

2025 Cucurbit Powdery Mildew list of conventional and organic (red font**) fungicides labeled for Powdery Mildew Control in Pumpkins, Winter Squash and Gourds. Please be sure to read the labels of the products you are using – this table is not a substitution for the information contained on the label that is attached to the product container. Products in **orange** are DMI's from the same FRAC group 3 and need to be rotated accordingly and products in **green** contain both Group 3 and 7 products. Products in **RED** are labeled for organic use but you should check with your certifying agency to be sure they are acceptable.**

Fungicide	FRAC Code	Recommended Rate/Acre	REI	PHI	Seasonal Limits	Comments
Vivando (Metrafenone)	U8	15.4 fluid oz	12 hrs	0 days	3 applications	Do not mix with horticultural oils Do not apply more than 46.2 fl ozs/A per year. Do not make more than 2 sequential applications before switching to another FRAC Code
Proливо (pyriofenone)	50	4-5 fluid ounces	4 hours	0 days	3-4 maximum applications per season, no more than 2 consecutive	The addition of organo-silicon blends or non-ionic surfactants (NIS) is recommended. Maximum seasonal use rate is 16.0 fluid ounces per acre
Procure 480 SC (Triflumizole)	3	8 fluid oz	12 hrs	0 days	40 fluid ounces total	No more than 2 sequential applications should be made before switching to another FRAC Code
Proline 480 SC (Prothioconazole)	3	5.5 fluid oz	12 hrs	0 days	2 sprays	Recommend using a non-ionic surfactant. Also labeled for Fusarium.
Rhyme (Flutriafol)	3	7.0 fluid oz	12 hrs	0 days	4 applications or 28 fluid ounces	Addition of a spreading/penetrating type adjuvant such as organo-silicon blends with either non-ionic surfactants (NIS) with at least 90% concentration or vegetable based crop oil concentrate (COC, not mineral) is recommended.
Aprovia Top (difenoconazole + benzovindiflupyr)	3 + 7	10.5 – 13.5 fluid ounces	12 hrs	0 days	4 applications max, no more than 2 consecutive	Use caution when using other difenoconazole containing materials like Luna Flex as to not go over the maximum amount of difenoconazole that can be used.
Luna Experience (tebuconazole + fluopyram)	3 + 7	6 – 17 fluid ounces	12 hrs	7 days	No more than 2 consecutive applications	Maximum seasonal use rate is 34 fluid ounces per acre (2 applications of 17 fluid ounces).
Miravis Prime	12 + 7	9.2 – 11.4 fluid ounces	12 hrs	1 day	2 applications max (30.8 fluid ounces per acre per season), no more than 2 consecutive	Use a spreading/penetrating type adjuvant including a non-ionic surfactant, crop oil concentrate, silicone based, or blend must be added
Chlorothalonil (Bravo or other labeled formulation)	M5	See specific label	12 hrs	0 days		Please note the "Special Eye Irritation Provisions" on the label

Fungicide	FRAC Code	Recommended Rate/Acre	REI	PHI	Seasonal Limits	Comments
Microthiol Disperss or other labeled product (sulfur)	M2	Rates vary according to formulation and crop	24 hours	See label	Do not use if you have applied an oil application within 2 weeks. Do not apply if temperatures will be over 90 degrees Fahrenheit, Use caution on melons.	
Regalia ²	P5	1—4 quarts/acre	4 hrs	0 days		Apply in 25 – 100 gallons of water per acre. Use on a 7-10 interval
Trilogy ²	NC	0.5—1%	4 hrs	0 days		Can be highly toxic to bees
JMS Stylet Oil ²	NC	3—6 quarts per 100 gallons water	4 hrs	0 days		Use caution in high temperature and humidity.
Stargus (<i>Bacillus amyloliquefaciens</i> strain F727)	BM02	0.5 – 4 quarts/acre	4 hours	0 days		Apply this product 10-100 gallons of water per acre, 7-10 day intervals.
Theia (<i>Bacillus subtilis</i> strain AFS032321)	BM02	1.5 – 5.0 lbs/acre	4 hours	0 days		Begin applications prior to infection and continue on a 7–10 day interval as needed. Also labeled for Downy Mildew and several other diseases.
Potassium Bicarbonate (MilStop, Armicarb, Kaligreen etc.) ²	NC	2.5—5.0 lbs	Varies by Product – Read the label!			Please be sure to read the label of the particular product you have as rates and the use of spreader/stickers vary from one product to the next.
Actinovate AG ²	NC	3—12 ozs	1 hr	0		Requires a spreader/sticker such as NuFilm P or other approved material Use in 20-150 gallons of water/acre Apply on a 7-14 day schedule
Copper	Various formulations please see labels for more information					
Double Nickel 55 Biofungicide	NA	.25—3.0 lbs	4 hours	0 days		Use 0.25 –1.0 lb under low disease pressure and 1.0—3.0 under higher disease pressure.

² Approved for organic use, but be sure to double check with your certifying organization.

³ There are 2 formulations of Luna products but only Luna Experience is recommended for PM and it is the better choice for gummy stem blight.