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

This is the Muck Crops IPM Update for July 2, 2024

Highlights

- Conditions have been favourable for Stemphylium leaf blight. Stemphylium has been identified on seeded and transplant onions in the marsh.
- Most seeded onions are at the 5th-6th true leaf stage and have grown quickly after the hot and wet weather.
- Thrips have been found in many onion fields and populations are building.
- Many carrot fields are at the 3rd- 4th true leaf stage.
- Carrot weevils have almost completed their egg laying period. Some fields are over the 1.5 and 5 cumulative weevils/trap threshold.
- The AgRobotics Working Group will be holding in-field robot demonstrations on Thursday July 4th, starting at the Muck Station at 9 am. If you are interested, please register for this free tour [here](#).
- Due to the Canada Day holiday yesterday, Monday fields will be scouted today and Tuesday fields will be scouted tomorrow.

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

Onion Update

Seeded onions are around the 5th – 6th true leaf stage now. Stemphylium leaf blight has been found in many seeded onions, as well as transplants, and conditions are favourable for disease development. If you have not already applied a fungicide for Stemphylium, your first spray should be Allegro 500F.

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.

Thrips populations are building in many fields. Thrips populations tend to be higher in transplant fields compared to seeded fields. For thrips management, it is important to first apply Movento 240 SC once thrips are present in your field and their population is building. Movento should be sprayed back-to-back no more than 2 weeks apart for resistance management.



Madison Sirois - Scout

Some onion maggot damage has been seen in seeded and transplant onions. Damage from 1st generation onion maggots is being assessed.

For weed control, post weed emergence herbicides include Goal 2XL, Pardner and bromoxynil products. Registered herbicides can be found in the [Ontario Crop Protection Hub](#).

Carrot Update

Most carrot fields are at the 3rd- 4th true leaf stage. Earlier seeded carrots are around the 6th true leaf stage.

The egg laying period for carrot weevils is almost complete. We have seen some carrot weevil damage, but it has been very minimal. Carrot weevil pressure is usually higher in early seeded carrots than later seeded carrots as later seeded carrots often miss the majority of this egg laying period. 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.



Eriel Strauch - Scout

Aster leafhopper numbers have been increasing in some fields. 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 the [Ontario Crop Protection Hub](#).





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Celery Update

Some leaf blights and soil borne diseases are just starting to show up in celery. Insect damage has been minimal so far. Herbicide damage has been quite common.

Daily Weather

| Date (June/July) | Max temperature (°C) | Min temperature (°C) | Rain (mm) |
|------------------|----------------------|----------------------|-----------|
| 27 | 20.1 | 9.0 | 0.0 |
| 28 | 22.8 | 6.6 | 0.0 |
| 29 | 27.3 | 15.9 | 4.6 |
| 30 | 21.3 | 12.5 | 0.0 |
| 1 | 24.5 | 9.0 | 0.0 |

Soil Temperature (°C): 5cm: 19.3

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

