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

This is the Muck Crops IPM Update for August 15, 2024

Highlights

- **Onion downy mildew risk continues to be high as conditions have been favourable for development.**
- Stemphylium is present in every onion field in the marsh, but the disease has been managed well in most fields as many onions start to lodge.
- Many onion fields continue to lodge.
- Carrot rust flies are active and some fields are over the spray threshold.
- Thrips are more active in standing onion fields as populations move in from lodging fields.
- Aster leafhopper populations are high in some carrot fields and aster yellows has been showing up.

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	HIGH RISK	HIGH RISK	LOW RISK	LOW RISK	HIGH RISK	HIGH RISK





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Onion Update

Downy Mildew

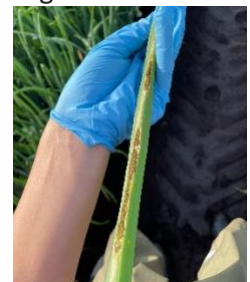
Conditions continue to be favourable for onion downy mildew development. If your onions will be standing for a while it may be important to protect them from infection. Our research at the Muck Station has shown that Orondis Ultra (group 40/49), Orondis Gold (group 4/49) and Zampro (group 45/40) are the most effective for controlling this disease. Ridomil Gold MZ (group 4/M3) is no longer being produced, but if you have some it is an effective product as well. These systemic products should protect onions for 10 days. Orondis Ultra should be applied with a non-ionic surfactant. Rotating fungicides is very important.



Dom Blass - Scout

Stemphylium Leaf Blight

Conditions remain favourable for disease development. Again, if your onions will be standing for a while it may be important to protect them from infection. We recommend alternating the group 7 fungicides (Miravis Duo, Sercadis, Aprovia/Aprovia Top and Merivon) with Allegro (group 29) for Stemphylium leaf blight suppression and resistance management. Resistance has been developing to the active ingredient in Sercadis and Merivon. The group 7 systemic products are effective for around 10-14 days and the contact fungicide Allegro is effective for around 7-10 days.



Madison Sirois - Scout

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.

Many onion fields have started lodging. As onions lodge the scouts will be completing a final harvest assessment for disease and insect damage.

Royal MH can be applied to lodging onions to control sprouting in storage. Royal MH should be applied when bulbs are mature, have 5-8 green leaves and ~50% of tops have fallen. Green tops are needed for the product to be absorbed into the bulb. Royal MH should be applied no later than 10 days before harvest.

For thrips management, the products we would recommend applying after your Movento applications are Agri-Mek SC (group 6), Delegate WG (group 5), Minecto Pro (group 6/28) or Exirel (group 28). These insecticides should also be applied back-to-back, no more than 2 weeks apart. Some thrips damage has been reported.





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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

Sclerotinia white mold has been identified in some early seeded carrots with full canopies. Allegro 500F, Scholar 230SC, Luna Sensation and Switch 62.5 WG are registered for control and Miravis Duo and Fontelis are registered for suppression if you have the disease in your field. It is important to try and get these products down into the crown and lower canopy as best you can.

Second generation carrot rust flies are still active. This generation can cause damage that can go undetected until harvest and it is important to spray if your field is over threshold. If your field is over the 0.1 rust flies/trap/day threshold Mako, UP-Cyde 2.5 EC, Labamba, Matador 120EC and Silencer 120 EC are registered for control.



Eriel Strauch - Scout

Aster leafhopper numbers continue to be variable but are high 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.



Eriel Strauch - Scout

Carrot blights, Cercospora and Alternaria, are starting to show up in fields. When you are over the 25% of plants infected with leaf blight threshold, Cabrio, Flint, Quadris Top, Merivon and Bravo/Echo are registered for both Cercospora and Alternaria leaf blights. Copper 52W is only registered for Cercospora. Fontelis, Sercadis, Cantus, Pristine, Switch, Miravis Duo, Luna Sensation and Allegro are only registered to control Alternaria.

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





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Celery Update

Mature celery is being harvested around the marsh. Alternaria leaf spot and early blight (*Cercospora*) are the most common in fields. Some late blight (*Septoria*) is also present. There are many fungicides registered to manage blights in celery, which can be found on the [Ontario Crop Protection Hub](#). Celery leaf curl and insect damage has been minimal overall.

Daily Weather

Date (August)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
12	23.4	14.2	0.4
13	26.4	11.4	0.0
14	29.0	10.6	0.0

Soil Temperature (°C): 5cm: 20.0

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

