

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 are mixes of multiple products that 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	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	
Gatten (flutianil)	U13	8.0 fluid oz per acre	12 hrs	0 days	2 sprays	DO NOT apply more than 16 fl oz product/acre. Use water volumes of 30 to 100 gallons per acre for sprays.
Quintec ¹ (quinoxyfen)	13	6 – 8 oz per acre	12 hrs	3 days	4 applications or 32 fluid ounces	<u>Do not use on edible peel cucurbits (ie: cucumbers, green and yellow summer squash).</u> Do not apply more than two consecutive applications of Quintec before alternating to a different mode of action. The total number of group 13 fungicide sprays per crop should not exceed 50% of the total number of powdery mildew sprays. A nonionic or organosilicone surfactant may improve coverage. Penetrants and stickers are not recommended.
Luna Experience ³ (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

Chlorothalonil (Bravo or other labeled formulation)	M5	See specific label	12 hrs	0 days		Please note the “Special Eye Irritation Provisions” on the label
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 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		
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.

¹ Do not use on edible peel cucurbits (summer squash, cucumbers).

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.