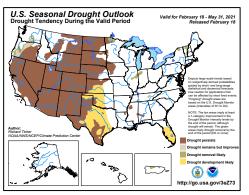
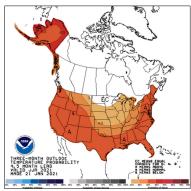
# Hatch Ita SM

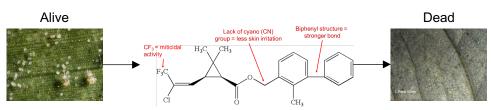
Looking at the Climate Prediction Center, much of the Great Plains is already in a drought and, according to the prediction models, we are not likely to have an above-average rainfall year. The result appears to be setting us up for a hot, dry spring and summer. According to Dr. Robert Wright, research and extension entomologist at University of Nebraska-Lincoln, spider mite populations do very well in hot and dry years for two main reasons:

- 1. Dry, hot weather means less fungal disease. Mites don't like fungus.
- 2. Optimal temperatures for plant-feeding spider mites are higher than that of predatory mites.





Mite colonies have evolved to be survivors. That is why the best method of controlling two-spotted spider and Banks mites is often with other mites. Predatory mites and beneficial insects like ladybeetles are key players in keeping populations at bay. When growers target chewing insects like caterpillars with broad-spectrum products, they run the risk of killing these natural enemies of mites. Bifenthrin contains a trifluoromethyl group. The result is a more stable compound that has miticidal activity. When combined with other key active ingredients like Rynaxypyr® active, we can achieve reliable mite and insect management.











Bifenthrin (3A)

Corn, soybean, others

6.4 fl. oz./A

Reliable, effective on many pests including mites and aphids

Bifenthrin (3A) + zeta-Cypermethrin (3A)

Corn, soybean, others

10.3 fl. oz./A

Broad spectrum, dual active ingredient

Bifenthrin (3A) + Rynaxapyr active (28)

Corn, soybean, others

7.7 - 9.6 fl. oz./A

Lengthy residual, great toxicological profile, multiple MOA February 2021

## **INSIDE THIS ISSUE**

2021: A mite year?

Brigade® 2EC insecticide/miticide, Hero® insecticide

Introduction of Elevest™ insect control

Contact your local FMC representative for more information.

Brandon Schrage, Ph.D., CCA Technical Service Manager 618-792-5919

> **Dillon Blyth** Northeast NE 303-263-4133

Madelyn Bak Eastern NE, Southwest IA 712-579-4108

> Lisa Paul Southeast NE

> 402-432-2292

Dan Smydra Central NE 308-750-6340

Mason Hansen West NE 970-580-6003

Robb Rainey Colorado 970-342-6105

Cori Woelk West KS 405-370-7469

Gary Vaupel West Central KS 785-826-0098

Doug Mertens Missouri 573-489-5261

Tom Becker Northeast KS, Northwest MO 816-550-6021

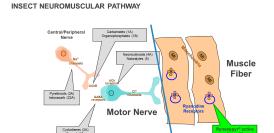
Brigade 2EC insecticide/miticide, Hero insecticide and Elevest insect control are Restricted Use Pesticides.

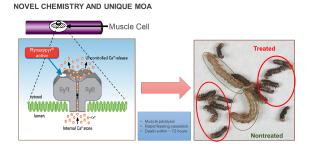


Insect management can be difficult in the Great Plains. Resistance, untimely weather, shifting emergence and flight patterns – even product cancellations like chlorpyrifos.

FMC strives to stay ahead of the curve with newer, innovated and more effective technology. Rynaxapyr® active is a new class of chemistry that provides excellent Lepidopteran control, lengthy residual, minimal impact on beneficials and a favorable worker safety profile.

### 1. Novel mechanism of action that is great for resistance management





#### 2. Minimal impact on beneficial arthropods

# RYNAXYPYR $^{\circ}$ ACTIVE HAS MINIMAL IMPACT TO MOST BENEFICIAL ARTHOPODS

ROUP	ORDER	FAMILY	SPECIES	RESULT
Predators	Neuroptera	Chrysopidae	Chrysoperla carnea	•
	Lacewings		Mallada signatus	
	Coleoptera	Coccinellidae	Hippodamia convergens	
	Ladybird beetles		Hippodamia variegatta	•
			Harmonia axyridis	
	Hemiptera	Nabidae	Nabis kinbergii	
	Predatory bugs	Anthrocoridae	Orlus insidiosus	
			Anthocoris nemoralis	
		Miridae	Deraeocoris brevis	
		Lygaeidae	Geocoris punctipes	
	Acari	Phytoseiidae	Amblyseius herbicolus	_
	Predatory mites		Amblyselus andersonl	<b>_</b>
			Kampimodromus aberrans	
			Euselus citrifolius	
<ul> <li>Minimal impact, (0-30% mortality).</li> </ul>			Iphiseiodes zulugal	•
	ng according to IOBC/ WPRS	Working Group,	Typhlodromus occidentalis	<u> </u>
Has	san et al. 1988.		Typhlodromus pyri	

## RYNAXYPYR® ACTIVE HAS EXCELLENT SELECTIVITY TO BENEFICIAL ARTHROPODS I.E. PARASITIC WASPS & POLLINATORS

Parasitoids	Hymenoptera	Trichogrammatidae	Trichogramma pretiosum
	Parasitic wasps		Trichogramma chilonis
		Braconidae	Aphidius rhopalosiphi
			Bracon hebetor
			Dollchogenidea tasmanica
		Encyrtidae	Ageniespis citricola
		Aphelinidae	Aphelinus mall
Pollinators	Hymenoptera	Apidae	Apis mellifera
	Honey bees		

#### 3. Highly-effective, translaminar and residual control

#### **EXCELLENT CROP PROTECTION - LAB RESULTS**

(48 hours feeding duration, corn earworm) Rynaxypyr® active



Untreated

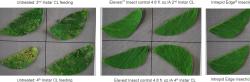
Intrepid Edge® insecticide

6 fl 07 /A

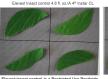


Prevathon® insect control 14 fl. oz./A

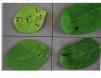
#### ELEVEST™ INSECT CONTROL - EFFECTIVE ON DIFFICULT-TO-CONTROL PESTS

























- Rynaxypyr<sup>®</sup> active (Group 28)
- 14 20 fl. oz./A
- Excellent Lepidopteran and grasshopper control
- Favorable toxicological profile
- Resistance management tool
- 14+ days of residual

- Rynaxypyr active (Group 28)
- 1.2 1.7 fl. oz./A
- Lower application rates
- Better compatibility
- Rainfastness when allowed time to dry
- Same reliable efficacy

- Rynaxypyr active (IRAC 28) + Bifenthrin (IRAC 3A)
- 4.8 9.6 fl. oz./A
- Knockdown + residual
- Broader spectrum
- Improved control on loopers, mites and stinkbugs
- Corn, succulent peas and beans, dry beans, potatoes and soybeans.

Vantacor® insect control, an improved version of Prevathon® insect control, contains Rynaxypyr active, the industry leader in Lepidopteran control in soybeans and corn. If the hot, dry days of summer are upon us and mites are a concern, products with Rynaxapyr active will work with you and the beneficial insects rather than causing flare ups. For broader spectrum control of tough insects at all life stages, choose Elevest® insect control, which uses the residual and selective power of Rynaxapyr active and combines it with the reliable knockdown and miticidal activity of Brigade® 2EC insecticide/miticide.

It's a new era in insect management for Great Plains corn and soybeans.

# LEARN MORE AT AG.FMC.COM