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

This is the Muck Crops IPM Update for June 13, 2024

Highlights

- Stemphylium leaf blight has identified on transplant onions in the marsh.
- Most seeded onions are at the 2nd to 3rd true leaf stage.
- Many carrot fields are at the 1st or 2nd true leaf stage, some are just emerging.
- Carrot weevils are in their egg laying period and some fields are over the 1.5 and 5 cumulative weevils/trap threshold.

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	LOW RISK	HIGH RISK

Onion Update

Most seeded onions are around the 2nd to 3rd true leaf stage. Stemphylium leaf blight continues to be found in transplant onion fields and the airborne conidia are being found in our spore traps. Stemphylium leaf blight may start to develop in seeded onions soon.

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.

Second spray: If it has been 7-10 days since you applied Allegro, the next fungicide you apply could be Miravis Duo (Group 7/3). Aprovia/Aprovia Top, Sercadis and Merivon are also group 7s that are registered to suppress Stemphylium, but resistance has been developing to the active ingredient in Sercadis and Merivon. Rotating these products is important even though they are all group 7s. Allegro is low risk for developing resistance and can be used in rotation with these products.





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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.

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, some feeding has been observed. Conditions are also suitable for white rot development. Transplant onions will be monitored closely for any white rot infection. Onions are being monitored closely for thrips, which may start to become present and increase in numbers with the hot and dry weather in the forecast.

For weed control, 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

Most carrot fields are now seeded and many are at the 1st to 2nd true leaf stage. Earlier seeded carrots are around the 4th true leaf stage. 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, which is coming to an end soon. If you have earlier seeded carrots, we recommend spraying for weevils at the 2nd true leaf stage if your field is over the cumulative 1.5 weevils/trap threshold. If your 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.

We will be monitoring small carrots for heat canker over the next week.

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)
10	13.6	9.9	0.0
11	18.8	9.8	0.0
12	24.7	8.1	0.0

Soil Temperature (°C): 5cm: 14.8

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

