

# Powdery Mildew of Cucurbits - *Podosphaera* Fungus

## Cantaloupe/Muskmelon

Powdery mildew is primarily a disease of cantaloupe, cucumber, pumpkin, and squash. This disease does not require leaf wetness for disease initiation or spread.

*At vine touch*, begin systemic fungicide applications at bush stage of pumpkin growth. Protect pumpkin vines until approximately 21 days from last harvest. Some pumpkin varieties have partial resistance to powdery mildew.

Fungicide resistance has been detected in the Midwest. Fungicides in FRAC 1 and 11 may not be effective. Fungicides that are effective include Cabrio, Flint, Gatten, Inspire Super, Luna Flex, Procure, Quintec, Quadris, Rhyme, Satori, Sovran, Torino, and Topsin. Alternate fungicides between MOA groups.

## Non-Pesticide

### Non-Pesticide Options

Rotate to non-cucurbit crops for 2 years. Resistant or partially resistant cantaloupe, cucumber and pumpkin cultivars are available. Prompt destruction of the finished crop with tillage to rapidly breakdown tissue is an important method to prevent disease build-up.

## Pesticide

**Aprovia Top** | **benzovindiflupyr , difenoconazole** | 10.5-13.5 fl. oz. per acre. REI: 12-hour. PHI: 0-day. FRAC 07 . FRAC 03 .

**Fontelis** | **penthiopyrad** | 12-16 fl. oz. per acre.

In the greenhouse use a rate of 0.5 fl. oz. per gallon per 1,360 sq. ft.

REI: 12-hour. PHI: 1-day. FRAC 07 .

**Gatten** | **flutianil** | 6-8 fl. oz. per acre. REI: 12-hour. PHI: 0-day. FRAC U13 .

**Inspire Super** | **cyprodinil , difenoconazole** | 16-20 fl. oz. per acre. REI: 12-hour. PHI: 7-day. FRAC 09 . FRAC 03 .

**Luna Experience** | **fluopyram , tebuconazole** | 6-17 fl. oz. per acre. REI: 12-hour. PHI: 7-day. FRAC 07 . FRAC 03 .

**Luna Flex** | **difenoconazole , fluopyram** | 8 fl. oz. per acre. REI: 12-hour. PHI: 0-day. FRAC 03 . FRAC 07 .

**Luna Sensation | fluopyram , trifloxystrobin** | 4-7.6 fl. oz. per acre. REI: 12-hour. PHI: 0-day. FRAC 07 .  
FRAC 11 .

**Merivon | fluxapyroxad , pyraclostrobin** | 4-5.5 fl. oz. per acre. REI: 12-hour. PHI: 0-day. FRAC 07 .  
FRAC 11 .

**Microthiol Disperss | sulfur** | 5-10 lbs. per acre. REI: 24-hour. PHI: 0-day. FRAC M02 , IRAC UN .  
OMRI-listed.

**Miravis Prime | fludioxonil , pydiflumetofen** | 9.2-11.4 fl. oz. per acre.

An adjuvant may be added at recommended rates.

REI: 12-hour. PHI: 1-day. FRAC 12 . FRAC 07 .

**Procure 480SC | triflumizole** | 4-8 fl. oz. per acre. REI: 12-hour. PHI: 0-day. FRAC 03 .

**Proline 480SC | prothioconazole** | 5.7 fl. oz. per acre.

May be applied by ground or chemigation application equipment. Do not use in water used for hand  
transplanting

REI: 12-hour. PHI: 7-day. FRAC 03 .

**Prolivo 300SC | pyriofenone** | 4-5 fl. oz. per acre. REI: 4-hour. PHI: 0-day. FRAC 50 .

**Quintec | quinoxifen** | 4-6 fl. oz. per acre.

May cause leaf yellowing. Product is a contact fungicide. Labeled for winter squash-not summer squash.

REI: 12-hour. PHI: 3-day. FRAC 13 .

**Rally 40WSP | myclobutanil** | 2.5-5.0 oz. per acre. REI: 24-hour. PHI: 0-day. FRAC 03 .

**Rhyme | flutriafol** | 5-7 fl. oz. per acre. REI: 12-hour. PHI: 0-day. FRAC 03 .

**tebuconazole products | tebuconazole** | 6-8 fl. oz. per acre.

There are many 38.7% formulations (Monsoon, Onset, Toledo, Vibe) that use the same rate.

