

# WISCONSIN HONEY BEE PEST CONTROL TREATMENTS 2016

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PEST	REGISTERED TREATMENT (Active Ingredient)	REGISTRATION #	APPLICATION
VARROA MITE <i>Varroa destructor</i>	<b>Apistan</b> (Fluvalinate)	EPA Reg No. <a href="#">2724-406</a>	6-8 weeks, in spring and fall. No more than 2 strips per brood box. No use during honeyflow
	<b>CheckMite+</b> (Coumaphos)	EPA Reg No. <a href="#">11556-138-61671</a>	6-8 weeks, in spring and fall. No more than 2 strips per brood box. No use during honeyflow
<b>Widespread resistance of Varroa mites to above products. Not recommended for Varroa control in WI.</b>			
	<b>Apivar Strips</b> (Amitraz)	EPA Reg No. <a href="#">872443-1</a>	2 strips per brood chamber (or 1 strip per 5 frames of bees), hang each in bee cluster with 2 frames between strips. Leave strips inside hive for 42 days, then remove. 2 treatments per year. <b>Remove strips 2 wks prior to honey flow.</b>
	<b>HopGuard II</b> (Potassium Salt of Hop Beta Acids)	EPA Reg No. <a href="#">83623-2</a>	1 strip per 5 frames covered with bees in each brood super (or) 2 strips per 10 frames covered in bees in brood super. <b>No strips in honey supers.</b> Unfold strips and hang over a center brood frame with 1/2 the strip on each side of frame. Remove after 30 days. 3 applications per year max. <b>Can be used during honey flow.</b> – can also be used in packages – see label.
	<b>Mite Away Quick Strip</b> (MAQS) (Formic Acid)	EPA Reg No. <a href="#">75710-2</a>	Place strips on the brood frames, staggered, across width of box. Do not disturb colony for 7 days (or) apply single strip every 2-6 wks. <b>Can be used during honey flow.</b> Outside temperatures between 50°-85°F.
	<b>ApiGuard</b> (Thymol)	EPA Reg No. <a href="#">79671-1</a>	2 50gm trays per hive, add the second tray after 14 days. Use in fall; best results when daily maximum temperature is above 60°F.(use 25mg dose at temps above 77°F) <b>Do not treat during honey flow.</b> Remove product prior to installing honey supers.
	<b>Api Life Var</b> (Thymol, eucalyptol, menthol)	EPA Reg No. <a href="#">73291-1</a>	Break 1 tablet into 4 pieces. Place near 4 corners of brood nest. Repeat 2x more. (7-10 day intervals, leave last treatment 12 days) Remove all residuals. Use when temperatures are 64°-95°F. It is a fumigant; close off screen bottom boards. <b>Do not use when honey supers are on.</b>
	<b>Oxalic Acid Dihydrate</b>	EPA Reg No. <a href="#">91266-1-91832</a>	Dribble or vaporize in the hive; late fall or early spring when little or no brood is present; can also spray broodless packages. See label for application instructions. <b>Do not use when honey supers are in place.</b>
<i>MAQS, ApiLife Var and Apiguard also show some control of tracheal mites.</i>			
	<b>RESISTANT BEES: Russian, SMR, VSH and MN Hygenic Stock</b>		Queens and packages available for order from many producers.
<b>INTEGRATED PEST MANAGEMENT (IPM):</b> resistant stock, check mite levels frequently, drone comb trapping and removal and ALWAYS FOLLOW LABELS AND ROTATE CHEMICALS.			

