Ministry of Agriculture, Food and Rural Affairs

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VEGETABLE CROP UPDATE

VINE CROPS EDITION
June 5, 2007

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Tanos 50 DF Emergency Use Update
Good news! The Tanos 50 DF emergency use label has been revised to reflect a 3-day Pre-Harvest Interval. This PHI now matches the US label. Thanks to the PRMA for their support and recognition that the previously announced 7-day PHI was not appropriate for a hand-pick cucumber crop. A copy of the revised label is attached. Please note that there is a 24-hour Re-Entry Interval for this product.

When Do I Start my Preventative Fungicide Program?
Now that the cukes are peeking through the soil, many growers are wondering when to start spraying. At this time we are recommending a basic preventative program using Bravo and/or mancozeb (Dithane, Manzate, Penncozeb). The actual start date will depend somewhat on the weather forecast.

If we continue to experience cool temperatures and periodic rains, start spraying early. Banded applications at the 2-4 leaf stage will reduce the amount of product needed, while providing good coverage of the developing plants. Under continued hot, dry weather conditions, the start date can be delayed to the vine-run stage.

While we will be closely watching the level of downy mildew activity south of the border, and intensively scouting for disease here at home; it is important to remember that low risk does not mean zero chance! The best program is a preventative one. All growers should be following a basic fungicide program throughout the growing season, rotating to the targeted downy mildew fungicides if and when the forecast model or scouting program indicate an increased risk of infection.

Banding
When banding pesticides, apply the recommended rate over the strip of row you wish to treat. Banding does not result in a more concentrated spray mixture. It does allow you to cover more area with the same amount used in a broadcast application.

To know how much to mix, you will first need to calculate the size of the entire treated area. To calculate the total area of all the treated bands:

$$\text{Total Area of Bands} = \frac{\text{Total area of the planted field (acres) x band width (cm or in)}}{\text{row spacing (cm or in)}}$$

For example, a 30 acre field planted on 30" rows and treated with a 10" wide band of fungicide will require only require 10 acres worth of product.

What's Happening Down South?
According to the North Carolina Cucurbit Downy Mildew Forecast for June 5th, the disease remains in Southern Florida and Southern Texas. The spore transport trajectories for the Southern Florida source appear to be heading offshore. The weather patterns in Texas do appear to have a north-easterly trajectory. However the conditions for spore survival and transport are currently rated as unfavourable.

For the full North Carolina Downy Mildew Report, visit:
http://www.ces.ncsu.edu/depts/pp/cucurbit/

Fungicides for use on Downy Mildew in Cucurbits

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

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