



UMASS  
**EXTENSION**

# Cranberry Station Newsletter

JUNE 2004

UMASS CRANBERRY STATION

1 STATE BOG ROAD

P.O. BOX 569

EAST WAREHAM, MA 02538

<http://www.umass.edu/cranberry>

## ADMIRE 2F LABELED FOR SOIL INSECT MANAGEMENT

Last season, Admire 2F (imidacloprid) received approval for use on cranberry for soil insect management. This insecticide is highly systemic (taken up by the plant) with a very long residual (a few months!). Admire 2F is both a contact and stomach poison that interferes with the nervous system, but is still within the group of new, more environmentally compatible compounds.

*Striped colaspis and oriental beetle:* We are fairly confident that Admire 2F will be effective against both striped colaspis and oriental beetle. Work remains to be done to determine efficacy against *Hoplia equina*, cranberry root grub (*Lichnanthe vulpina*) and cranberry white grub (*Phyllophaga anxia*).

*Larvae just-hatching from the egg are targeted—this will occur in the coming weeks.* Admire 2F is far less effective against older grubs—so summer applications are the rule rather than spring or fall. The timing for application is determined by (1) looking for flight of the adults and then making your application to hit hatching eggs in the soil and (2) keeping in mind that Admire 2F is highly toxic to bees (the label states it cannot be applied during bloom).

Because the compound is not greatly soluble in water, the label recommends that irrigation water be applied to the treatment area immediately before and after the treatment to move the compound into the soil. It cannot be applied aerially. A maximum of 32 oz./A/season can be applied, with no more than 2 applications/season and a 30 day PHI. However, our best recommendation is to put **one** application on at the highest rate (32 oz).

*Striped colaspis:* Admire 2F is labeled for 'rootworms,' which in MA is striped colaspis (*Colaspis costipennis*). This insect is most problematic in non-peat bogs where the larvae destroy the roots. The adult

of striped colaspis is a very small (4-5 mm or 1/5 inch long) beetle that has yellow-striped wing covers behind a shiny green 'neck' area. *Check your sweep net for the beetle:* They have just begun to emerge and can be picked up during the day. We find them in infested bogs near the dead/weak areas of vine. The adults feed on the tips of the cranberry uprights and classic damage is apparent as a ragged notching along leaf edges. Admire 2F should be applied within 1-2 weeks after seeing the **peak** flight of adults (but keep bee toxicity in mind).

*Oriental beetle:* We are still relying on efficacy data from turf, nursery, blueberry and other crops that all show good results for oriental beetle (*Exomola orientalis*). Admire 2F may be effective against oriental beetle in cranberry. Oriental beetle wing covers vary in color from straw colored, brown, or even black; often the lighter-colored beetles have black markings. It is similar in size to Japanese beetle (not a cranberry pest), around 1 cm or 3/8 inch long. This beetle should begin to emerge in the next few days with peak numbers in July. Admire 2F would be applied within 3 weeks or earlier after seeing the peak flight of adults. This timing would probably be after mid July in most years.

ANNE AVERILL

### WORKER PROTECTION TRAINING

The final Worker Protection Training for cranberry workers in the Handler category will be on June 30 from 2-4 at the Cranberry Station Library. There is a \$5.00 charge that includes training book and EPA verification card. Contact Marty at 508-295-2212, ext. 20 for additional information and to register.

Carolyn DeMoranville,  
Cranberry Station Director

## FINAL KEEPING QUALITY FORECAST

The Keeping Quality Forecast for June 2004 is **VERY GOOD TO EXCELLENT**.

We calculated 7 of a possible 16 points to arrive at this forecast. This is identical to the total for 2003 except that 4 of the 7 points last year were in the gray area (previous year's sunshine). This time we had a 'no doubt' 4 points for sunshine in 2003. We also were awarded 1 point for March precipitation, 1 point for April precipitation and 1 point for May precipitation. Dry springs are always good. However, this spring was too warm for any points to be garnered for temperature. This is a good year to reduce your fungicide rates and the number of fungicide applications. However, if you have a bed that has had above average rates of fruit rot during the past two years; I would proceed with the normal three fungicide application program. As usual, call me if you have specific questions or concerns about a particular bed.

**FRANK CARUSO**

## CRANBERRY STATION IPM WORKSHOPS

**9 AM - 10:30 AM**

This season, we have been hosting mini-workshops at the Cranberry Station focusing on current pest and management issues. Two indoor sessions and a bogside workshop remain (see below). We have specimens on hand and will also identify problems with materials you bring to us. The format is informal - so come with your questions, bugs, and plants. The final workshop will be held bogside at the Station Bog so that we can look at some in-the-field issues. Each workshop is eligible for one pesticide recertification credit. Mark your calendars with the dates - **no** pre-registration required.

<b>Date</b>	<b>Location</b>
June 15 Tuesday	Cranberry Station Library
June 30 Wednesday	Cranberry Station Library
July 13 Tuesday	Cranberry Station Bogside

The **Cranberry IPM Message** is now up and running with weekly updates. To hear the latest management news call 508-295-2212 X 60 or click the link on the Cranberry Station Web Page.

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