

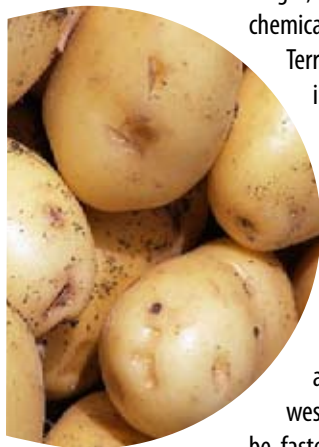
Vegetable Advisor

TerraLink Horticulture Inc.

Newsletter
May 2009

Pick up Chemicals at Roddick's

Chemicals Available From TerraLink in Delta



Don't forget, you can buy chemicals from TerraLink by going into Roddick Feed & Farm Supply at 4119 – 40th Street in Delta. If you farm in the Cloverdale area or to the west, this may be faster for you than coming out to Abbotsford or

waiting for a delivery. All herbicides, insecticides and fungicides for potatoes, blueberries, strawberries and vegetables are stocked there in-season, and the friendly staff can help you just like in Abbotsford. Billing of chemicals is on your TerraLink statement as normal. Come in any time, or call 604-946-8338 to order ahead and have your chemicals waiting for you.



Weed Control in Corn

Controlling Grass Weeds without Atrazine

What happened to atrazine?

Sometime during late 2008, the industry began to be aware that atrazine was not going to be available for 2009, or perhaps never again. This occurred because of increased requirements imposed on registrants of atrazine by the Pest Management Regulatory Agency (PMRA) to perform more groundwater studies. Since atrazine is old chemistry, and providing new scientific studies in British Columbia is never economic, all the registrants of atrazine elected to drop BC from their labels. In other words, they decided it wasn't worth it. Not only is straight atrazine gone, but every formulation that contains atrazine as well – that includes Primextra.

Although dairy farmers can stick with glyphosate-tolerant varieties and thereby manage without atrazine, growers of sweet corn have no such option, so they are in a really tight spot. Broadleaf weeds can be controlled easily enough, but controlling grassy weeds without atrazine is very difficult. This was all explained to the PMRA, but because it is still remotely possible to control grassy weeds in sweet corn, and because there are not many acres grown in the province, the PMRA stuck to their decision. No atrazine.

What can be done without atrazine?

First, ALWAYS apply glyphosate to your field BEFORE pre-plant cultivating. This way you give

all perennial weeds, including quack grass, a severe knock. This reduces the population of root fragments of perennial weeds, such as quack grass, that can grow new shoots during growth of your corn crop.

Second, make sure to plan for application of a pre-emergence or pre-plant incorporation treatment of one of the products still available that have an effect on grasses. Plan ahead. Don't wait until the day you plant the seed. If you plant without pre-plant glyphosate and/or a pre-emergence or pre-plant incorporation treatment, it will likely be game over. In this scenario, you either hoe the field, or disc it in.



It is important to note that all these herbicide choices were designed to be applied as atrazine tank mixes. Thus, you may expect a second rate job. Also, even with atrazine, none of these do any better than suppress quack grass, so the pre-cultivation glyphosate treatment must be done.

Please turn over...

Rooted in your community.



Don't forget, we're only talking about grass weeds; there are still good options for broadleaf weeds in sweet corn.

Eradicane 8-E:

- Pre-plant incorporation treatment
- Will have effect on broadleaf, annual grasses and quack grass
- Works best if it has not been used for several years, but when used more than two years in a row, weeds become resistant quickly
- Works best in warm, dry, coarse-textured soils
- Use the highest rate if quack grass is present
- Chop and turn the soil thoroughly prior to treatment. You want less than four nodes per root fragment of quack grass

Dual II Magnum:

- Pre-emergence treatment
- Labeled for control of barnyard grass and nightshade, and suppression of redroot pigweed but will not affect quack grass
- Must be rain or irrigation within ten days to be effective
- Works best on soils greater than 1% organic matter, and less than 10%
- Must be applied before spike stage

