

# 2017 Downy Mildew Control Strategy for Cucumber Crops

Elaine Roddy, Vegetable Crop Specialist, OMAFRA, Ridgetown

## Infosheet

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The three most consistently effective downy mildew fungicides are Orondis Ultra, Torrent and Zampro. See Table 1, *Cucumber Downy Mildew Control*. Under high risk conditions, or when downy mildew is identified in the Great Lakes Region, use the most efficacious product first. Always rotate between all three targeted downy mildew fungicides. Never make back-to-back applications of products from the same chemical family. Orondis Ultra is best used early in the cropping cycle, as soon as the disease is identified in the Great Lakes Region, followed by applications of Torrent and Zampro on a 7-day interval. The three-product program may be repeated, if necessary.

Table 1. Cucumber Downy Mildew Control					
Group Name (Group #)	Common Name	Trade Name	Rate per Hectare (Rate per Acre)	Pre Harvest Interval	Notes
<b>Broadspectrum Preventative Fungicides</b> (Begin applications no later than vine development.)					
dithiocarbamate (group M3)	mancozeb	Dithane Rainshield	1.1–3.25 kg (0.4–1.3 kg)	14	24-hour re-entry interval.
		Penncozeb 75DF Raincoat			
		Manzate Pro-Stick	2.25–3.25 kg (0.9–1.3 kg)		
chloronitrile (group M5)	chlorothalonil	Bravo ZN	4.8 L (1.9 L)	2	48-hour re-entry interval.
<b>Downy Mildew–Targeted Preventative Fungicides</b>					
Begin applications when weather conditions favour downy mildew or if downy mildew is identified anywhere in the Great Lakes region.					
QiL (group 21)	cyazofamid	Torrent 400SC	150–200 mL (61–81 mL)	1	Tank mix with an NIS or Organosilicone surfactant. Do not make sequential applications. 12-hour re-entry interval.
QxI (group 45) Carboxylic acid amide (group 40)	ametoctradin/ dimethomorph	Zampro	0.8-1 L (0.3-0.4 L)	1	See label for guidance on adjuvant use, crop rotation restrictions and re-entry intervals. Do not make sequential applications.
Carboxylic acid amide (group 40)	mandipropamid	Orondis Ultra A	400-600 mL (162-243 mL)	0	Product A is for <b>suppression only</b> and must be tank-mixed with Bravo 500. Under heavy disease pressure, use a higher rate of product B. Do not make sequential applications. 12-hour re-entry interval.
OSBP inhibition (group U15)	oxathiapiprolin	Orondis Ultra B	87.5-350 mL (35-142 mL)	0	

**For more information:**  
**Telephone:** 1-519-674-1616  
**E-mail:** elaine.rodny@ontario.ca

**[www.ontario.ca/omafra](http://www.ontario.ca/omafra)**