

Fungicides Registered for Cucurbit Diseases

Fungicide			Resistance factors		Relative performance ⁴			
Trade name and rate/A	Common name	Action ¹	MOA group ²	Risk ³	A	GSB	DM	PM
Broad-spectrum fungicides								
Bravo, Echo, Equus, Applause, Chloronil, or Chlorothalonil 6F 2 - 3 pt	chlorothalonil	P	M	L	+++	++	+++	++
Dithane, Manzate, or Penncozeb 75DF 2 - 3 lb	mancozeb	P	M	L	+++	+	++	+
Maneb 75DF 2 lb	maneb	P	M	L	++	+	++	+
Amistar 80DF 2-5 oz	azoxystrobin	S	11	H	+++	-	++	+
Quadris 2.08F 11-15 fl oz	azoxystrobin	S	11	H	+++	-	++	+
Cabrio 20WG 0.75-1 lb	pyraclostrobin	S	11	H	+++	-	++	+
Quadris Opti 5.5F 3.2 pt	azoxystrobin	S	11	H	+++	++	+++	++
	chlorothalonil	P	M	L				
Pristine 38DF 12.5 -18.5 oz	pyraclostrobin	S	11	H	+++	+++	++	++
	boscalid	S	7	M				
Kocide, Champ, or Nu Cop 50W 1.5 - 3 lb	copper hydroxide	P	M	L	+	+	+	+
Mankocide DF 2 - 4 lb	copper hydroxide	P	M	L	++	+	++	+
	mancozeb	P	M	L				
Cuprofix 20DF 2.5 lb	copper sulfate	P	M	L	+	+	+	+
Cuprofix MZ 4 - 7.25 lb	copper sulfate	P	M	L	++	+	++	+
	mancozeb	P	M	L				

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Anthraco­se fungicides

Topsin 70W 0.5 lb	thiophanate methyl	S	1	H	+++	+	-	+
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Downy mildew fungicides

Acrobat 50W 6.4 oz Forum 4.18F 6 fl oz	dimethomorph	S	15	L-M	-	-	+	-
Aliette 80WG 3 - 5 lb	fosetyl-AL	S	33	L	-	-	+	-
Curzate 60DF 3.2 oz	cymoxanil	S	27	L-M	-	-	++	-
Gavel 75W 1.5 - 2 lb	mancozeb	P	M	L	++	++	+++	+
	zoxamide	S	22	L-M				
Phostrol or Agri-Fos 2.5 - 5 pt	phosphorous acid	S	33	L	-	-	+	-
Previcur Flex 6S 1.2 pt	propamocarb	S	28	L-M	-	-	+++	-
Ranman 3.3F 2.1-2.75 fl oz	cyazofamid	S	21	M-H	-	-	+++	-
Reason 4F 5.5 fl oz	fenamidone	S	11	H	-	-	++	-
Ridomil Gold Bravo 76W 2-3 lb	mefenoxam	S	4	H	+++	++	+++	++
	chlorothalonil	P	M	L				
Ridomil Gold Copper 65W 2 lb	mefenoxam	S	4	H	+	+	++	+
	copper hydroxide	P	M	L				
Ridomil Gold MZ 68W 2.5 lb	mefenoxam	S	4	H	+++	++	+++	+
	mancozeb	P	M	L				
Tanos 50DF 8 oz	famoxadone	S	11	H	-	-	+++	-
	cymoxanil	S	27	L-M				

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Powdery mildew fungicides

Flint 50WG 1.5-2 oz	trifloxystrobin	S	11	H	++	-	+	++
Microthiol or Kumulus 80DF 4-6 lb	sulfur	P	M	L	-	-	-	+++
Nova or Rally 40W 2.5 - 5 oz	myclobutanil	S	3	M	-	-	-	++
Procure 50W 4 - 8 oz	triflumizole	S	3	M	-	-	-	++
Quintec 2.08F 4 - 6 lb	quinoxifen	S	13	M	-	-	-	+++

¹ P=protectant, S=systemic or penetrant.

² Numbers represent groups with similar single-site modes of action, M= multi-site activity.

³ Risk for development of fungicide resistance: H = high, M = medium, L = low. See labels for resistance management strategies.

⁴ (+++) = excellent, (++) = good, (+) = fair, and (-) = no control for anthracnose (A), gummy stem blight (GSB), downy mildew (DM), and powdery mildew (PM).

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