

April 2013

# Cranberry Chronicle

A TerraLink Newsletter

## New Publication

## Welcome to the Cranberry Chronicle!

This is the inaugural edition of the Cranberry Chronicle. Although this chronicle won't be an historical record, it will however record our efforts to help inform you, the members of this growing industry. Cranberry production is very technical and cranberry farmers very much know what they are doing. We're not going to try to tell you what to do. What we will do, is our best to inform you of what's new. We will endeavor to keep you abreast of new products and information as we come across them. If you see something of interest, please call and inquire, or check out our website at [www.tlhort.com](http://www.tlhort.com).

## Feature Fungicide

## Topas 250E fungicide

This broad spectrum systemic fungicide was introduced to the market about 15 years ago. It contains the active ingredient propiconazole, one of the Triazole chemicals (Group 3). Triazoles inhibit the synthesis of sterols, responsible for formation of the cell walls in the fungal pathogen. The lack of normal sterol production slows or stops the growth of the fungus, effectively preventing further infection of host tissues.

Topas 250E is registered on a wide range of crops to control several diseases. In cranberries, Topas 250E is registered for control of Cottonball rot (*Monolinia oxycocci*). Although it does have some curative activity, it is best applied when disease is in the early stage of development as a preventative control measure.

## Biological Pest Control

## Girdler Control With Nematodes

Like Blackheaded Fireworm and Tipworm, the Cranberry Girdler can cause significant damage in our cranberry bogs. Adult moths appear in June, flying at night near the surface of the bog. They have long mouthparts which give them the appearance of having an extended "snout". Girdler also causes damage in turf, forage grass stands and fir tree species. In cranberries, the damage from chewing on the vines can result in large, irregular patches of dead plants. Adults are active for almost two months, laying up to several hundred eggs into the leaf litter. The larvae cause damage, then pupate and overwinter in a cocoon that develops in September or October.

### Control Methods

Cranberry Girdler can be managed in an integrated program. It is best to hire the services of a consultant to monitor Girdler population dynamics. Sand can be top-dressed before eggs are laid by the adults in June, which is believed to cover fungi and moss that the young larvae feed on. Larvae can also be drowned by flooding for up to two days in late August, however keep in mind that if water is left on the bog too long it can cause an increase in fruit rot.

Many cranberry growers now apply entomopathogenic nematodes to control Girdler. The most common is *Steinernema carpocapsae* but *Heterorhabditis bacteriophora* is also available. A rate of 3 billion nematodes per acre is recommended to achieve control. Nematodes can be applied by spraying or chemigation. It is best to apply during cool conditions and to follow application with irrigation, to avoid the nematodes drying out and to rinse the nematodes off the foliage and into the leaf litter.

TerraLink now is a distributor of beneficial entomopathogenic nematodes. On our website [www.tlhort.com](http://www.tlhort.com), type "nematode" into the search bar to download a tech sheet on nematodes for Girdler, as well as other beneficial nematodes for pests in other crops. Alternately, call and inquire with our sales desk at toll free 800-661-4559.

## A New Name

## The Benefits of Stella Maris

Formerly known as Acadian Sea Plants, this all-Canadian product is now known as Stella Maris (Latin for "Star of the Sea"). This help product has been used by producers of many crops across North America for the three decades the company has been in existence. Growers have seen increases in yield and quality, improved plant vigor, and increased root growth and plant establishment. These effects have all been scientifically proven.



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One of the greatest advantages to application of Stella Maris however, is the maximization of resistance to stresses due to temperature extremes. High temperatures can directly reduce plant development, photosynthesis, plant growth and yield. In scientific studies, plants that were deprived of water, and rehydrated, were compared. Those that were treated prior to stress were less wilted and recovered more fully.

The results speak for themselves. For more information on Stella Maris, call the Sales Desk at TerraLink Horticulture.

## Pest Control

# New Registrations in Cranberries

### Movento 240 SC insecticide

A minor use label has just been approved for Movento 240 SC insecticide. It can now be used for control of cranberry tipworm as a post bloom application. 365-435 mL/ha can be used once pests are seen. It can be sprayed or chemigated. Repeat every 7 days, to a maximum of 1.833 L/ha accumulated product per year. The PHI is 7 days.

