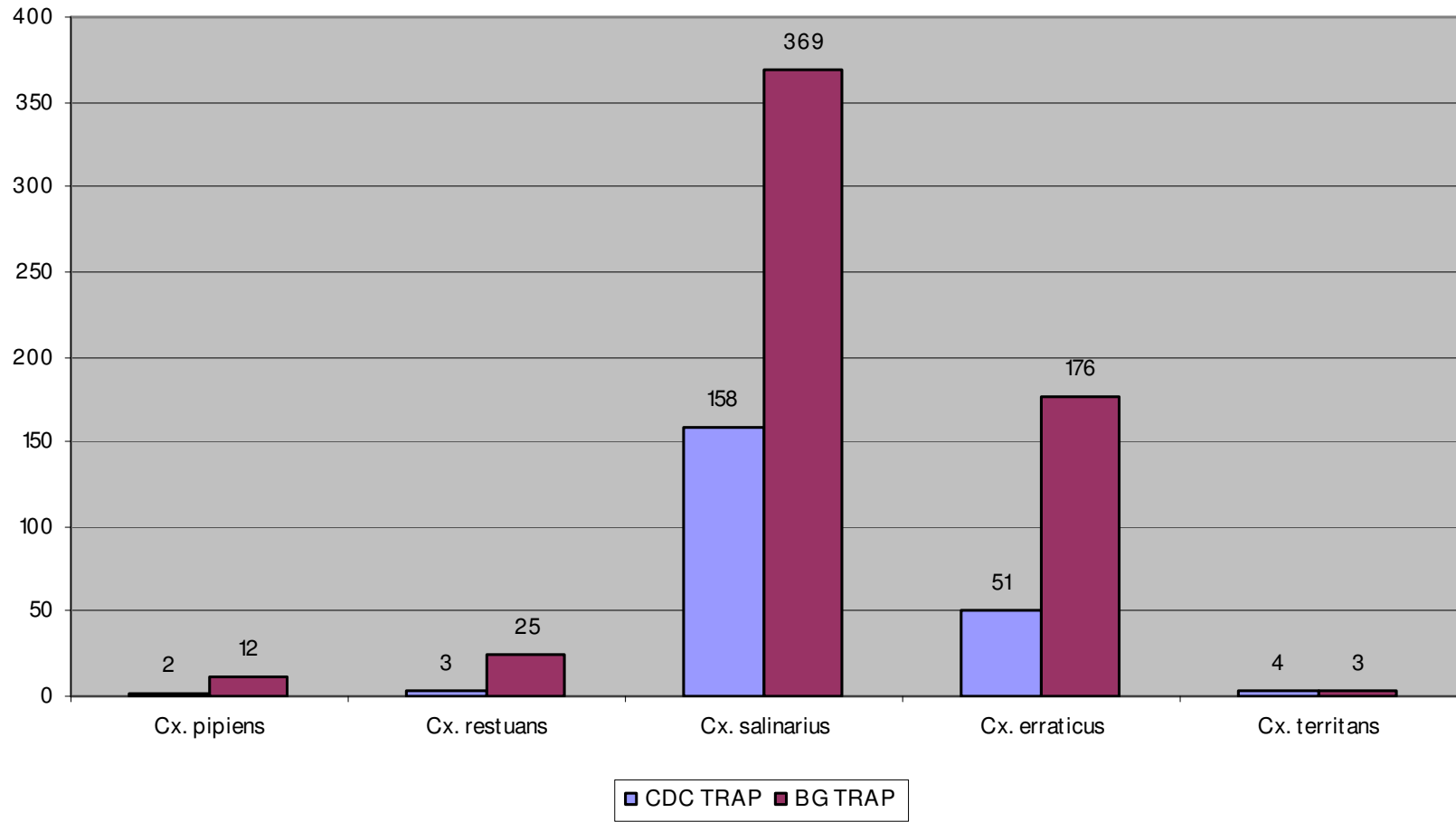
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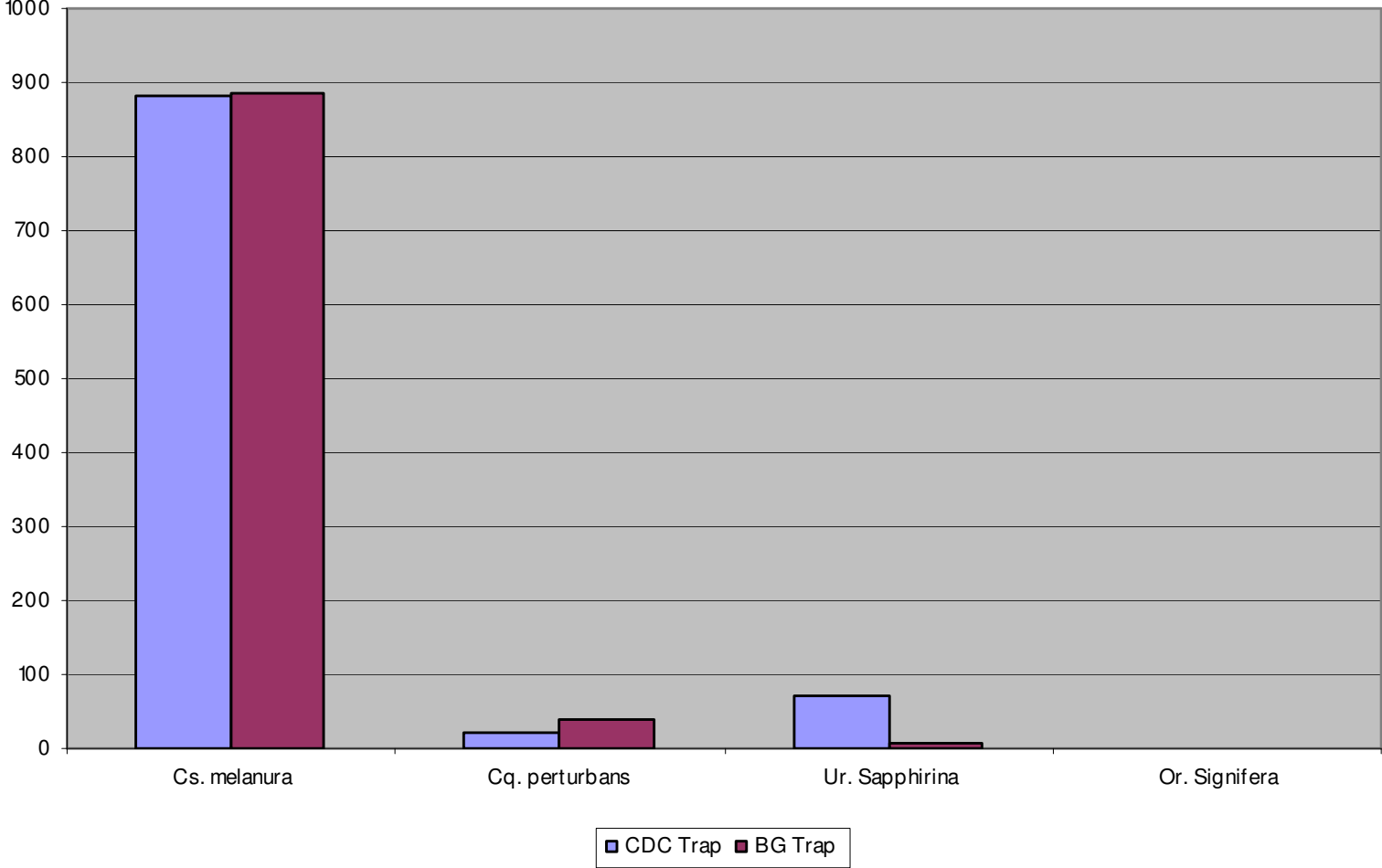
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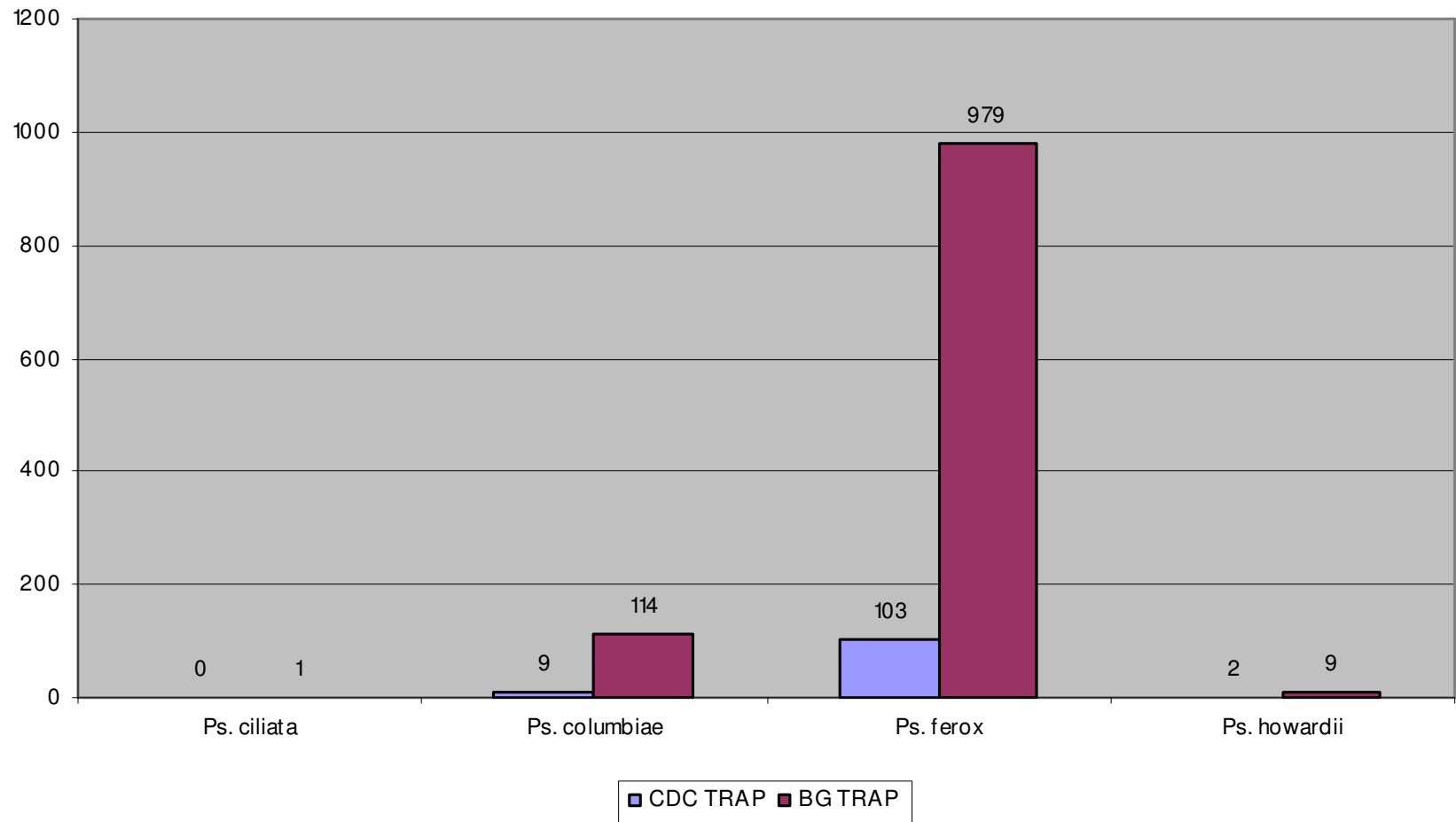




