

FIGHT the MITE, *naturally.*



With **HopGuard® II** from BetaTec

BetaTec has developed a natural compound for combating Varroa mites—HopGuard II.

Field-tested in the United States, Canada and Europe, HopGuard II is scientifically proven as a highly effective natural Varroa control system. This unique miticide is derived from hop compounds, and provides a safe, easy-to-use alternative to traditional harsh chemicals. A food-grade product, HopGuard II is safe for bees, safe for honey and safe for the environment.

Research Proves HopGuard's Efficacy

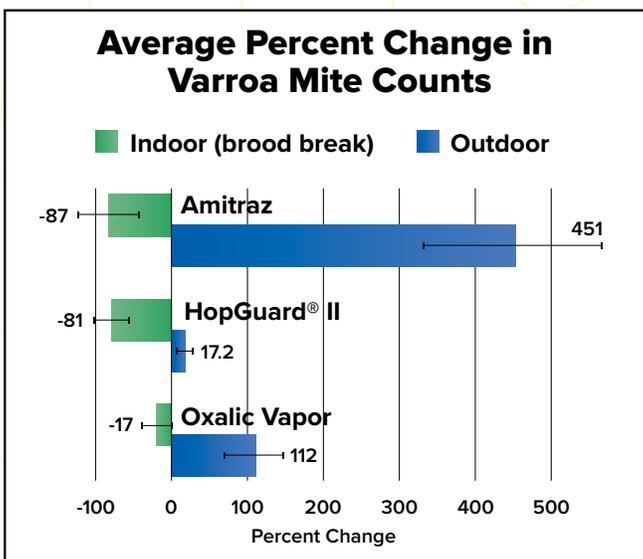
Studies show that HopGuard II is efficacious and naturally promotes bee health and survivability.

Results from a 2018 field study conducted by Dr. Brandon Hopkins and Riley Reed from the WSU Bee Program show the efficacy of HopGuard II in Varroa-infested colonies (see chart at left). After 18 days, colonies under both indoor and outdoor conditions were graded, mite levels recorded and treated with either Amitraz, HopGuard II or oxalic acid vapor.

As illustrated in the chart, results show the average percent change in Varroa mite counts (mites/100 bees) between initial treatment and 37 days later. Positive values to the right represent the increase in mite numbers from initial samples. Negative values represent a decrease in Varroa mite counts. The maximum potential negative value is -100%.

HopGuard II is the perfect natural treatment that efficiently targets exposed mites after a break in brood rearing, decreases mite population to very low levels and improves colony health.

Distributed by mannlakeltd.com



Dr. Brandon Hopkins, Riley Reed and WSU Bee Program

Put Your Trust in HopGuard® II

The natural solution for Varroa mite control

Coming in 2019!
New & improved HopGuard® III
Still all-natural, high-quality ingredients, now even more effective!

- **Naturally derived from hops**
- **No chemical residues**
- **Safe during honey flow**
- **Easy & effective**
- **Safe on bees—deadly on Varroa mites**

Any Time of Year

HopGuard II is a contact application and can be applied anytime during the year, but efficacy increases when less brood is present in colonies. The application reduces mite levels and gives colonies a boost to grow. Studies show this food-grade product is safe to use during honey flow without risk of disrupting nectar foraging or tainting the honey.

When and Why

- **Early spring:** give splits, nucs and bee packages a clean start.
- **Summer:** keep mites under control during honey flow and after harvest.
- **Fall: CRITICAL**
 - Reducing phoretic mites in September is critical to colony survivorship.
 - Avoid multiple cell infestations.
 - Treat and check mite levels one week after.
 - 2-3 consecutive treatments two weeks apart are more efficacious than a single treatment.
 - Follow up with another miticide before overwintering.

For Maximum Efficacy

Commercial beekeepers

- **January:** before almond pollination
- **March:** splits/packages/nucs
- **September/October:** two consecutive applications followed by another miticide
- **Indoor overwinter:** treat before and right after

Hobbyist beekeepers

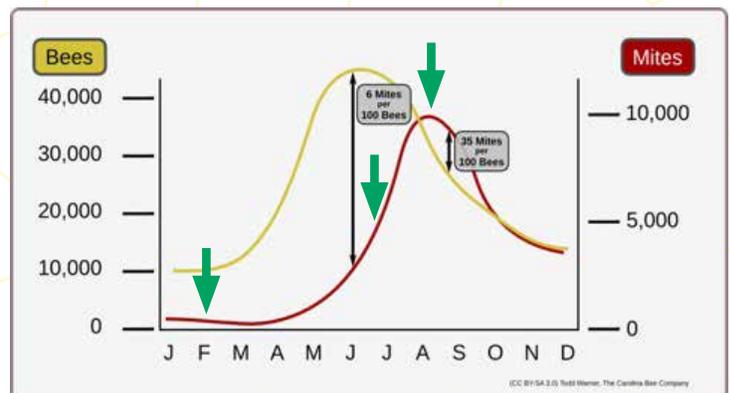
- **Spring:** when temperatures allow
- **September:** after honey harvest
- **October:** consecutive treatments, depending on mite levels



Easy—AND SAFE—to Use

Each HopGuard II kit contains 24 strips, ready for use.

- Acceptable for Langstroth, top bar hives, drone mother colonies, nucleus, splits and newly installed packages
- Daytime temperature should be above 50°F (10°C).
- Use two HopGuard II strips per 10 frames of bees.
- Hang strips between brood frames.
- Refer to the package label for full instructions.



Control mite levels with HopGuard II in early spring when there is low brood, in summer during honey flow and in early fall to avoid multiple cell infestations.