\*\*Mite products discontinued for use in Wisconsin: Sucroside, Hivastan, Mite-Away II\*\*

PEST	REGISTERED TREATMENT (Active Ingredient)	REGISTRATION #	APPLICATION
<b>AMERICAN FOULBROOD</b> <i>Paenibacillus larvae</i> <b>EUROPEAN FOULBROOD</b> <i>melissococcus pluton</i>	<b>Terramycin, OXTC, Pennox, Tetroxy (Oxytetracycline Hydrochloride)</b>	<a href="#">FDA Reg No.</a> NADA 008-804 NADA 008-622 NADA 095-143 NADA 138-938 ANADA 200-146 ANADA 200-247	<b>Labels vary.</b> Dusting or feed in syrup, 3 applications in spring or fall. <b>Remove 6 weeks prior to honey flow.</b> Can be used as a preventative. If AFB is detected, hives must be burned.
(treats AFB but NOT EFB)	<b>Tylan, Pharmasin, Tylovet, Bilovet (Tylosin Tartrate)</b>	<a href="#">FDA Reg No.</a> NADA 013-076, ANADA 200-473, ANADA 200-455	<b>Labels vary.</b> Read directions carefully. Dusting only. 200mg dose in 20g powdered sugar applied weekly for 3 weeks. <b>Complete treatment 4 weeks prior to main honey flow.</b>
Treats AFB	<b>Lincomix (Lincomycin Hydrochloride)</b>	<a href="#">FDA Reg No.</a> NADA 111-636	<i>NEW for 2016: Requires a VFD order.</i> Dusting only. Mix with powdered sugar applied once weekly for 3 weeks. <b>Complete treatment 4 weeks prior to main honey flow.</b>
<b>INTEGRATED PEST MANAGEMENT:</b> Inspect hives for symptoms of AFB. <b>Burn frames with AFB symptoms!</b> Burn or scorch the insides of boxes. Start with new frames and foundation.			
<b>SACBROOD</b> <i>virus</i>	No treatment available		Usually goes away by mid-June. If not, powerwash equipment and requeen hive.
<b>CHALKBROOD</b> <i>Ascosphaera apis</i>	No treatment available		Maintain strong colony health. Requeen with a queen bred for hygienic behavior.
<b>NOSEMA</b> <i>Nosema apis,</i> <i>N. ceranae</i>	<b>Fumagilin-B (Fumagillin)</b>		Add to feeding syrup in spring and fall, especially to packages. Dissolve 1 rounded teaspoon in 2 oz warm water (not hot) and add mixture to 1 gal of sugar syrup. Feed 2 gals medicated 1:1 sugar/water in spring and 2 gals medicated 2:1 sugar/water in fall. Feed additional unmedicated syrup if necessary but <i>do not dilute the medicated syrup.</i>
<b>WAXMOTH</b> <i>Achroia grisella,</i> <i>Galleria mellonella</i>	<b>Para-Moth (Paradichlorobenzene)</b>	<a href="#">EPA Reg No.</a> <a href="#">61671-2</a>	Use on stored equipment only. Freeze equipment in a freezer or store in unheated buildings in winter.
<b>SMALL HIVE BEETLE</b> <i>Aethina tumida</i>	<b>GardStar 40% EC (Permethrin)</b>	<a href="#">EPA Reg No.</a> <a href="#">39039-8</a>	Soil drench only. <b>Highly toxic to bees!!</b> Follow label directions carefully.
	<b>CheckMite+ (Coumaphos)</b>	<a href="#">EPA Reg No.</a> <a href="#">11556-138-61671</a>	1 week, temp >70°F. No more than 2 strips per brood box. <b>No use during honey flow.</b>
<b>INTEGRATED PEST MANAGEMENT:</b> West SHB Trap - Trap beetles in the hive. Anytime. Other traps include: Hood, Beetle Blaster, Freeman bottom board.			
<b>SMALL HIVE BEETLE (SHB) &amp; WAXMOTH IN THE HONEY HOUSE</b> Keep honey house extremely clean. Extract every 2-3 days or weekly. Do not store supers with brood. Increase air flow with fans, lower humidity with dehumidifiers. Freeze supers if needed; 10°F for 24 hours kills all life stages of small hive beetle.			



The above listed application instructions are only short summaries, **read the product label thoroughly before applying any treatments.** This list may not be complete. Listing of a product does not infer endorsement by the Department. Omissions are not intended to discriminate against registered products.