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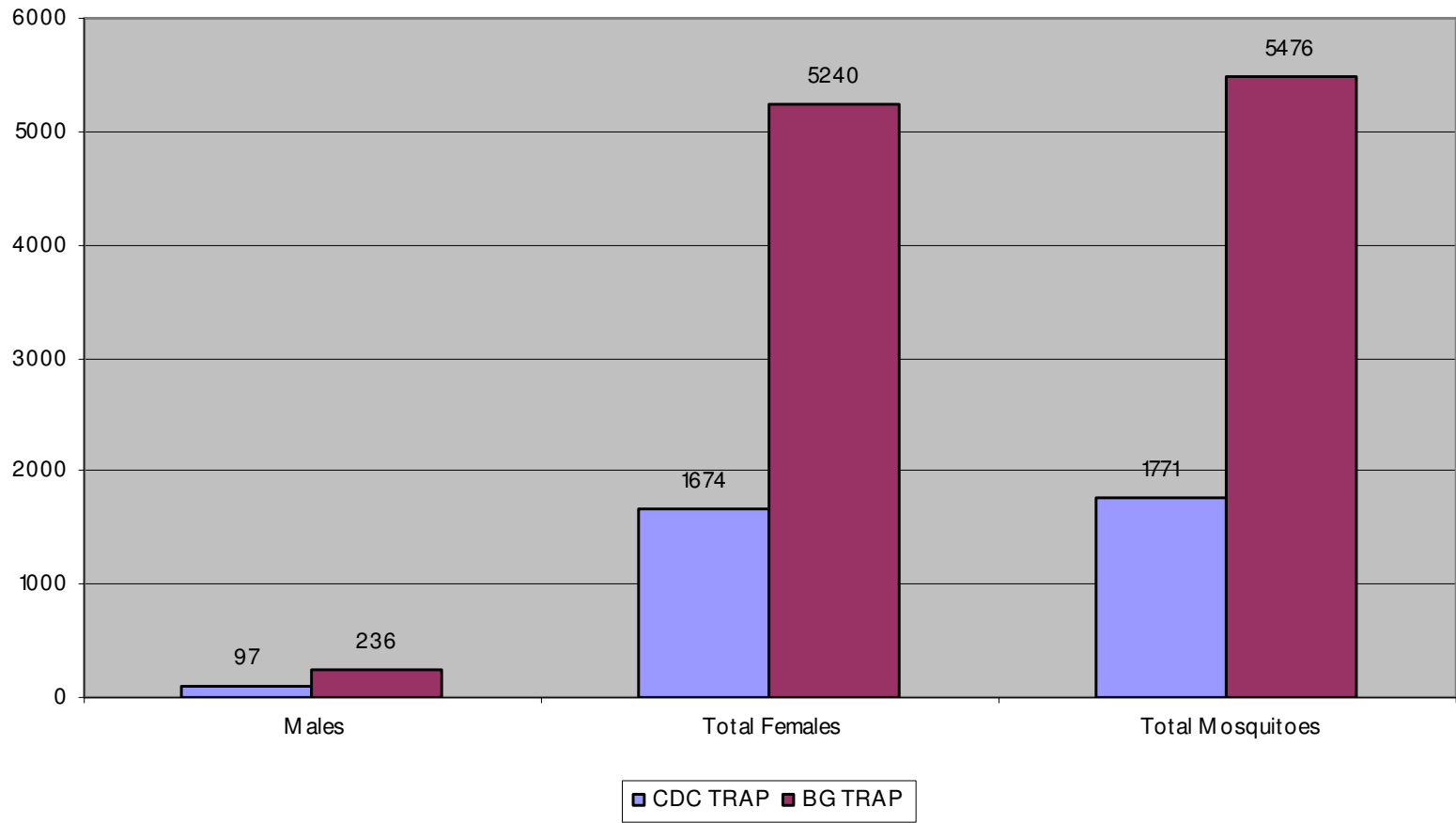
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### COMPARISON of CDC TRAP to BG TRAP



## BG-Trap Results

- More *Ae. vexans*, *Ochlerotatus*, *Culex*, *Coquillettidia*, and *Psorophora* with CO<sub>2</sub>
- 80 times more *Aedes albopictus*
  - We trapped 631 in one setting of one trap
  - *Ae. vexans* and *Ps. ferox* really increase with use of CO<sub>2</sub>
- Equal number of *Culiseta melanura* (w/CO<sub>2</sub>)
- Less *Anopheles*, *Cx. territans*, and *Ur. Sapphirina* in BG-Sentinel

# Results

- BG trap will average 300% more than CDC
- BG Trap with CO<sub>2</sub> will average 34% more than BG Trap without CO<sub>2</sub>
- The BG-Sentinel Trap is a very good tool to have in your surveillance program

# The End

