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# Critical Updates for the 2024-2025 Mid-Atlantic Commercial Vegetable Production Recommendations Guide (January 2025)

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## Weed Management

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### **Dacthal is no longer labeled for any crop use**

EPA issued “Stop Use” of Dacthal (DCPA) for all uses on August 6th, 2024. This is for all uses of Dacthal. No application, sale, distribution or transportation of Dacthal is permitted. More information can be found at <https://www.epa.gov/newsreleases/epa-issues-emergency-order-stop-use-pesticide-dacthal-address-serious-health-risk-4>

Check with your state agency responsible for pesticides to determine appropriate procedures for disposal of remaining stocks.

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Rely 280 is labeled for row middles with plasticulture for cucumbers, melons, peppers, summer squash, tomatoes, and watermelons. Contact your BASF salesperson or technical service representative for a copy of the label.

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Expiring 24c’s, check that labels have been renewed before use:

Command for lima bean DE 4-29-25; VA 12-31-2024

GoalTender for cole crops in NJ 12-31-2024

Dual Magnum for watermelon in DE 2-2-2025

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## Insect Management

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Please note **Fastac CS** (alpha-cypermethrin, Group 3A pyrethroid insecticide, 12 hr REI) should be included in the following vegetable chapters:

Cole crops: 2.2-3.8 fl oz/A, 1 d PHI

Sweet corn: 2.2-3.8 fl oz/A, 3 d PHI

Summer Squash, Pumpkins and Winter Squash, Muskmelon/Cantaloupe, Watermelon, and Cucumber: 1.4-3.8 fl oz/A, 1 d PHI

Eggplant, Tomato, Pepper, Okra: 2.2-3.8 fl oz/A, 1 d PHI

Lettuce, Endive, Escarole: 2.2-3.8 fl oz/A, 1 d PHI

Beans and edamame: 1.3-3.8 fl oz/A, 1 d PHI

Potato: 1.3-3.8 fl oz/A, 1 d PHI

Sweet Potato: 1.3-3.8 fl oz/A, 1 d PHI

Radish, Rutabaga, and Turnip: 1.3-3.8 fl oz/A, 1 d PHI

Please note **Sefina** (afidopyropen, group 9D) is labeled for aphid control (3.0 fl oz/A) and whitefly (14.0 fl oz/A), 0 d PHI in tomato, pepper, and okra, and in potato at 3.0-6.0 fl oz/A for aphids and 14.0 fl oz for whitefly with a 7 d PHI.

Please note **Ridgeback** (sulfoxaflor + bifenthrin, group 4C + 3A, 24 h REI) is labeled on sweet corn for aphid control and other insect pests at 4.5 to 13.8 fl oz/A with a 7 d PHI

Always consult labels for use application directions and insects labelled. Please note some insects may or may not be adequately controlled by a given material in all areas, consult your local extension service for guidance.

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### Disease Management

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#### Update to Miravis Prime label:

Rust(*Puccinia allii*) is no longer labeled for control in Onion. See below.

## 7.5 Bulb Vegetable Crop Group 3-07

Crops (Including cultivars, varieties, and/or hybrids of these)			
Onion Dry, Bulb		Onion, Green	
Garlic	Onion, Chinese	Chive, fresh leaves	Onion, fresh
Garlic, great headed	Onion, pearl	Chive, Chinese, fresh leaves	Onion, green
Garlic, serpent	Onion, potato	Elegans hosta	Onion, Japanese bunching
Lily	Shallots	Fritillaria, leaves	Onion, macrostem
Onion		Green eschalots	Onion, spring
		Kurrat	Onion, tree tops
		Lady's leek	Onion, Welsh
		Leek	Scallions
		Onion, Beltsville bunching	Shallots, green
			Shallots, fresh leaves
Target Disease	Rate fl oz/A	Application Timing	Use Directions
<b>Foliar Diseases</b> Cladosporium leaf blotch ( <i>Cladosporium allii</i> ) Purple blotch ( <i>Alternaria porri</i> ) Rust ( <i>Puccinia allii</i> ) Stemphylium leaf blight ( <i>Stemphylium vesicarium</i> )	10.3 – 11.4*	Begin applications prior to disease development.  Continue applications through season on a 7-day interval, following the resistance management guidelines.	Apply by ground or air.  An adjuvant may be added at directed rates.  Apply in sufficient water volume to ensure good coverage.
Botrytis leaf blight ( <i>Botrytis aclada</i> )	11.4*	Apply when conditions are conducive for disease.	If disease pressure is high, use the specified highest rate.
*10.3 fl oz product/A is equivalent to 0.10 lb ai pydiflumetofen and 0.168 lb ai fludioxonil. *11.4 fl oz product/A is equivalent to 0.11 lb ai pydiflumetofen and 0.186 lb ai fludioxonil.			