A Group 23 insecticide, Movento is a systemic product that moves through the xylem and phloem to all areas of the plant. It must be ingested by the immature life stages of the target insect, so it is best applied early in the infestation of the field. Use it in an IPM program, scouting the population before and after treatment.

A second registration was also submitted for girdler. This label addition, which is for a minor use registration, is apparently still in the 'data generation stage' of the registration process. In fact, the label addition cannot be submitted until data collection is complete, and therefore it is not expected soon.

### Aliette WDG fungicide

Bayer CropScience has informed TerraLink that their fungicide Aliette WDG has been approved by the Pest Management Regulatory Agency for control of phytophthora root rot in cranberries. 5.5 kg per hectare may be applied as a foliar spray, up to a maximum of 4 times per year at no closer than 30 day intervals. Do not apply within 3 days PHI, a maximum of 22 kg per hectare per year. Do not re-enter treated fields within 12 hours of spraying.

Please do not construe this as news of a registration. Aliette cannot be used for application to cranberries

## Nutrition

# TigerClaw Fertilizer

Proper nutrition is critical for high yields of large, great colored cranberries. It is the foliar applications of key nutrients at specific timings that will maximize these qualities. Always remember "The Four R's" – Right Nutrient, Right Time, Right Place, Right Form.

An early bloom application of zinc, boron and phosphate will increase berry set, leaf size and fruit size. Repeating phosphate and adding calcium at bloom will benefit cell structure and size of berry. Potassium applied at colour break will further increase size, colour and uniform maturity.

| Timing           | Product                      | Rate          | Comments:   |
|------------------|------------------------------|---------------|---|
| Early Bloom      | TigerClaw SeaCal 4%          | 2 L / acre    | For berry size, weight fruit set                        |
|                  | Stage II Xcelerator          | 1-2 L/acre    |   |
|                  | TigerClaw CBM                | 1 L/acre      |   |
| Full Bloom       | Repeat Above                 | Same as above |   |
| Fast Leaf Growth | TigerClaw Power ZMag         | 2 L / acre    | For large leaves, chlorophyll, fruit size, fruit weight |
|                  | Stage II Xcelerator          | 4 L / acre    |   |
|                  | TigerClaw Calcium            | 2 L / acre    |   |
| Peak Leaf Growth | Repeat Above                 | Same as above |   |
| Colour Break     | TigerClaw Potassium Finisher | 4 L / acre    | For largest, highly coloured berries, uniform maturity  |
| 14 Days Later    | Repeat Above                 | Same as above |   |

Please contact your TerraLink technical sales representative for more detailed information.

until the registration has been received by Bayer from the PMRA. Although it is expected to be imminent, the product is not yet allowed to be used at this time. This information is only meant to inform and does not imply a recommendation by Bayer or its distribution channels.

### Quadris fungicide

Quadris Flowable Fungicide has just been registered on cranberries for control of fruit rot (*Phylospora vaccinii*, *Glomeralla cingulate* and *Coleophoma empetri*) and suppression of Cottonball Rot (*Monolinia oxycocci*). It should be applied starting at 5% bloom, then alternating with other fungicides every 7 to 10 days. The active ingredient of this preventative fungicide is azoxystrobin, a Group 11 chemical.

## Social Media

# Follow Us on Twitter!

Now you can follow TerraLink on Twitter. You will see tweets regarding new pest control registrations, company or industry news, or just



reminders. Follow the link on our web site or find us on your smart phone (@Tlhort).



## Notes to Self

# Crop Inputs at Our Delta Location

If you farm in the Cloverdale area or well to the west of the Abbotsford office of TerraLink, don't forget you can pick up your chemicals, or any crop products for that matter, from our Delta location at 4119 40th Street. Call them up at 604-946-8338 to place orders. Most products are stocked there and others can be brought in for you. And, if you have pets, the store on site has everything you need to take care of pooch!