

**Table 1: Recommended 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 contain at least 1 active ingredient from the same FRAC group and need to be rotated accordingly. 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)	50	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
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	7 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	
Luna Experience <sup>3</sup> (fluopyram) (tebuconazole)	7 & 3	17.0 fluid ounces	12 hrs	7 days	Do not apply more than 34.0 fluid ounces per acre per year	Do not make more than 2 sequential applications before switching to another fungicide not in Group 7 or 3 So do not use Procure, Proline or Rhyme following this material). Also has Gummy stem blight on the label at 10.0—17 fl ozs/acre
Aprovia Top (difenoconazole + benzovindiflupyr)	3 +7	10.5-13.5 fluid ounces per acre	12 hrs	0 days	Do not apply more than 53.6 fl oz/A/year	Recommends the addition of a spreading/penetrating type adjuvant(see label for specifics). DO NOT apply within 15 ft of bodies of water such as lakes, reservoirs, rivers, permanent streams, natural ponds, marshes or estuaries.
Chlorothalonil (Bravo or other labeled formulation)	M5	See specific label	12 hrs	0 days		Please note the “Special Eye Irritation Provisions” on the label
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.	
Miravis Prime (pydiflumetofen) (fludioxonil)	7&12	9.2 - 11.4 fluid ounces	12 hrs	1 day	22.8 fl oz/A/year (two applications per year)	Do not apply within 75 ft of bodies of water such as lakes, reservoirs, rivers, permanent streams, natural ponds, marshes, or estuaries.

Regalia <sup>2</sup>	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 <sup>2</sup>	NC	0.5—1%	4 hrs	0 days		Can be highly toxic to bees
JMS Stylet Oil <sup>2</sup>	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.) <sup>2</sup>	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 <sup>2</sup>	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.

<sup>1</sup> Do not use on edible peel cucurbits (summer squash, cucumbers).

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

<sup>3</sup> 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.