Ontario Crops Research Centre – Bradford (Muck Station) IPM Report 2023

This is the Muck Crops IPM Update for June 22, 2023

Highlights

- Most carrot fields are around the 2nd true leaf stage, early carrots are around the 4th leaf and late carrots are emerging or at the bunny ear stage.
- Carrot fields that are over the 1.5 weevils/trap threshold should consider spraying at the 2nd true leaf stage to control carrot weevil.
- Most seeded onions are now at the 3rd true leaf stage and transplants are around the 5-8 true leaf stage.
- Thrips have been found, mainly in transplants.
- The Muck Station will be closed on Friday, June 30th next week for Canada Day. We are planning to scout Thursday fields on Wednesday, and Friday fields on Thursday next week.
- The AgRobotics Working Group will be hosting a Robotics Demo Day on July 12, starting at the Muck Station. More information, and to register for the event (free), is available here.

Disease Forecasting Highlight:

Botrytis leaf blight (BOTcast)	Onion downy mildew (DOWNcast)	Stemphylium leaf blight (BSPcast)	White Rot on onions	Sclerotinia (White Mold) on Carrot	General conditions for disease (TOMcast)	Lettuce downy mildew (BREMcast)
LOW RISK	LOW RISK	LOW RISK	LOW RISK	LOW RISK	MODERATE RISK	HIGH RISK

Onion Update

Many seeded onions are now at the 3rd true leaf stage. Transplants are ranging from the 5-8 leaf stage. Very minor onion maggot damage has been seen in transplant onions with damage in seeded onions being even lower. Seeds treated with Sepresto should protect against most onion maggot damage. Onion maggot damage assessment plots will be established in onion fields next week to quantify 1st generation onion maggot damage.

Thrips are being found in some transplant onions, however populations are generally low in most fields. It is important to only start spraying once thrips are present and populations are starting to build in your field. Thrips populations are field specific and can vary from field to field. As your thrips population

builds, Movento 240 SC is the first insecticide that should be sprayed. Movento should be sprayed back-to-back no more than 2 weeks apart for resistance management.

Early season weed control is important. Pre weed emergence herbicides include Chateau, Prowl H2O and Frontier Max. Post weed emergence herbicides include Goal 2XL, Pardner and bromoxynil products. Allowing the onions waxy leaf layer to develop can help protect the plant from herbicide injury. Registered herbicides can be found in OMAFRA's Weed Control Guide for Hort Crops (dry bulb onions starting on page 128) and the Ontario Crop Protection Hub.

Carrot Update

Most carrots are now at the 2nd true leaf stage. For fields that are over the 1.5 weevils/trap threshold, a Rimon 10 EC or Exirel insecticide spray is recommended at the 2nd leaf stage. Some early carrot fields are at the 4th true leaf stage, and a second Rimon 10 EC or Exirel spray is recommended if your field is over the 5 weevils/trap threshold. Carrot weevils have nearly completed their egg laying period. Later seeded carrots should avoid the majority of this egg laying period and likely do not need to be sprayed for weevil control.

For more information on controlling carrot weevils, check out our "How to Control Carrot Weevil" video on our Muck Crops IPM YouTube channel by clicking on the thumbnail to the left. We hope this video is informative and please let us know if there is anything we can improve on for future videos!

Carrot rust fly counts have decreased on sticky traps, however this 1st generation of rust flies cannot cause damage to carrots when they are this small anyways.

For early season weed control, registered herbicides can be found in OMAFRA's Weed Control Guide for Hort Crops (carrots starting on page 94) and the Ontario Crop Protection Hub.

Celery Update

Celery transplanting continues. Herbicide damage is common in celery and we are monitoring fields closely for the presence of diseases. Insect activity has been very low.

Daily Weather

Date (June)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
19	26.8	9.7	0.0
20	29.2	11.4	0.0
21	29.3	11.0	0.0

Soil Temperature (°C): 5cm: 21.9

Any questions or comments? Please call Tyler Blauel or Mary Ruth McDonald at 905-775-3783