Update to Miravis Prime label (continued)

Fusarium wilt control added to cucurbit vegetables (Crop Group 9)

~~7.7.7~~ 7.7.8 Cucurbit Vegetables, Crop Group 9

Crops (Including all cultivars, varieties, and/or hybrids of these)		
Chayote (fruit)	<b>Muskmelon</b>	Pumpkin
Chinese Waxgourd (Chinese Preserving Melon)	True Cantaloupe	<b>Squash, Summer</b>
Citron Melon	Cantaloupe	Crookneck Squash
Cucumber	Casaba	Scallop Squash
Gherkin	Crenshaw Melon	Straightneck Squash
<b>Gourd, Edible</b>	Golden Pershaw Melon	Vegetable Marrow
Hyotan	Honeydew Melon	Zucchini
Cucuzza	Honey Balls	<b>Squash, Winter</b>
Hechima	Mango Melon	Butternut Squash
Chinese okra	Persian Melon	Calabaza
<b>Momordica spp.</b>	Pineapple Melon	Hubbard Squash
Balsam Apple	Santa Claus Melon	Acorn Squash
Balsam Pear	Snake Melon	Spaghetti squash
Bitter Melon		Watermelon
Chinese Cucumber		

<p><b>Soil Application, Suppression Only:</b> Fusarium wilt (Fusarium spp.)</p>	<p>13.4 – 15.4*</p>	<p>Make an application to the soil at or prior to planting by any of the following methods:</p> <ul style="list-style-type: none"> <li>Broadcast, Preplant incorporated.</li> <li>Banded surface spray.</li> <li>In-furrow.</li> <li>Shanked in.</li> <li>Transplant water.</li> <li>Drip irrigation.</li> <li>Overhead irrigation.</li> </ul> <p>Make a second application 14-21 days after the first application, if necessary.</p> <p><b>Banded application:</b> Apply in a 7- to 10-inch band prior to seeding, transplanting or laying plastic mulch.</p> <p>A banded application can also be made over the seedline.</p>	<p>Apply by ground or chemigation.</p> <p>See Section 4.1.1 for directions on soil applications.</p> <p>See Section 4.5.4 for drip irrigation instructions.</p> <p>Apply by overhead chemigation in 0.25 – 0.5 inches water per acre.</p> <p>Soil broadcast and banded applications should be made in a minimum of 20 GPA.</p> <p>Transplant water applications should be made in a minimum of 100 GPA.</p>
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\*9.2 fl oz product/A is equivalent to 0.090 lb ai pydiflumetofen and 0.149 lb ai fludioxonil.  
 \*11.4 fl oz product/A is equivalent to 0.11 lb ai pydiflumetofen and 0.186 lb ai fludioxonil.  
 \*13.4 fl oz product/A is equivalent to 0.131 lb ai pydiflumetofen and 0.219 lb ai fludioxonil.  
 \*15.4 fl oz product/A is equivalent to 0.15 lb ai pydiflumetofen and 0.25 lb ai fludioxonil.

**Resistance Management:**

- DO NOT make more than two consecutive applications of Miravis Prime or other Group 7 and 12 fungicides before alternation with a fungicide that is not in Group 7 or 12.

## Updates to Miravis Prime (continued)

### Added Soil Applications (Drip or Banded) and Drip (Trickle) to Cucurbit Vegetables, Crop Group 9

#### 4.1.1 Soil Applications (Drip or Banded)

- Soil application rates for Miravis Prime/ 1000 feet of row, based on plant row spacing. Calculate broadcast spray application rates based on square footages to be treated.

Conversion Chart for Drip (Trickle) Chemigation and Banded Application								
Corresponding field rate (fl oz/A)	Rate in fl oz product/ 1000 row ft based on planted row spacing of:							
	30"	34"	36"	48"	60"	72"	84"	
11.4	0.65	0.74	0.79	1.05	1.31	1.57	1.83	
12.0	0.69	0.78	0.83	1.10	1.38	1.65	1.93	
13.0	0.73	0.85	0.90	1.19	1.49	1.79	2.09	
14.0	0.80	0.91	0.96	1.19	1.61	1.93	2.25	
15.0	0.86	0.98	1.03	1.38	1.72	2.07	2.41	
15.4	0.88	1.00	1.06	1.41	1.77	2.12	2.48	

#### Surface Banded Application

- Apply in a 7- to 10-inch band. See [Conversion Chart for Drip \(Trickle\) Chemigation and Banded Application](#) for rates.
- Follow application with cultivation or irrigation (0.25 – 0.50 inch) to move Miravis Prime to the target zone.

### Soil application of Miravis Prime for control of Fusarium wilt in Pepper (Greenhouse only)

#### 7.18 Peppers, Greenhouse Production Only

Crops (Including all cultivars, varieties, and/or hybrids of these)			
Bell pepper Nonbell pepper			
Target Disease	Rate (fl oz/A)	Application Timing	Use Directions
<b>Suppression Only:</b> Fusarium wilt ( <i>Fusarium</i> spp.)	11.4*	Begin applications prior to disease development.	Apply via drench or drip irrigation.  See <a href="#">Section 4.1.1</a> and <a href="#">Section 4.5.4</a> for directions on drip irrigation application.
*11.4 fl oz product/A is equivalent to 0.11 lb ai pydiflumetofen and 0.186 lb ai fludioxonil.			
USE RESTRICTIONS			
1) <b>Maximum Single Application Rate:</b> DO NOT exceed the maximum rate listed in the table.			
2) <b>Maximum Number of Applications per Year:</b> DO NOT make more than 1 soil application at the maximum application rate per year.			
3) <b>Minimum Application Interval:</b> Not Applicable			
4) <b>Maximum Annual Rate:</b> 40.2 fl oz/A/year (equivalent to 0.393 lb ai/A/year pydiflumetofen and 0.654 lb ai/A/year fludioxonil). a. DO NOT apply more than 0.393 lb ai/A/year of pydiflumetofen-containing products. b. DO NOT apply more than 0.9 lb ai/A/year of fludioxonil-containing products.			
5) DO NOT apply to fruiting vegetables grown in the greenhouse except for greenhouse peppers.			
6) <b>Pre-harvest Interval (PHI):</b> a. Soil application: 1 day			

Orondis Gold DC [(oxathiapiprolin (FRAC group 49) + mefenoxam (4)] a new formulation of Orondis, is labeled for multiple crop groups. See label for specifics.