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Ontario Crops Research Centre – Bradford (Muck Station) IPM Report 2024

This is the Muck Crops IPM Update for June 6, 2024

Highlights

- Stemphylium leaf blight has identified on transplant onions in the marsh.
- Most seeded onions are at the 1st or 2nd true leaf stage.
- White rot has the potential to develop in transplant onions.
- Most carrot fields are at the bunny ear stage.
- Carrot weevils are active, and some fields are at or approaching the 2nd true leaf stage.
- 1st generation carrot rust flies are active, but this generation cannot cause serious damage.

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 RISK	HIGH RISK	LOW RISK	HIGH RISK	MODERATE-HIGH RISK

Onion Update

Most seeded onions are around the 1st or 2nd true leaf stage. Stemphylium leaf blight has been confirmed on transplant onions. We recommend an early spray for transplant onions to protect the onions from infection. Seeded onions are not as susceptible to infection as they are still young.

First spray: If your seed was treated with EverGol Prime or Pen 240 your first spray should be Allegro 500F. Allegro is effective for around 7-10 days. If your transplant seeds were not treated with penflufen, Miravis Duo (Group 7/3) would be the best choice to protect your onions.

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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Onion maggot flies are active, but seeds treated with Sepresto should be protected against onion maggot damage. Transplants are being monitored closely for onion maggot feeding.

Conditions are suitable for white rot. Transplant onions will be monitored closely for white rot infection.

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 the [Ontario Crop Protection Hub](#).

Carrot Update

Many carrot fields have now been seeded and are at the bunny ear stage. A few fields are left to be seeded. Carrot weevils are active and are in their egg laying period. Carrot weevil pressure is usually higher in early seeded carrots than later seeded carrots as later seeded carrots often miss the majority of the egg laying period. If you have earlier seeded carrots, we do not recommend spraying for weevils until the 2nd true leaf stage if you are over the cumulative 1.5 weevils/trap threshold. If a field is over the 5 weevils/trap threshold we also recommend spraying at the 4th true leaf stage. Rimon 10 EC or Exirel are good insecticides to manage weevil populations.

Although 1st generation carrot rust flies are active, this generation cannot cause serious damage as the carrots are too small at this time.

For early season weed control, registered herbicides can be found in the [Ontario Crop Protection Hub](#).

Daily Weather

Date (June)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
3	25.3	16.0	0.0
4	28.9	12.4	0.0
5	26.3	15.1	0.4

Soil Temperature (°C): 5cm: 17.8

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

