



Bayer CropScience



The miracles of science™

Canada



Growing Forward  
A federal-provincial-territorial initiative

## MUCK CROPS RESEARCH STATION IPM 2013

### This is the Muck Crops Research Station Report and IPM Information for May 23, 2013

We received a total of 59.3 mm rain between May 17 and May 22. On May 21, a total of 53 mm rain was recorded between 3 and 8 PM at our Research Station. As a result, most fields around the marsh are wet to work. We observed growers pump excess water from flooded fields, which is a good drainage practice. Vegetable crops such as carrot seedlings and onions are less tolerant to having their roots submerged for extended periods. If fields remain flooded for long periods, roots can be suffocated; plant growth slowdown or plants may die. Wet soils accompanied with warmer weather also create ideal conditions for soil borne pathogens and bacterial infections.

For damping off and cavity spot of carrots, Ridomil 1G and Reason 500SC are registered. Apply the granular formulation in the seed furrow at a rate of 25 Kg/ha or 215 g/100m of row. Reason application can be made within 7 days after planting. Ranman 400SC is registered for the suppression of cavity spot. A maximum of one application per season of Ranman is allowed, as post-plant, pre-emergent application within 3 days after planting. Please refer label for information on applications.

Carrot weevils are moving into fields and have reached degree day (DD) threshold to laying eggs. The cumulative carrot weevil count at our Research Station currently is 5 weevils/trap. Insecticide spray threshold for weevils is a cumulative count of 1.5 weevil/trap. Apply control treatments only when the carrots reach 2<sup>nd</sup> true leaf stage and only if the population justifies it. Imidan and matador/silencer are registered for carrot weevil control.

Due to the rain we received in the last few days, most crops are very tender and growers should be cautious when applying herbicides. Prowl can be applied when onions are at the loop stage and again at the 2<sup>nd</sup> leaf stage. Prowl controls weeds as they emerge but do not control any existing weeds. Prowl can also be applied to onion transplants once they are established, usually a good 10 days after transplant once the roots have begun to spread and establish. Goal can also be applied once the transplants are established. The onions should be exposed to one or better yet two sunny days before application.

Onion maggot fly activity has increased around the marsh. Onion maggot fly count at our station increases to 7.8 flies/trap/day. To reduce onion maggot problems, all volunteer onions and any remaining cull piles should be removed.

A complete list of herbicides for pre and post-emergence weed control is listed in OMAF's pub. 75 (Guide to Weed Control). In carrots, do not use Gesagard near the time of crop emergence or once the crop has emerged. Note that emerging carrots are very sensitive to Lorox and severe injury may occur if there is heavy rain, or if the area is irrigated.

Carrot rust fly DD have reached for the first generation emergence. No rust fly has been found on the sticky traps at our Research Station.

Soil temperatures at the Research Station for May 22 at the 5 and 10 cm depth were 19.1°C and 18°C respectively.

ANY QUESTIONS OR COMMENTS? Call Michael Tesfaendrias or Mary Ruth McDonald at 905-775-3783



Dow AgroSciences

