

Ridgetown Resource Centre  
P.O. Box 400, 120 Main St. East  
Agronomy Building, Ridgetown College  
Ridgetown ON, N0P 2C0  
Tel: (519) 674-1616  
Fax: (519) 674-1564

## VEGETABLE CROP UPDATE

VINE CROPS EDITION  
June 27, 2007

Prepared by: Elaine Roddy, Vegetable Crop Specialist

On Tuesday June 26, 2007 downy mildew was confirmed in New York, Ohio, Michigan and North Carolina.

A confirmed case of downy mildew has been reported on a small (3 ac) slicing cucumber field in Elgin County, Ontario. The level of infection in this field is reported to be very low.

Despite the hot dry conditions, all Ontario cucumber growers should be applying preventative fungicides every **5-7 days**. While melons, pumpkins, zucchini and squash are somewhat more resistant to downy mildew; growers of these crops should still follow a 7-10 day preventative spray schedule.

Tanos 50 DF is an excellent downy mildew product. Do not apply it more than once before rotating to a product from a different chemical family.

**DO NOT WAIT UNTIL YOU SEE SYMPTOMS TO SPRAY.** Unprotected crops are at the highest risk of experiencing serious losses to this disease.



Newly and Severely DM Infected Leaves



DM Spores on Lower Leaf Surface

## Gummy Stem Blight

We have also had a few recent reports of Gummy Stem Blight in cucumber fields. While not as destructive as downy mildew; gummy stem blight can cause premature defoliation and reduce crop yields. It is particularly problematic in pumpkins and squash as it infects the fruit, causing fruit rot and decay during harvest. Gummy stem blight also causes alligator skin in butternut squash and black rot in pumpkins.



Bravo, Cabrio and mancozeb will all provide control of gummy stem blight.

## Fungicides Registered for use on Downy Mildew in Cucurbits

Fungicide	Chemical Family	Rate	PHI	Fungicide Type
<i>mancozeb</i> Dithane DG <u>or</u> Manzate DF <u>or</u> Penncozeb 80 WP	M2	1.3 kg/ac	14	Broad Spectrum
<i>chlorothalonil</i> Bravo 500	M4	1.9 L/ac	1	Broad Spectrum
<i>famoxadone/cymoxanil</i> Tanos 50 DF	11/27	224 g/ac	3	Targeted
<i>propamocarb/chlorothalonil</i> Tattoo C	28/M4	0.72-1.1 L/ac	2	Targeted
<i>pyraclostrobin</i> Cabrio EG	11	336 g/ac	3	Broad Spectrum (single mode of action)

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