

WISCONSIN HONEY BEE PEST CONTROL TREATMENTS 2016

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PEST	REGISTERED TREATMENT (Active Ingredient)	REGISTRATION #	APPLICATION
VARROA MITE <i>Varroa destructor</i>	Apistan (Fluvalinate)	EPA Reg No. 2724-406	6-8 weeks, in spring and fall. No more than 2 strips per brood box. No use during honeyflow
	CheckMite+ (Coumaphos)	EPA Reg No. 11556-138-61671	6-8 weeks, in spring and fall. No more than 2 strips per brood box. No use during honeyflow
Widespread resistance of Varroa mites to above products. Not recommended for Varroa control in WI.			
	Apivar Strips (Amitraz)	EPA Reg No. 872443-1	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. Remove strips 2 wks prior to honey flow.
	HopGuard II (Potassium Salt of Hop Beta Acids)	EPA Reg No. 83623-2	1 strip per 5 frames covered with bees in each brood super (or) 2 strips per 10 frames covered in bees in brood super. No strips in honey supers. 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. Can be used during honey flow. – can also be used in packages – see label.
	Mite Away Quick Strip (MAQS) (Formic Acid)	EPA Reg No. 75710-2	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. Can be used during honey flow. Outside temperatures between 50°-85°F.
	ApiGuard (Thymol)	EPA Reg No. 79671-1	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) Do not treat during honey flow. Remove product prior to installing honey supers.
	Api Life Var (Thymol, eucalyptol, menthol)	EPA Reg No. 73291-1	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. Do not use when honey supers are on.
	Oxalic Acid Dihydrate	EPA Reg No. 91266-1-91832	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. Do not use when honey supers are in place.
<i>MAQS, ApiLife Var and Apiguard also show some control of tracheal mites.</i>			
	RESISTANT BEES: Russian, SMR, VSH and MN Hygenic Stock		Queens and packages available for order from many producers.
INTEGRATED PEST MANAGEMENT (IPM): 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

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AMERICAN FOULBROOD <i>Paenibacillus larvae</i> EUROPEAN FOULBROOD <i>melissococcus pluton</i>	Terramycin, OXTC, Pennox, Tetroxy (Oxytetracycline Hydrochloride)	FDA Reg No. NADA 008-804 NADA 008-622 NADA 095-143 NADA 138-938 ANADA 200-146 ANADA 200-247	Labels vary. Dusting or feed in syrup, 3 applications in spring or fall. Remove 6 weeks prior to honey flow. Can be used as a preventative. If AFB is detected, hives must be burned.
(treats AFB but NOT EFB)	Tylan, Pharmasin, Tylovet, Bilovet (Tylosin Tartrate)	FDA Reg No. NADA 013-076, ANADA 200-473, ANADA 200-455	Labels vary. Read directions carefully. Dusting only. 200mg dose in 20g powdered sugar applied weekly for 3 weeks. Complete treatment 4 weeks prior to main honey flow.
Treats AFB	Lincomix (Lincomycin Hydrochloride)	FDA Reg No. NADA 111-636	Dusting only. Mix with powdered sugar applied once weekly for 3 weeks. Complete treatment 4 weeks prior to main honey flow.
INTEGRATED PEST MANAGEMENT: Inspect hives for symptoms of AFB. Burn frames with AFB symptoms! Burn or scorch the insides of boxes. Start with new frames and foundation.			
SACBROOD <i>virus</i>	No treatment available		Usually goes away by mid-June. If not, powerwash equipment and requeen hive.
CHALKBROOD <i>Ascosphaera apis</i>	No treatment available		Maintain strong colony health. Requeen with a queen bred for hygienic behavior.
NOSEMA <i>Nosema apis,</i> <i>N. ceranae</i>	Fumagilin-B (Fumagillin)		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>
WAXMOTH <i>Achroia grisella,</i> <i>Galleria mellonella</i>	Para-Moth (Paradichlorobenzene)	EPA Reg No. 61671-2	Use on stored equipment only. Freeze equipment in a freezer or store in unheated buildings in winter.
SMALL HIVE BEETLE <i>Aethina tumida</i>	GardStar 40% EC (Permethrin)	EPA Reg No. 39039-8	Soil drench only. Highly toxic to bees!! Follow label directions carefully.
	CheckMite+ (Coumaphos)	EPA Reg No. 11556-138-61671	1 week, temp >70°F. No more than 2 strips per brood box. No use during honey flow.
INTEGRATED PEST MANAGEMENT: West SHB Trap - Trap beetles in the hive. Anytime. Other traps include: Hood, Beetle Blaster, Freeman bottom board.			
SMALL HIVE BEETLE (SHB) & WAXMOTH IN THE HONEY HOUSE 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.