

# HatchTrak<sup>SM</sup>



## *APHID CONTROL IN VEGETABLE AND SPECIALTY CROPS*

### *Shutting Down Profit Sucking Pests*

Aphids are soft-bodied insects that suck sap and profits from high value crops. More importantly, aphid feeding introduces viral infections that can severely reduce marketable yields. If aphid populations are left unchecked the damage can quickly spread across the field.

Apply Beleaf<sup>®</sup> 50SG insecticide early, before aphid populations begin to build, to allow for uptake and distribution within the crop and take advantage of its outstanding residual control.

### *Beleaf 50 SG Insecticide Introduction*

Beleaf 50 SG insecticide is a premier product for aphid pests. Beleaf 50 SG insecticide works by contact or ingestion and stops feeding within 30 minutes. Beleaf 50 SG insecticide is easy on pollinators and beneficial insects to avoid flaring additional pest problems, which makes it an excellent fit for integrated pest management (IPM) programs.

### *Beleaf 50 SG Insecticide Quick Facts*

- Unique Mode of Action: only chemical in IRAC Group 29. No known cross resistance to other classes of insecticides.
- Excellent for resistance management. Beleaf 50 SG insecticide is NOT a neonicotinoid.
- Translaminar movement for control through contact and ingestion; insects stop feeding within 30 minutes of exposure.
- Rainfast when dry on the leaf surface.
- Can be used any time during the crop season including flowering.
- Can be applied by ground. Thorough coverage is necessary. Refer to crop section for minimum GPAs by crop.
- Labeled for **greenhouse cucumbers and tomatos**.
- Pests Controlled: Aphids, Plant bugs, Greenhouse Whitefly
- Non-ionic surfactant or silicon adjuvant recommended
- Minimum retreatment interval is 7 days.
- Short pre-harvest intervals.

## **Inside This Issue**



### **Sucking Pest Management**

- **Aphids, Plant Bugs, Greenhouse Whiteflies**
- **Background**
- **Registrations**
- **Trial Data**

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## Field Grown Vegetables and Specialty Crops

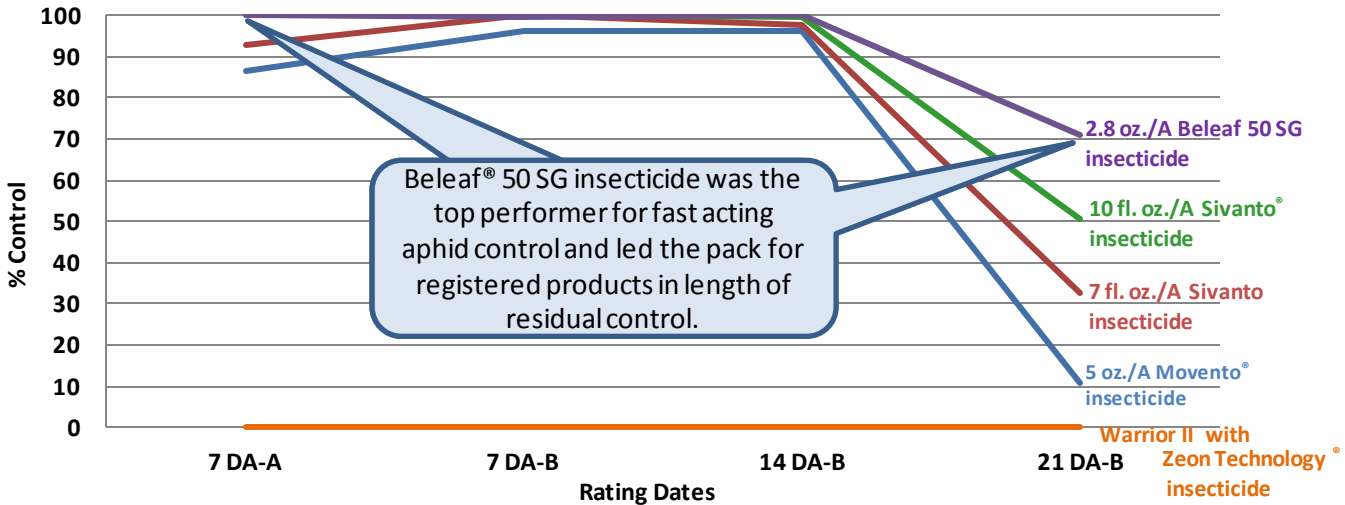
Crop	Pests Controlled	Recommended Rate (oz./A)	Maximum Amount Per Season	PHI (Days)
Cucurbit Vegetables (Crop Group 9)	Aphids, plant bugs, greenhouse whitefly	2.0 – 2.8	8.4 oz./A 0.267 lb. ai/A	0
Fruiting Vegetables (Crop Group 8-10)	Aphids, plant bugs, greenhouse whitefly	2.8 – 4.28	8.4 oz./A 0.267 lb. ai/A	0
Leafy Vegetables	Aphids, plant bugs, greenhouse whitefly	2.0 – 2.8	8.4 oz./A 0.267 lb. ai/A	0
Brassica Leafy Vegetables	Aphids, plant bugs, greenhouse whitefly	2.0 – 2.8	8.4 oz./A 0.267 lb. ai/A	0
Tuberous and Corm Vegetables	Aphids, plant bugs, greenhouse whitefly	2.0 – 2.8	8.4 oz./A 0.267 lb. ai/A	7
Root Vegetables (except sugar beet)	Aphids, plant bugs, greenhouse whitefly	2.0 – 2.8	8.4 oz./A 0.267 lb. ai/A	3
Hop	Hop aphid	1.7 – 2.8	8.4 oz./A 0.267 lb. ai/A	10

