

## Diseases and Medications for Honeybees

Disease: Varroa destructor (external parasite)

Medication (info source)	Type of Agent	Time of Application	Hazards	Vendor
Apiguard (Label)	Essential Oil (Thymol)	Temperature: 60-105F, 2x @ 2 week intervals No honey supers	Gloves, eyewhere needed Can kill brood	1, 3, 4
ApiLife Var (Mann Lake)	Essential Oil (Thymol)	Temp: 65-95F 3x at 7-10 days	Gloves	2, 5
Apistan	Fluvalinate (Pyrethroid)	Spring or Fall	Gloves Mite resistance	1, 2, 3, 4, 5
Checkmite	Synthetic Pesticide (Organophosphate)	When brood is lowest, remove after 42 days	Gloves Mite resistance	2, 4, 5
Hivastan	Synthetic Pesticide (fenpyroximate)	Spring or Fall	Gloves, Some bee loss possible	2, 3, 4, 5
Hopguard (Mann Lake)	Derived from hop plant	Any time	Not approved in NYS yet	5
Sucroicide (Brushy Mountain)	Sucrose Octanoate Ester	All bees sprayed 3x at 7-10 days, any time		2, 3,
Mite-away II (Betterbee)	Formic Acid	Temperatures 50-79 F	Gloves, eyewhere needed Can kill brood, queens	1, 3, 4, 5
Mite Away Quick Strips	Formic Acid	Can be applied during honey flow	Gloves, eyewhere needed Can kill brood, queens	3,4, 5
Oxalic Acid			Not approved in U.S.	

Disease: Nosema ceranae and Nosema apis (Intestinal fungus)

Medication (info source)	Type of Agent	Time of Application	Hazards	Vendor
Fumagillin (Label insert)	Antibiotic	Fall or Spring	Cannot be fed before or during honey flow	1, 2, 3, 4, 5
Honey B Healthy (Rhoades, P.R., & J.A. Skinner)	Essential Oils (Lemon Grass & Spearmint)	Spring or Fall	Can Flavor Honey	1, 2
Thymol (Rhoades, P.R., & J.A. Skinner)	Essential Oil	See products for varroa		
Nozevit (British Web Sites)	Plant polyphenol	2x @ 10 day apart Spring or Fall		3
Lemon Juice Concentrate (Paul Cappy)		Timing? ½ oz./ gallon syrup		

Disease: American foulbrood and European foulbrood (Bacteria)

Medication (info source)	Type of Agent	Time of Application	Hazards	Vendor
Terramycin, aka: duramycin	Antibiotic	1x/wk for 3 weeks	Development of Drug Resistant Foulbrood	1, 2, 3, 6
Tylan	Antibiotic	1x/wk for 3 weeks	200 day ½ life Residue found two years later	1, 3, 4

Disease: Tracheal Mite (Mite of breathing tube)

Medication (info source)	Type of Agent	Time of Application	Hazards	Vendor
Breeding resistant bees			None; Many bees already resistant	
Mite-A-Thol	Essntial Oil (Menthol)	Remove 30 days before honey flow		3, 4, 5
Grease Patties (Wikipedia)			None	

Disease: Small Hive Beetle

Medication (info source)	Type of Agent	Time of Application	Hazards	Vendor
Checkmite (Mann Lake)	Synthetic Pesticide (Organophosphate)	When brood is lowest, remove after 42 days	Gloves	2, 4, 5
Gardstar (Mann Lake)	Synthetic Pesticide (Ground Drench)		Do not use inside hive, keep overspray away	2, 3, 4, 5

Disease: Viruses

Medication (info source)	Type of Agent	Time of Application	Hazards	Vendor

Disease: Chalkbrood (Fungus)

Medication (info source)	Type of Agent	Time of Application	Hazards	Vendor
No approved medications				
Breeding resistant bees			None	

Disease: Wax Moth

Medication (info source)	Type of Agent	Time of Application	Hazards	Vendor
Paramoth	Para-dichloro benzene (Not Napthalene)	Stored equipment	Do not use when honey is in comb Air out equipment before use 1-2 wk	3, 4, 5

Vendors: 1 - Betterbee, 2 - Brushy Mtn, 3 - Dadant, 4 - Walter T. Kelley, 5 - Mann Lake, 6 - Local Feed Store