REI: 12-hour to 18-day. PHI: 7-day. FRAC 03 .

**Torino | cyflufenamid** | 3.4 oz. per acre. REI: 4-hour. PHI: 0-day. FRAC U06 .

**Velum Prime | fluopyram** | 6.5-6.84 fl. oz. per acre.

Apply through drip irrigation. Do not exceed 13.7 fl. oz. per acre per season. Allow 5 days between  
applications. May cause a mild yellowing of leaf margins.

REI: 12-hour. PHI: 0-day. FRAC 07 .

**Vivando | metrafenone** | 15.4 fl. oz. per acre. REI: 12-hour. PHI: 0-day. FRAC 50 .

**Wettable Sulfur | sulfur** |

Rates vary by product. Use 80% sulfur products at 5-10 lb. per acre (Microthiol Disperss), 5-25 lb. per acre  
(Sulfur 80 WDG), or 20-25 lb. per acre (Sulfur Dry Flowable, Thiolut). Use 90% sulfur at 2-4 lb. per acre

(Golden Micronized Sulfur) or 15-20 lb. per acre (Sulfur 90W).

REI: 24-hour. PHI: 0-day. FRAC M02 , IRAC UN . OMRI-listed.

## Cucumber

Powdery mildew is primarily a disease of cantaloupe, cucumber, pumpkin, and squash. This disease does not require leaf wetness for disease initiation or spread.

*At vine touch*, begin systemic fungicide applications at bush stage of pumpkin growth. Protect pumpkin vines until approximately 21 days from last harvest. Some pumpkin varieties have partial resistance to powdery mildew.

Fungicide resistance has been detected in the Midwest. Fungicides in FRAC 1 and 11 may not be effective. Fungicides that are effective include Cabrio, Flint, Gatten, Inspire Super, Luna Flex, Procure, Quintec, Quadris, Rhyme, Satori, Sovran, Torino, and Topsin. Alternate fungicides between MOA groups.

## Non-Pesticide

### Non-Pesticide Options

Rotate to non-cucurbit crops for 2 years. Resistant or partially resistant cantaloupe, cucumber and pumpkin cultivars are available. Prompt destruction of the finished crop with tillage to rapidly breakdown tissue is an important method to prevent disease build-up.

## Pesticide

**Aprovia Top | benzovindiflupyr , difenoconazole** | 10.5-13.5 fl. oz. per acre. REI: 12-hour. PHI: 0-day. FRAC 07 . FRAC 03 .

**Fontelis | penthiopyrad** | 12-16 fl. oz. per acre.

In the greenhouse use a rate of 0.5 fl. oz. per gallon per 1,360 sq. ft.

REI: 12-hour. PHI: 1-day. FRAC 07 .

**Gatten | flutianil** | 6-8 fl. oz. per acre. REI: 12-hour. PHI: 0-day. FRAC U13 .

**Inspire Super | cyprodinil , difenoconazole** | 16-20 fl. oz. per acre. REI: 12-hour. PHI: 7-day. FRAC 09 . FRAC 03 .

**Luna Flex | difenoconazole , fluopyram** | 8 fl. oz. per acre. REI: 12-hour. PHI: 0-day. FRAC 03 . FRAC 07 .

**Luna Sensation | fluopyram , trifloxystrobin** | 4-7.6 fl. oz. per acre. REI: 12-hour. PHI: 0-day. FRAC 07 . FRAC 11 .

**Merivon | fluxapyroxad , pyraclostrobin** | 4-5.5 fl. oz. per acre. REI: 12-hour. PHI: 0-day. FRAC 07 . FRAC 11 .

**Microthiol Disperss | sulfur** | 5-10 lbs. per acre. REI: 24-hour. PHI: 0-day. FRAC M02 , IRAC UN . OMRI-listed.

**Miravis Prime | fludioxonil , pydiflumetofen** | 9.2-11.4 fl. oz. per acre.

An adjuvant may be added at recommended rates.

REI: 12-hour. PHI: 1-day. FRAC 12 . FRAC 07 .