## Greenhouse Cucumber and Tomato

Crop	Application Type	Pests Controlled	Recommended Rate (oz./A)	Maximum Amount Per Season	PHI (Days)
Cucumber	Foliar	Aphids, plant bugs	2.8 – 4.28 oz./A 0.065 – 0.1 oz./1000 ft <sup>2</sup>	8.56 oz./A 0.268 lb. ai/A	0
		Greenhouse whitefly	4.28 oz./A 0.1 oz./1000 ft <sup>2</sup>		
	Soil or Growth Media	Aphids, plant bugs, greenhouse whitefly	4.28 oz./A 0.44 oz./1000 plants at 1 plant/4.5 ft <sup>2</sup>		
Tomato	Foliar	Aphids, plant bugs	2.8 – 4.28 oz./A 0.065 – 0.1 oz./1000 ft <sup>2</sup>	8.56 oz./A 0.268 lb. ai/A	0
		Greenhouse whitefly	4.28 oz./A 0.1 oz./1000 ft <sup>2</sup>		

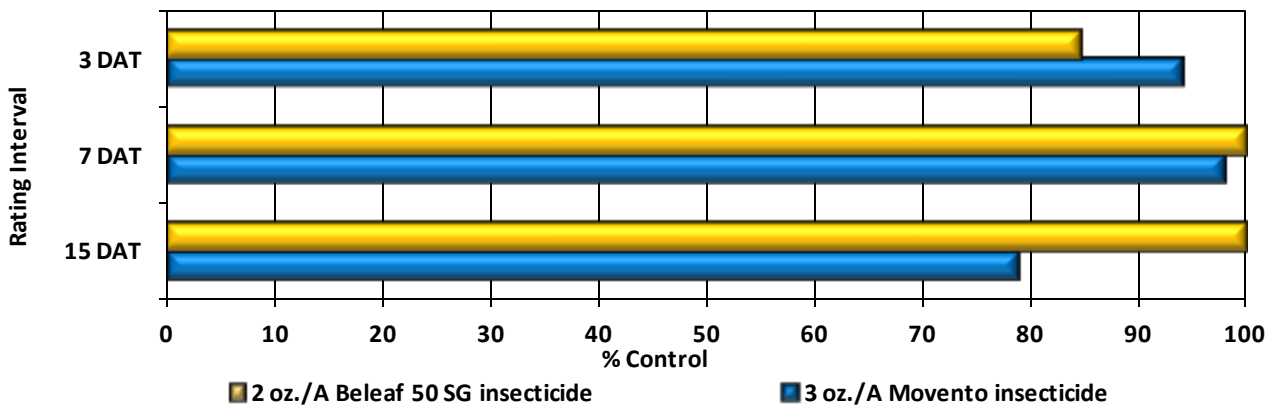
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## Melon Aphid Control in Summer Squash



Data Source: Tom Kuhar; VA Tech ESAREC; Painter, VA; 2016

## Green Peach Aphid Control in Cabbage



Data Source: Tom Kuhar; VA Tech ESAREC; Painter, VA ; 2007

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Always read and follow label directions. NOTE REGARDING RESTRICTED USE PESTICIDES: **Anthem ATZ herbicide; Athena insecticide, Brigade 2EC Insecticide/Miticide, Brigade WSB Insecticide/Miticide, Brigadier Insecticide Capture 3RIVE 3D insecticide, Capture LFR Insecticide, Declare insecticide, Hero Insecticide, Mustang Insecticide, Mustang Maxx Insecticide, Pounce 25WP Insecticide, Stallion Brand Insecticide, Ethos XB Insecticide/Fungicide and Gladiator Insecticide/Miticide are Restricted Use Pesticides.** VGR Soil Amendment is **not a pesticide**. NOTE FOR CALIFORNIA: Accurate Extra herbicide, Aim EC herbicide, Anthem herbicide, Anthem ATZ herbicide, Anthem Flex herbicide, Anthem Maxx herbicide, Authority Assist herbicide, Authority Elite herbicide, Authority First DF herbicide, Authority Maxx herbicide, Authority MTZ DF herbicide, Authority XL herbicide, Cadet herbicide, Chisum Herbicide, Command 3ME microencapsulated herbicide, Crusher Herbicide, Edition Broadspec herbicide, Edition Tankmix Herbicide, Marvel herbicide, Nimble Herbicide, Nuance Herbicide, Preemptor SC, Report Extra Herbicide, Solstice herbicide, Spartan 4F herbicide, Spartan Charge herbicide, Spartan Elite herbicide, Zeus Prime XC herbicide, Zeus XC herbicide, Capture 3RIVE 3D insecticide, Ethos XB Insecticide/Fungicide, Hero Insecticide, Mustang Maxx Insecticide, Topguard Fungicide Specialty Crops fungicide, Display cotton harvest aid **are not registered for sale or use in California.** Beleaf and Carbine are trademarks of Ishihara Sangyo Kaisha, Ltd. Cercobin is a trademark of Nippon Soda Co., LTD. Sovran is a registered trademark of BASF. FMC, 3RIVE 3D, Accurate, Aim, Anthem, Athena, Authority, Brigade, Brigadier, Cadet, Capture, Chisum, Command, Crusher, Declare, Display, Edition, Ethos, Fortix, Fracture, Fyfanon, Gladiator, Hero, Koverall, LFR, Marvel, Mustang, Nimble, Obey, Pounce, Preemptor SC, Report, Rhyme, Rovral, Shark, Solida, Solstice, Spartan, Stallion, Topguard, Topguard Terra and Zeus are trademarks and HatchTrak and "Investing in farming's future" are service marks of FMC Corporation or an affiliate. ©2016 FMC Corporation. All rights reserved.

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