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VEGETABLE CROP UPDATE

VINE CROPS EDITION

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Emergency Use Registrations for Downy Mildew Control

The PMRA recently announced the emergency use registration of two new for downy mildew control products in vine crops, **Tattoo C** and **Tanos 50 DF**. Copies of the EU labels are attached. These registrations mark an important component in the strategy to manage downy mildew in 2007.

Unfortunately, the PMRA have placed a 7-day pre-harvest interval on Tanos 50 DF. Obviously this will limit the use of Tanos to early season (pre-harvest) applications only, leaving growers with only one targeted downy mildew product (Tattoo C) for the duration of harvest. This is a concern and OMAFRA will continue to work with the PMRA to resolve this issue.

Downy Mildew Fungicide Recommendations

1. Follow a preventative, fungicide program using a broad spectrum, protectant fungicide such as, **Bravo 500** or mancozeb (**Dithane DG**, **Mancozeb DF**, **Penncozeb 80 WP**) every 7-10 days.
 - a. Start spraying as the crop begins to vine, OR if the forecast is calling for cool wet conditions, whichever comes first.
 - b. Consider using a banded application during early growth stages (prior to vining).
 - c. The spray interval may be extended to every 14-days under hot, dry weather conditions.
2. Rotate to a downy mildew targeted fungicide such as, **Tanos 50 DF** and **Tattoo C**:
 - a. IF downy mildew infections begin to move up the eastern sea-board and are forecasted for Ontario or any neighbouring State (New York, Pennsylvania, Ohio, Indiana, Illinois or Michigan), **OR**
 - b. IF downy mildew is identified in Ontario or a neighbouring state, **OR**
 - c. During prolonged periods of wet, humid weather conditions.

3. If downy mildew is identified in Ontario, all growers should follow a 5-7 day rotation between **Tanos 50DF** and **Tattoo C**. Pre-Harvest Intervals are listed in the Fungicide Table, below. Bravo or Cabrio may be incorporated into this rotation during the harvest season to help manage the harvest schedule.
4. Fresh market growers should apply a targeted fungicide, such as Tattoo C or Tanos 50 DF immediately after transplanting; rotated with a second application as soon as the row covers are removed.
5. Always rotate between chemical families, listed in the table below.

Fungicides 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	7	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)

What's Happening Down South?

According to the North Carolina Cucurbit Downy Mildew Forecast for May 29th, the disease is currently present in Southern Florida and Southern Texas. Based on the weather forecast they are predicting unfavorable conditions for both transport and the deposition of spores. Currently the risk of infection is considered to be low.

For the full North Carolina Downy Mildew Report, visit:

<http://www.ces.ncsu.edu/depts/pp/cucurbit/>

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