**Procure 480SC | triflumizole** | 4-8 fl. oz. per acre. REI: 12-hour. PHI: 0-day. FRAC 03 .

**Prolivo 300SC | pyriofenone** | 4-5 fl. oz. per acre. REI: 4-hour. PHI: 0-day. FRAC 50 .

**Rally 40WSP | myclobutanil** | 2.5-5.0 oz. per acre. REI: 24-hour. PHI: 0-day. FRAC 03 .

**Rhyme | flutriafol** | 5-7 fl. oz. per acre. REI: 12-hour. PHI: 0-day. FRAC 03 .

**tebuconazole products | tebuconazole** | 6-8 fl. oz. per acre.

There are many 38.7% formulations (Monsoon, Onset, Toledo, Vibe) that use the same rate.

REI: 12-hour to 18-day. PHI: 7-day. FRAC 03 .

**Torino | cyflufenamid** | 3.4 oz. per acre. REI: 4-hour. PHI: 0-day. FRAC U06 .

**Velum Prime | fluopyram** | 6.5-6.84 fl. oz. per acre.

Apply through drip irrigation. Do not exceed 13.7 fl. oz. per acre per season. Allow 5 days between applications. May cause a mild yellowing of leaf margins.

REI: 12-hour. PHI: 0-day. FRAC 07 .

**Vivando | metrafenone** | 15.4 fl. oz. per acre. REI: 12-hour. PHI: 0-day. FRAC 50 .

**Wettable Sulfur | sulfur** |

Rates vary by product. Use 80% sulfur products at 2-4 lb. per acre (Microthiol Disperss, Sulfur Dry Flowable), 2-6 lb. per acre (Thiolux), or 2-10 lb. per acre (Sulfur 80 WDG). Use 90% sulfur at 15-20 lb. per acre (Sulfur 90W).

REI: 24-hour. PHI: 0-day. FRAC M02 , IRAC UN . OMRI-listed.

## Pumpkin

Powdery mildew is primarily a disease of cantaloupe, cucumber, pumpkin, and squash. This disease does not require leaf wetness for disease initiation or spread.

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## Pesticide

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**Fontelis | penthiopyrad** | 12-16 fl. oz. per acre.

In the greenhouse use a rate of 0.5 fl. oz. per gallon per 1,360 sq. ft.

REI: 12-hour. PHI: 1-day. FRAC 07 .

**Gatten | flutianil** | 6-8 fl. oz. per acre. REI: 12-hour. PHI: 0-day. FRAC U13 .

**Inspire Super | cyprodinil , difenoconazole** | 16-20 fl. oz. per acre. REI: 12-hour. PHI: 7-day. FRAC 09 . FRAC 03 .

**Luna Experience | fluopyram , tebuconazole** | 6-17 fl. oz. per acre. REI: 12-hour. PHI: 7-day. FRAC 07 . FRAC 03 .

**Luna Flex | difenoconazole , fluopyram** | 8 fl. oz. per acre. REI: 12-hour. PHI: 0-day. FRAC 03 . FRAC 07 .

**Luna Sensation | fluopyram , trifloxystrobin** | 4-7.6 fl. oz. per acre. REI: 12-hour. PHI: 0-day. FRAC 07 . FRAC 11 .

**Merivon | fluxapyroxad , pyraclostrobin** | 4-5.5 fl. oz. per acre. REI: 12-hour. PHI: 0-day. FRAC 07 . FRAC 11 .

**Microthiol Disperss | sulfur** | 5-10 lbs. per acre. REI: 24-hour. PHI: 0-day. FRAC M02 , IRAC UN . OMRI-listed.

**Miravis Prime | fludioxonil , pydiflumetofen** | 9.2-11.4 fl. oz. per acre.

An adjuvant may be added at recommended rates.

REI: 12-hour. PHI: 1-day. FRAC 12 . FRAC 07 .

**Procure 480SC | triflumizole** | 4-8 fl. oz. per acre. REI: 12-hour. PHI: 0-day. FRAC 03 .

**Proline 480SC | prothioconazole** | 5.7 fl. oz. per acre.

May be applied by ground or chemigation application equipment. Do not use in water used for hand transplanting

REI: 12-hour. PHI: 7-day. FRAC 03 .

**Prolivo 300SC | pyriofenone** | 4-5 fl. oz. per acre. REI: 4-hour. PHI: 0-day. FRAC 50 .

**Quintec | quinoxyfen** | 4-6 fl. oz. per acre.

May cause leaf yellowing. Product is a contact fungicide. Labeled for winter squash-not summer squash.

REI: 12-hour. PHI: 3-day. FRAC 13 .

