

Table 1: Fungicides labeled for Cucurbit Downy Mildew and Phytophthora Blight Control in cucurbits. Products in RED are labeled for organic use but you should check with your certifying agency to be sure.

Fungicide	FRAC Code	Recommended Rate/Acre	REI	PHI	Seasonal Limits	Adjuvant Recommendations
Ranman 400 SC ¹ (cyazofamid)	21	2.75 fluid ounces	12 hours	0 days	6 sprays	Organosilicone or non-ionic surfactant
Orondis Ultra ¹ (oxathiaptplin + mandipropamid)	49 + 40	5.5 – 8.0 fluid ounces	4 hours	0 days	See label for special notes	non-ionic or organosilicone surfactant. Should also be mixed with a copper fungicide. 4 sprays or 33% of applications
Orondis Opti (oxathiaptplin + chlorothalonil)	49+M5	1.75 – 2.5 pt	12 hours	0 days		4 sprays or 33% of total fungicide applications
Tanos 50 DF ¹ (cymoxanil + famoxadone)	27 + 11	8 ounces	12 hours	3 days	4 sprays	
Omega 500 SC ¹ (fluazinam)	29	0.75 – 1.5 pt	12 hours	See notes	See label	PHI – 7 days pumpkins, cucumbers, squash; 30 days melons and watermelons
Curzate 60 DF ¹ (cymoxanil)	27	5 ounces	12 hours	3 days	9 sprays	Include with one of the other materials listed if DM is detected because this product has a very short residual but has exhibited some burnout activity.
Zampro ¹ (ametoctradin + dimethomorph)	40 + 45	14 fluid ounces	12 hours	0 days	3 sprays	
Zing! (zoxamide + chlorothalonil)	22 + M5	36 fluid ounces	12 hours	0 days	8 sprays	Actual rate of chlorothalonil is below the recommended rate to control DM or PM. Additional chlorothalonil should be added for optimal control (0.43 – 1.43 pints Bravo WeatherStik)
Phostrol, ProPhyt, Fosphite (phosphorus acid containing products)	33	2.5-5.0 pints*	4 hours	0 days	7 sprays	*Rates vary depending on product used. Please review the label for the correct rates.
Copper—Various formulations please see labels for more information						
Regalia Biofungicide	NA	1—4 quarts	4 hours	0 days	NA	Should be applied with copper fungicide
Serenade ASO Bacillus subtilis str QST 713)	NA	2—6 quarts – see label for rates.	4 hours	0 days	NA	Only labeled for <i>Phytophthora parasitica</i> so knowing which species you have is important!

Actinovate AG <i>(Streptomyces lydicus WYEC 108)</i>	NA	3 –12 fluid ounces	1 hour or until dry	0 days	NA	
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¹Should mix with a protectant partner such as chlorothalonil.
None of the above fungicides will control Powdery Mildew with the exception of Regalia Biofungicide, Serenade ASO and Actinovate AG.