Linuron 400L or Lorox L:

- Pre-emergence treatment
- Works best on soils less than 7% organic matter

- Labeled for control of many broadleaf weeds and most annual grasses, but will not control quack grass
- Must have 3-5 cm rain or irrigation after treatment to carry the chemical into the root zone of germinating weeds
- Must be applied as a tank mix with Dual

Accent 75DF:

- Post emergence treatment
- For control of quack grass and annual grasses
- Apply with 0.2% Agral 90 or other non-ionic surfactant
- Must be applied at specific crop and weed timing to be effective
- Cannot harvest for at least 40 days
- Labeled for safe use on a few specific varieties of sweet corn: Krispy King, Jubilee, Jubilee Super Sweet, Sensor plus others (see label)
- May be restrictions on which crops may be planted the year following application of Accent. Check label for specific restrictions

Princep Nine-T or Simazine 480:

- Pre-plant incorporation or pre-emergence treatment
- For control of some annual grasses and broadleaf weeds
- Use higher label rates in fine textured soils
- Pre-emergence treatments must be no later than 4 days following seeding
- Must be followed by rain or irrigation to be most effective

Crop Nutrition

Liquid Fertilizers in Vegetables

Is there any benefit to using foliar fertilizers in vegetables? As always, the answer depends on more than one factor; in this case it depends on the type of crop and the immediate reason. Normally, the reason for foliar fertilizer in any crop must be very specific (such as deficiencies in micronutrients), since not much nutrition can be provided through the foliage. This is especially true for major nutrients such as N, P and K. In vegetables there are a few particular reasons for foliar, and of course this depends also on the crop.

Boron and Cole Crops

Broccoli, Cauliflower, Cabbage and Brussels Sprouts are heavy feeders of boron. Deficiencies can appear during growth and development, especially on coarse textured soils. Borosol 10 can be used at 1 to 1.5 L/acre when deficiency appears.

“Pop up” Treatments

When planting into cold, wet soils it is beneficial to use a “pop up” application of high phosphorus liquid fertilizer as an in-furrow treatment. Use TerraLink's Stage I Liquid Starter or another high phosphorus product when setting transplants.

Transplant Treatments

Before setting your transplants, drench them with TigerClaw Symbex at 2% solution. Symbex is a “microbial activator”, giving the naturally-occurring root zone microbes a boost, which in turn supports new transplants until they can recover from planting shock. Customers have told us this tends to reduce transplant mortality rates.

Another good practice is to spray Antistress on the transplants a couple of days before going to the field. It creates a protective coating on the foliage, thereby helping to keep the plants from drying out after planting out.

Once planted, transplants are shocked, and at this time are susceptible to root and crown diseases. To strengthen them, some growers have found an application of TigerClaw Zinc 6.5% helps, although why this happens is not clear.



What's New in Pest Control

New Registrations in Vegetables

Chateau WDG

This herbicide is now registered for pre-emergence control of selected grassy and broadleaf weeds in potatoes, dry bulb onions and asparagus. The active ingredient, flumioxazin, represents new chemistry and is a water dispersible granule formulation. It is most effective on soils of less than 5% organic matter and coarse-textured soils. Moisture is required to activate Chateau WDG for residual weed control, and the soil should not be disturbed following application. Avoid making applications on poorly drained soil as crop injury may occur. Also, Chateau WDG must not come in contact with foliage and fruit, and is harmful to both aquatic and non-aquatic organisms, so buffer zones must be observed.

Revus

A new fungicide that has been registered for certain foliar diseases in brassicas, bulb vegetables, cucurbits, potatoes, peppers, tomatoes and leafy vegetables, Revus contains the active ingredient mandipropamid, a preventative Group 40 chemical. Although it does not have true systemic activity, it does have translaminar movement and has excellent rainfastness. Revus inhibits mycelial growth and is active against spore germination. Even though it is really only effective on its own against downy mildew and phytophthora (foliar oomycete pathogens), when combined with other fungicides the disease control spectrum and resistance management may be increased. For late blight in potatoes, Revus should be applied prior to disease development and continued through the season on 7-10 day intervals. It may be tank-mixed with Bravo for more effect on late blight.

