

**Evaluation of The Original Waspinator Device
when Exposed to Wasps Under Field Conditions**

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Objectives:

1. To determine the efficacy of The Original Waspinator by That Marketing Ltd. when exposed to various species of wasps, hornets, and bees under field conditions.

Treatments:

1. Control – No Device Installed (1 site) to gauge natural wasp activity in area
2. Original Waspinator (2 sites – 4 devices/site) to monitor Waspinator performance

Materials and Methods:

The following is the Snell Scientifics Standardized Testing Method for evaluating the efficacy of particular devices designed to repel or deter flying insects in outdoor locations. Select action items and illustrations have been removed from this standardized test method in an effort to make the report more precise and accurate to the test conducted. Any details removed from this test method were deemed irrelevant to the test conducted in this report.

Materials:

- Field locations for setting up lures to establish feeding activity by wasps. A minimum of three (3) locations are needed but may be more according to the requirements of the test.
- Appropriate numbers of devices for each feeding location.
- Appropriate numbers of lure containers, usually consisting of plastic tubs with holes to allow insects to enter and feed.
- A variety of lure materials, usually consisting of pieces of fruit and sweet liquids.
- Hanging posts to suspend the lures and devices to be tested, inserted into the ground at various locations.
- Digital camera to record set up details.
- Log sheets to record observations.
- Countdown timers to judge observation intervals.

Methods:

Stage 1 series:

- 800ml plastic containers are prepared for the lures by cutting 1” round holes on opposite sides of the containers. (Photograph 1)
- Metal posts with a hook are placed at monitoring locations selected as probable sites for insect activity. (These may be moved throughout the pre-test monitoring period to assure insect attraction.)
- Lure materials, consisting of pieces of fruit and sweet soft drinks, are added to the lure containers and are suspended from the metal hooks.

- Lure locations are monitored 3x daily at intervals of 1-2 days. Observations are 10 minutes in length for each location and any activity is noted. Lure materials are refreshed at regular intervals to insure that an ample supply of lure is always present.
- If there was no apparent activity at a site for several pre-treatment observation intervals consecutively, the monitors were moved to other locations.
- When activity had been established at 3 locations, they are designated as “Control Site #1”, Site #2, and Site #3. The last 2 sites, become the test sites.
- Four Waspinator devices are installed at both Site #2 and Site #3 in all 4 directions from the lure, at ~15 ft distances from the lure locations at the four cardinal points of the compass (N,S,E,W). No Waspinators are placed at control locations. (Photograph 1).
- Monitoring is done 3x daily at 1 hour intervals for 10 minute observation periods.
- Observations are recorded of any activity by wasps at the lures, and where possible, the direction of approach was noted.
- Included in the observations are ambient temperature and relative humidity.
- Observations are recorded over a 5 day period until results are obtained showing definite repellency of wasps by the Waspinator devices.
- At that time, all Waspinator devices are removed until wasp activity returned to the test locations. (this was a 2 day period with the same observation intervals as during the repellency tests).
- Once wasp activity resumes at all locations (Control Site #1, Site #2, and Site #3), four (4) Waspinator devices are re-installed at the test sites (Site # 2& #3) to confirm the observations on repellency.
- One observation interval is used to record data for this portion of the test.

Results / Discussion:

Table 1 shows the pre-test monitoring data used to establish the activity levels at the various monitoring locations. Table 2 shows the effect of 4 devices when placed at the four compass points surrounding the attractant lure. Although it took 2 days to become completely effective, all wasp activity at the sites with devices halted after that time, even though insects continued to frequent the control site. To further affirm the effectiveness of the device, the Waspinator was removed from the test sites until insect activity was re-established (Table 3). The devices were then re-installed at the test sites resulting in the elimination of insect activity at the test sites the same day (Table 4). The data from this test shows that the Original Waspinator will deter or repel wasps from an attractive area.

Tables:

Table 1.

| Activity Observed at Lure Locations for ~ 3 weeks Prior to Start of Testing To Establish Activity at Test and Control Sites | | | | | | | | |
|---|-------|-------|-------|--------|---------------------------------|--------|-----------------|-----------------|
| Date | Day 1 | Day 4 | Day 6 | Day 10 | Day 12 - Move location of lures | Day 14 | Day 18 | Day 20 |
| Location # | | | | | | | | |
| Control-- Site 1 | N | N | N | N | N | N | Y-NORTH 8 wasps | Y-NORTH 7 wasps |
| Site 2 | N | N | N | N | N | N | Y-NORTH 5 wasps | Y-NORTH 8 wasps |
| Site 3 | N | N | N | N | N | N | Y-NORTH 4 wasps | Y-NORTH 3 wasps |

Table 2.

| Activity at Test and Control Sites w/ 4 Original Waspinator Devices Installed at Each Site ~15 ft from Lure at 4 Cardinal Points of Compass (N,S,E,W) Monitored 3x per Day | | | | | | | | | | |
|--|-------|-------|--------|-------|-------|--------|-------|-------|--------|-------|
| Date | Day 1 | | | Day 2 | | | Day 3 | | | Day 4 |
| Location # | 10 AM | 11 AM | 12 P M | 10 AM | 11 AM | 12 P M | 10 AM | 11 AM | 12 P M | 10 AM |
| Control-- Site 1 | N | N | N | N | N | N | Y | Y | Y | Y |
| Site 2 | N | N | N | N | N | N | N | N | N | N |
| Site 3 | N | N | N | N | N | N | N | N | N | N |

Table 3.

| Activity at Test and Control Sites after All Original Waspinator Devices Removed One Observation Interval per Day | | |
|--|--------------|--------------|
| Date | Day 1 | Day 2 |
| Location # | 10 AM | 10 AM |
| Control-- Site 1 | Y | Y |
| Site 2 | Y | Y |
| Site 3 | Y | Y |

Table 4.

| Activity at Test and Control Sites when Four (4) Original Waspinator Devices Re-installed-- Monitored Daily for Activity One Observation Interval per Day | | | | | |
|--|--------------|--------------|--------------|--------------|--------------|
| Date | Day 1 | Day 2 | Day 3 | Day 4 | Day 5 |
| Location # | 10 AM | 10 AM | 10 AM | 10 AM | 10 AM |
| Control-- Site 1 | Y | N | N | Y | N |
| Site 2 | N | N | N | N | N |
| Site 3 | Y | N | N | N | N |

Photographs:

Photograph 1.



Photograph 2.



Photograph 3.



Photograph 4.



Photograph 5.

