

## IR-4 ACTIVITIES INVOLVING PEST MANAGEMENT IN HONEYBEES

The IR-4 Biopesticide Program has had a long history of success in obtaining registrations for managing pests in honeybees. The following is a list of products in which IR-4 played a role in their registration. Almost all the in-hive pest management products have been registered through the Biopesticides and Pollution Prevention Division (BPPD) of EPA.

Active Ingredient	Pest	Pesticide type	Activity	PR#
Bt	Wax moth	Biopesticide-microbial	Submitted petition to expand tolerance exemption	01012
Formic acid	Varroa mite	Biopesticide-Biochemical	Submitted petition and Registration Package to BPPD	04896
Thymol, Eucalyptol	Varroa mite	Biopesticide-Biochemical	Submitted residue data, petition and Registration Package to BPPD	0160B, 08661
Menthol	Tracheal mites	Biopesticide-Biochemical	Submitted petition and Registration Package to BPPD	03459
Coumaphos	Varroa, Small hive beetle	Conventional	Submitted residue data and tolerance petition	07371
Cinnamaldehyde	Varroa mite	Biopesticide-Biochemical	Submitted petition and Registration Package to BPPD for crop use(not bees). Funded efficacy research and pending label expansion	0334B

Sucrose Octanoate	Varroa mite	Biopesticide-Biochemical	Submitted petition and Registration Package to BPPD	0089B
Oxalic acid	Varroa mite	Biopesticide-Biochemical	Submission pending	0376B