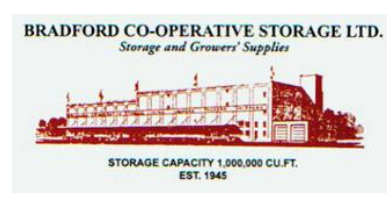




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# Ontario Crops Research Centre – Bradford (Muck Station) IPM Report 2023

This is the Muck Crops IPM Update for July 10, 2023

## Highlights

- **Minor symptoms of Stemphylium leaf blight are present mainly in transplant fields.**
- Thrips populations have been increasing and a Movento application is likely needed in many transplant onion fields.
- Some pelting rain damage has been seen in onions from the rain last week.
- Most seeded onions are around the 6<sup>th</sup> true leaf stage.
- Many carrot fields are around the 5<sup>th</sup> true leaf stage.
- The carrot weevil egg laying period is complete and traps will be removed from fields.
- The AgRobotics Working Group will be hosting a Robotics Demo Day this Wednesday, July 12 starting at the Muck Station. For more information and to register for the event, which is free, visit our website [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	MODERATE RISK	MODERATE RISK	LOW-MODERATE RISK	LOW RISK	MODERATE-HIGH RISK	MODERATE-HIGH RISK

## Onion Update

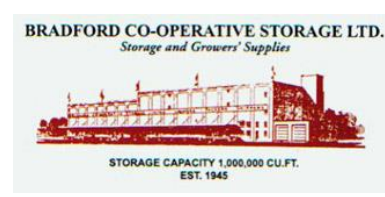
Most seeded onions are now at the 6<sup>th</sup> true leaf stage. Minor symptoms of Stemphylium leaf blight are present, with most symptoms being found in transplant fields. The current risk for disease is moderate.

If you have not already applied a second spray, Miravis Duo (group 7) could be the next product you spray. Sercadis and Aprovia/Aprovia Top are also group 7s and are registered to suppress Stemphylium as well. These products are effective for around 10 days and for future sprays, rotating these products is important even though they are all group 7s.





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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. Populations are field specific and can vary from field to field. Movento 240 SC is the first insecticide that should be sprayed. A Movento application is likely needed in many transplant onion fields. 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 5<sup>th</sup> true leaf stage. The carrot weevil egg laying period is complete and later seeded carrots likely do not need to be sprayed for weevil control.

Aster leafhoppers have been active. 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](#).

### Celery Update

Celery transplanting is finishing up throughout the marsh. Celery will be inspected closely for the presence of diseases and any possible insect damage. Blights have been minor so far, with only some pink rot and bacterial rot found recently.

### Daily Weather

Date (July)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
6	31.4	16.7	15.8
7	25.7	16.8	0.0
8	25.0	10.9	1.6
9	25.4	15.0	0.0

Soil Temperature (°C): 5cm: 18.55

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