**Rally 40WSP | myclobutanil** | 2.5-5.0 oz. per acre. REI: 24-hour. PHI: 0-day. FRAC 03 .

**Rhyme | flutriafol** | 5-7 fl. oz. per acre. REI: 12-hour. PHI: 0-day. FRAC 03 .

**tebuconazole products | tebuconazole** | 6-8 fl. oz. per acre.

There are many 38.7% formulations (Monsoon, Onset, Toledo, Vibe) that use the same rate.

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**Torino | cyflufenamid** | 3.4 oz. per acre. REI: 4-hour. PHI: 0-day. FRAC U06 .

**Velum Prime | fluopyram** | 6.5-6.84 fl. oz. per acre.

Apply through drip irrigation. Do not exceed 13.7 fl. oz. per acre per season. Allow 5 days between applications. May cause a mild yellowing of leaf margins.

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**Vivando | metrafenone** | 15.4 fl. oz. per acre. REI: 12-hour. PHI: 0-day. FRAC 50 .

**Wettable Sulfur | sulfur** |

Rates vary by product. Use 80% sulfur products at 5-10 lb. per acre (Microthiol Disperss, Sulfur Dry Flowable, Sulfur 80 WDG, Thiolux). Use 90% sulfur at 2-4 lb. per acre (Golden Micronized Sulfur) or 15-20 lb. per acre (Sulfur 90W).

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## Squash

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## Pesticide

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**Inspire Super | cyprodinil , difenoconazole** | 16-20 fl. oz. per acre. REI: 12-hour. PHI: 7-day. FRAC 09 . FRAC 03 .

**Luna Flex | difenoconazole , fluopyram** | 8 fl. oz. per acre. REI: 12-hour. PHI: 0-day. FRAC 03 . FRAC 07 .

**Luna Sensation | fluopyram , trifloxystrobin** | 4-7.6 fl. oz. per acre. REI: 12-hour. PHI: 0-day. FRAC 07 . FRAC 11 .

**Merivon | fluxapyroxad , pyraclostrobin** | 4-5.5 fl. oz. per acre. REI: 12-hour. PHI: 0-day. FRAC 07 . FRAC 11 .

**Microthiol Disperss | sulfur** | 5-10 lbs. per acre. REI: 24-hour. PHI: 0-day. FRAC M02 , IRAC UN . OMRI-listed.

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**Procure 480SC | triflumizole** | 4-8 fl. oz. per acre. REI: 12-hour. PHI: 0-day. FRAC 03 .

**Prolivo 300SC | pyriofenone** | 4-5 fl. oz. per acre. REI: 4-hour. PHI: 0-day. FRAC 50 .

**Quintec | quinoxifen** | 4-6 fl. oz. per acre.

May cause leaf yellowing. Product is a contact fungicide. Labeled for winter squash-not summer squash.

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**Rhyme | flutriafol** | 5-7 fl. oz. per acre. REI: 12-hour. PHI: 0-day. FRAC 03 .

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**Vivando | metrafenone** | 15.4 fl. oz. per acre. REI: 12-hour. PHI: 0-day. FRAC 50 .

**Wettable Sulfur | sulfur** |

Rates vary by product. Use 80% sulfur products at 5-10 lb. per acre (Microthiol Disperss, Sulfur Dry Flowable, Sulfur 80 WDG, Thiolut). Use 90% sulfur at 2-4 lb. per acre (Golden Micronized Sulfur) or 15-20 lb. per acre (Sulfur 90W).

REI: 24-hour. PHI: 0-day. FRAC M02 , IRAC UN . OMRI-listed.

## Watermelon

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Exported on 06/17/2026 date from the interactive version of the Midwest Vegetable Production Guide for Commercial Growers, published by Purdue Extension, West Lafayette, IN. <http://mwveguide.org>. The online guide was supported by the USDA National Institute of Food and Agriculture, Crop Protection and Pest Management Program through the North Central IPM Center (2018-70006-28883), MSU Extension, and donations from the Michigan Vegetable Council, the Indiana Vegetable Growers Association, and the Kansas Vegetable Growers Association. For full print version see <http://mwveguide.org/guide>. The management practices, products, and cultivars discussed in this publication are the research- and experience-based recommendations of the institutions associated with the contributing editors and authors. These recommendations are not exhaustive and other practices and products not mentioned in this guide might also be effective. *Read and follow label instructions before using any pesticide product.*