Maxim Liquid PSP

Finally, a potato seed piece formulation that is easy to use. Fludioxonil is now in a liquid formulation, Maxim Liquid PSP. It is registered for the control of black, silver scurf, and fusarium dry rot. The application rate is 5.2 mL per 100 kg of seed, however it needs to be applied as a slurry mixed in water. The label says to thoroughly mix the recommended amount of MAXIM Liquid PSP into the required amount of water for the slurry treater and dilution rate to be used. Follow the manufacturer's application instructions for the seed

treatment equipment being used. Maintain constant agitation of the slurry during the treatment. Actara 240SC can be added to the mixture if desired for control of aphids, and Colorado Potato Beetle where that insect is a problem.

Movento 240SC

Movento 240SC arrived on the scene part way through last season. A broad spectrum insecticide for sucking insects such as aphids, Movento 240SC is unique in what Bayer calls "two way pest control". Not only does this product move downwards in a plant, through the phloem, it simultaneously moves upwards too, through the xylem. This includes going from the top of leaves right through them to their bottoms as well. Although you should still try and attain thorough coverage on all foliage including the old leaves, Movento 240SC will move to all the growing points and right to the ends of the roots.

Movento 240SC is a Group 23 product like Envidor and Forbid. It is a lipid biosynthesis inhibitor and acts as a growth regulator. The result on aphids is they stop feeding the moment they ingest the chemical, and continue to wander around on the leaves for three days before dying. Because Movento 240SC is primarily active on immature insects, application timing should coincide with an early threshold level indicated by crop scouting.

Coragen

Like Movento 240SC, Coragen also became available part way through last season. The active ingredient, chlorantraniliprole (also known as Rynaxypyr™) represents a new class of chemistry. It is in Group 28, Anthranilic diamide. Coragen is registered for control of lepidopteran pests such as cabbage looper, imported cabbage worm and diamondback moth in cole crops and leafy vegetables.

Coragen has translaminar activity, moving into leaf tissue where it cannot be washed off and thereby can be ingested by insects feeding on either leaf

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surface. It is also fast, as feeding stops within minutes of ingestion by target pests. Coragen is also very suited to IPM programs, as it is effective at low rates and has low impact on beneficial insects. Also, it degrades to non-toxic products, has low water solubility and is not volatile, which means it has low environmental impact.

Ridomil Gold 480SL

Syngenta has changed the formulation of Ridomil Gold from an oil-based product to a water soluble one. This makes it easier to use, and it will penetrate into the soil much better. To distinguish it from the old product, Syngenta also made it a different colour, and it has less odour as well. Despite these differences, the rates of application are exactly the same.





SPRAYER / TRAILER COMBO FOR SALE

This is the last of the sprayers still for sale of the TerraLink fleet. It is a 785 AIR TRAK with combination air blast and high pressure boom. Sale includes low boy trailer and 2000 gallon nurse tank.

Features are as follows:

- High clearance sprayer sitting on 12.4 x 42 rubber handles any crop, including sweet corn.
- Air ride suspension lessens jarring, and extends the life of the sprayer (and your back)

- Foam marker soaper
- Clear water rinse tank for in field use
- Brand new 600 gallon poly tank
- Adjustable track width of 88 to 120 inches
- 177 hp turbo Cummins diesel
- Two speed hydraulic motors
- Hypro D250 diaphragm pump puts out 66 gpm at 290 psi
- Product output controlled from radar via Mid-Tech ARC 6000 controller

Assessed at \$ 80,000.

Asking **\$ 65,000 for the combination.**

At printing time, we also have a 75 foot Willmar 745 pending sale. Asking \$ 30,000.

For more information, contact Mike Boot at **604-855-6453** or **mike@tlhort.com**

