

Berry Advisor

TerraLink Horticulture Inc.

Featured Product

Delegate™ WG Insecticide



First available in mid 2008, Delegate WG has quickly become a popular and dependable product. Another in Dow AgroSciences line-up of spinosyn class chemicals, this Group 5 insecticide is labeled for control or suppression of lepidoptera in a diverse range of small fruit, tree fruit, vegetable and other crops. Like all Dow AgroSciences spinosyns (Success 480, Entrust and GF-120), Delegate WG's active ingredient, spinetoram, controls insects both through ingestion and contact and has residual activity. It is active across multiple insect growth stages, quickly affecting the insect's nervous system in a unique way compared to other major classes of insecticides. Because of this feature, Delegate WG is an excellent fit in an Integrated Pest Management (IPM) system.

Delegate WG has low toxicity to beneficial predatory insects such as lacewing and ladybird beetle. It is non-toxic to bees once the spray residue is dry three hours after application. However, do NOT apply when bees are actively foraging.

One of the reasons Delegate WG has proven so popular is its excellent insecticidal activity on target pests. It is recommended to rotate between insecticides with different modes of action to reduce the potential for resistance development in target species.



Bruce Spanworm, caterpillar and moth

Delegate WG is registered for control of spanworm in blueberries, Oblique-banded Leafroller (OBLR) in raspberries and thrips in strawberries. It will also control other lepidopteran pests. Delegate WG is one of the products just given an emergency use registration for use against Spotted Wing Drosophila (SWD).



Oblique-banded Leafroller (OBLR), caterpillar and moth

Always read the label before using any pesticide.

Pests

Spotted Wing Drosophila: The Strategy

Since our last Advisor, more work has been done by researchers on Spotted Wing Drosophila (SWD). There have been meetings, seminars and discussions, culminating in the Field Day held at the PARC Abbotsford Research Substation in Abbotsford on May 26. To date, Fraser Valley monitoring programs have not found any SWD flies. Regardless, SWD could become a huge problem for small fruit, stone fruit, grapes and other fruit crops. What do you, the grower, do in the event of a build-up of SWD? Here is the latest plan.

First, you have to know if you have SWD, and if so how many there are. If you think you can watch for them yourself, forget about it. The flies are tiny and the distinguishing features between SWD and a regular fruit fly are obvious only to an entomologist. You can, for the best information, hire monitoring firms to routinely check your own farm. Or you can subscribe to web sites that will give you a general idea what the population levels are in the Fraser Valley. Here are some choices:

- Peerbolt, found at <http://www.berriesnw.com/>.
- BC Blueberry Council "IPM Newsletter" to which registered members can subscribe.
- BCMAL will post the latest monitoring information on their SWD website (see below).

You can also buy or make your own traps. Collect what you trap and take it to the BCMAL office. They will identify any suspect flies. For information on how to make your own traps, go to http://www.al.gov.bc.ca/cropprot/swd_monitoring.pdf.

Second, use cultural controls whenever possible. SWD also infests blackberry and Salmonberry, two really common

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non-crop small fruit plants that often inhabit field edges. Unless these plants exist in a riparian area, destroy them. This will remove a potential reservoir for SWD. Also, until it is confirmed, it is not clear whether SWD lays eggs in cull fruit. To be safe, be meticulous with field hygiene. Choose IPM-friendly chemical controls where possible. Until the continuing research says otherwise, assume natural bio-controls such as Minute Pirate Bug, braconid and cynipid parasitic wasps are part of your control strategy. In strawberries in particular, don't leave any berries on the plants after your final official pick. Those berries will provide an ideal reservoir, so make sure to apply one spray for SWD and then mow the foliage right off.

Third, some emergency use registrations will be in place very soon to help provide more chemical control options. These are Malathion 85 E, Ripcord 400 EC, Delegate WG and Entrust 80 W. They are all toxic to bees, so ONLY use them following blossoming and during fruit development. Again, until research says different, assume the threshold is just one fly found in your field. If you are not having your field monitored, the threshold is one fly in your area. Your sprays are targeting the adult flies. Larvae inside the fruit cannot be controlled. It is reasonable to assume some control will come from the use of other insecticides that are routinely applied to the crop. Organophosphates, synthetic pyrethroids and spinosyns are known to be good to excellent. Neonotinoids and organocarbamates will not work very well on SWD. Keep in mind, synthetic pyrethroids may result in higher populations of mite pests.

For more information call BCMAL in Abbotsford or Kelowna or visit their web page at <http://www.al.gov.bc.ca/cropprot/swd.htm>, or call the Sales Desk at TerraLink, 1-800-661-4559 or 604-864-9044.

Pest Control

What's New in Pest Control Products?

Acramite

This miticide has been given a full registration by the PMRA for control of Two Spotted Spider Mites and McDaniel Mites in raspberry, blackberry and loganberry. Although it can only be used once per season, Acramite can be used up to one day to harvest, with a re-entry interval of 12 hours.

Aliette WDG

A minor use registration has been granted to Aliette WDG fungicide for use in blueberries for control of phytophthora root rot and anthracnose fruit rot, and suppression of Phomopsis canker. Aliette WDG can be used up to four times per year, providing the accumulated amount does not exceed 8.96 kg/acre.

Ripcord 400 EC

This reliable synthetic pyrethroid was just given an emergency use registration for Spotted Wing Drosophila (SWD), starting June 1st. Two applications per year are allowed. Other crops on the emergency use label include grapes and stone fruit.

Malathion 85 E

It must be a long time since this aged organophosphate was given any new or temporary registration. Now, Malathion 85 E has a minor use registration for SWD, June 1st to October 31st of 2010. It is registered for SWD on strawberry, blueberry, raspberry, currant, gooseberry and blackberry. Note the application rate is different depending on the species of small fruit.

Pristine WG

Brand new information – a new label for Pristine WG has been issued with a change in the Re-Entry Interval (REI) in blueberries. The original 29 day REI was a major issue as it dictated no entry into fields sprayed with Pristine WG for at least 29 days. Now, the REI has been corrected and is now 24 hours. This will allow more flexibility for producers.

Berry Boxes, Flats and Baskets

Packaging Solutions for Fresh Market Sales

Blueberry Boxes:



Prices from the packer too low? Try road-side sales for extra cash! For fresh market sales of blueberries, we stock sturdy corrugated

boxes in two sizes: 10 lbs or 5 lbs of fruit. Our boxes have attractive blue and green graphics, with stacking tabs and good ventilation.

Berry Flats:

Look at these beautiful flats! White with colorful red, blue and green graphics of berries on the



sides, they are perfect for fresh market berry sales. These flats will hold twelve of the pressed green fibre pints, or four of the rectangle #1 1/2 size. Or, for a change, eight of the #8K blue foam trays also fit very nicely in the same flat. Talk about versatile!



Baskets and Trays:

We have a wide choice of green pressed fiber berry baskets, including #5, #3, #1.5, quart and pint.

Or try our blue foam trays in two sizes, #8K and #24.



Get Your Crop in Gear

with TerraLink's 3 Stage Drip Fertilizer Program

Stage I: Get your crop rolling with our high phosphorus blend.

Stage II: Accelerate plant growth.

Stage III: Go for the finish line with Green Fruit.

All blends are lab tested and filtered.
Call your reps for ideal usage.

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