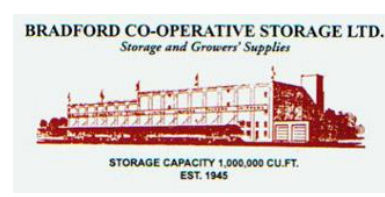




IMPROVE LIFE.



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

This is the Muck Crops IPM Update for July 6, 2023

Highlights

- **Stemphylium leaf blight is present in many fields, mainly transplants.**
- Thrips populations have been increasing and a Movento application is likely needed in many fields if it has not been applied already.
- Most seeded onions are around the 5-6 true leaf stage.
- Most carrot fields are around the 4th true leaf stage.
- A second insecticide application is recommended to control carrot weevils if your field is over the 5 weevils/trap threshold.
- Weevil activity has decreased dramatically, and the egg laying period is complete. Weevil traps will be removed from fields.
- 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	HIGH RISK	LOW-MODERATE RISK	LOW RISK	HIGH RISK	LOW-MODERATE RISK

Onion Update

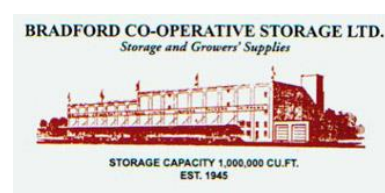
Most seeded onions are now at the 5-6 true leaf stage. Stemphylium leaf blight has been confirmed in many onion fields in the marsh, but mainly in transplants. The current risk for disease is high and we recommend an early spray to protect the onions from infection if you have not done so already. The seed treatment EverGol Prime (group 7) helps to protect onions early in the year from infection, but sprays are still necessary to manage the disease.

First spray: If your seed is treated with EverGol Prime or Pen 240 your first spray should be a product containing mancozeb (group M3) such as Manzate Pro-Stick, Dithane Rainshield or Penncozeb 75 DF Raincoat.





IMPROVE LIFE.



Manzate Pro-Stick is registered on onions for Purple Blotch and Botrytis leaf blight while Dithane Rainshield and Penncozeb 75 DF Raincoat are registered for Botrytis only, and if applied to control these diseases it could also help to suppress Stemphylium.

Second spray: Miravis Duo (group 7). Sercadis and Aprovia/Aprovia Top are also group 7s and are registered to suppress Stemphylium as well. Rotating these products is important even though they are all group 7s. Miravis Duo could be your first spray if your seeds were not treated with EverGol Prime or Pen 240.

We do not recommend spraying Quadris Top (group 11/3) or Luna Tranquility (group 7/9) as Stemphylium has developed resistance to these fungicides. There is very high resistance in Stemphylium to one of the fungicides in Quadris Top and high resistance to one of the fungicides in Luna Tranquility.

Thrips populations have been increasing with the hot weather. Populations are field specific and can vary from field to field. 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.

For weed control, registered herbicides include Chateau, 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 4th true leaf stage. If your field is over the 5 weevils/trap threshold a second spray of Rimon 10 EC or Exirel is recommended at the 4th leaf stage. Later seeded carrots should avoid the majority of this egg laying period and likely do not need to be sprayed for weevil control. If needed, this second insecticide application can protect carrots from weevil damage for the rest of the season. Carrot weevil activity has decreased, and they have completed their egg laying period.



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!

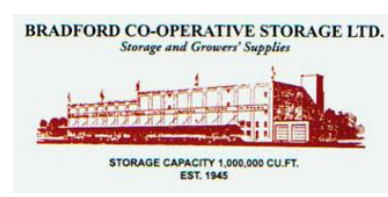
Aster leafhopper numbers have been increasing. Sevin XLR, Admire 240 F, Actara 25WG, Closer and Sivanto Prime are registered if your field is over the 20 leafhoppers/trap or 1 leafhopper/sweep threshold.

For 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](#).





IMPROVE LIFE.



Celery Update

Celery transplanting is finishing up throughout the marsh. Some pink rot and bacterial rot have been identified. Bacterial rot thrives in these hot conditions with irrigation/precipitation. Herbicide damage is common. We will be closely monitoring for any celery leaf curl or other diseases.

Daily Weather

Date (July)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
3	28.1	16.9	0.0
4	31.7	16.2	0.0
5	33.1	16.9	0.0

Soil Temperature (°C): 5cm: 24.5

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



We create chemistry