

# TEVIGO ELECTRIC TABLE FAN (FLIEGEN WEDLER)- FLY REPELLER

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DEMONSTRATION AND VALIDATION

**August 2017**

*Prepared by  
Stacy D. Rodriguez & Immo A. Hansen  
New Mexico State University  
Las Cruces, NM*

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## OBJECTIVES

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- Testing the efficacy of one Tevigo table fan (Fliegen Wedler) in repelling *Musca domestica* (house flies).

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## APPROACH

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In a 12 m<sup>2</sup> room, two table fans were placed on two adjacent tables. A cup containing a fast killing fly bait (Quickstrike, STARBAR) was placed on sticky paper next to the fan (see Figure 1). The fan was switched ON in the experimental groups and OFF in the control groups. Adult *Musca domestica* were released in the room. The number of flies in the cups and on the papers were recorded and compared after 24 hours.

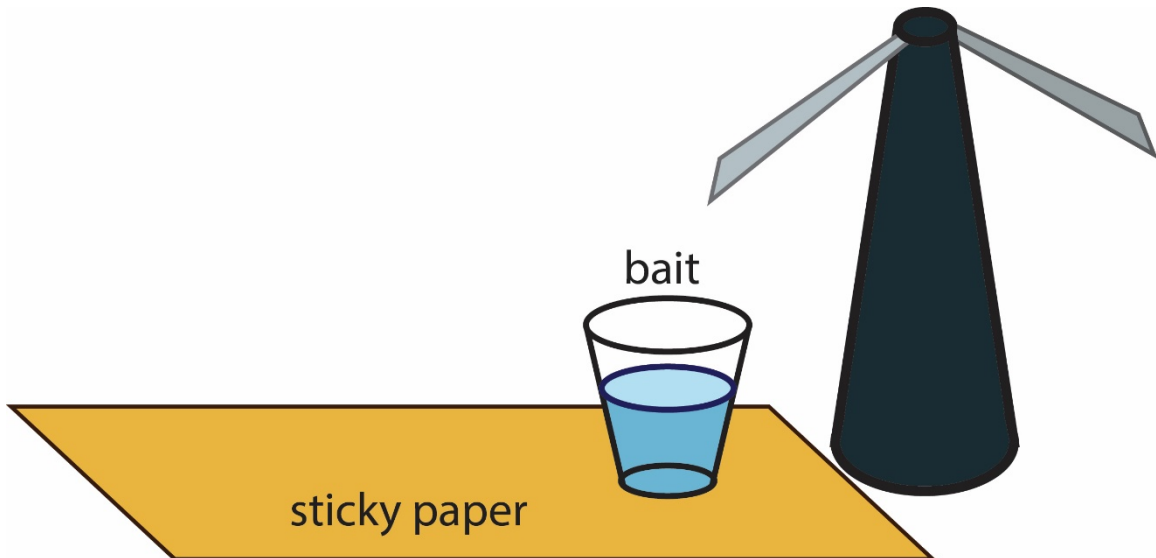


Figure 1. Testing scheme for electric table fan.

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## MATERIALS AND METHODS

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*Mortality assays:*

### Experimental Parameters

- Three biological replicates
- Three fly fans were provided by the client.
- The control was a fan in OFF setting.

### Protocol

1. The experiment was set up as shown in Figure 1.
2. Flies were released in the room.
3. After 24 hours the number of flies in the cups and stuck on the sticky paper was determined.

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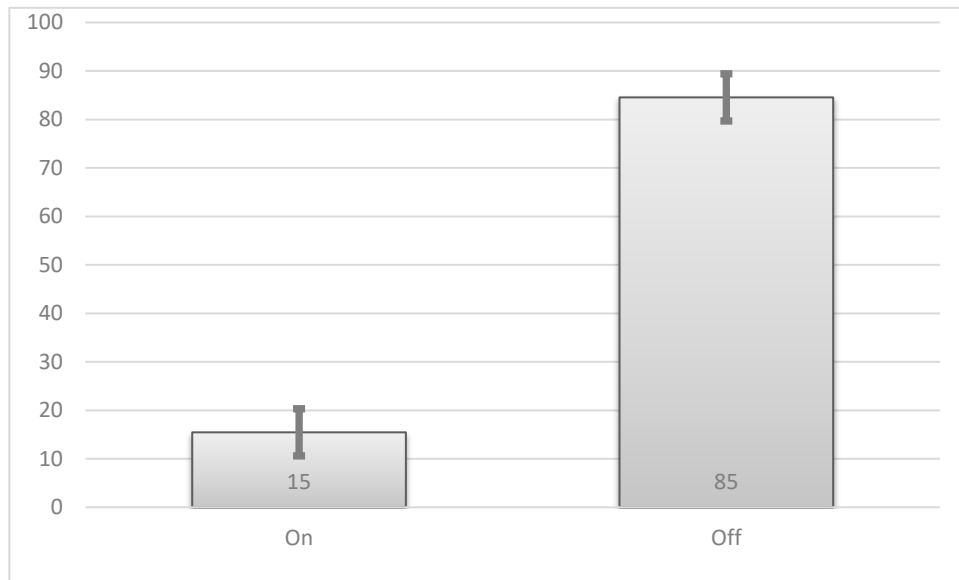
## RESULTS

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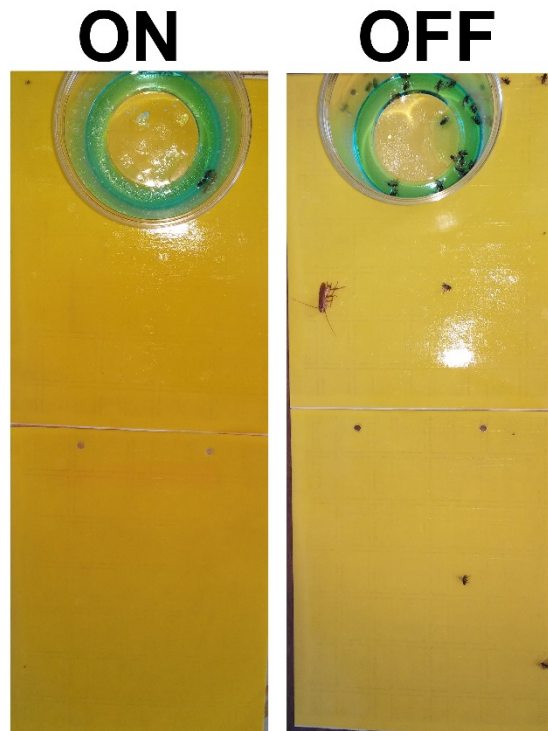
**Table 1. Fly catch rates in percent in individual experiments**

repeat #	On	Off
1	22	78
2	6	94
3	19	81

**Figure 2. Average percentage of total flies caught under ON or OFF conditions.** Statistical analysis of the data (two-paired T-test) confirmed that the difference between ON and OFF groups is highly significant.



**Figure 3. Typical result pattern found in these experiments.**



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## **DISCUSSION**

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The Tevigo table fan worked as advertised. Fly catch rates when the fan was in the ON setting were approximately one fifth of those when the fan was in the OFF setting. We found a significant reduction of catches when the fan was rotating.

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## **RECOMMENDATIONS**

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We have currently no recommendations since the product is an effective repellent for *Musca domestica*.