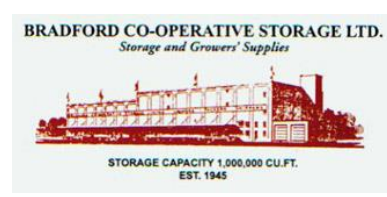




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Ontario Crops Research Centre – Bradford (Muck Station) IPM Report 2023

This is the Muck Crops IPM Update for July 13, 2023

Highlights

- **Stemphylium leaf blight has been confirmed in many onion fields.**
- **Allegro 500F is now registered for suppression of Stemphylium on onions.**
- Many seeded onions are around the 6th true leaf stage.
- Many carrot fields are around the 5th true leaf stage.
- Thank you to everyone who attended the Robotics Demo Day yesterday. It was a very informative event and it was great to see the robots in action!

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	MODERATE-HIGH RISK	LOW-MODERATE RISK	LOW RISK	MODERATE-HIGH RISK	MODERATE-HIGH RISK

Onion Update

Many seeded onions are now around the 6th true leaf stage. Minor symptoms of Stemphylium leaf blight are present in most onion fields now. The current risk for disease is moderate-high.

Allegro 500F is now registered for Stemphylium suppression on onions. The rate is the same as other diseases, 1.16 L/ha (0.47 L/acre).

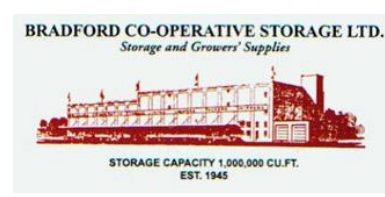
We recommend alternating the group 7 fungicide sprays (Miravis Duo, Sercadis, Aprovia/Aprovia Top and Merivon) with Allegro (group 29) for disease suppression and resistance management. The group 7 systemic products are effective for around 10-14 days and the contact Allegro fungicide is effective for around 7-10 days.

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.





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Thrips numbers have temporarily decreased in some field with the rain this week. However, some fields have maintained moderate levels or have growing populations. As thrips populations grow, 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.

Some white rot continues to be found in fields with the disease. Overall severity is low though.

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

Many carrot fields are now around the 5th true leaf stage. Carrot weevils have finished their egg laying and activity period. Later seeded carrots should avoid the majority of the carrot weevil egg laying period and subsequent damage by larvae and do not need to be sprayed.

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)
10	28.8	12.0	0.0
11	29.7	17.4	10.2
12	24.3	11.6	0.2

Soil Temperature (°C): 5cm: 19.9

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

