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

This is the Muck Crops IPM Update for August 22, 2024

Highlights

- Onion fields continue to lodge. Many fields are ready for Royal MH application.
- Stemphylium is present in every onion field in the marsh and many onion fields that are still standing are experiencing more severe symptoms. The cool weather likely slowed some disease development.
- Carrot rust flies are active and some fields are over the spray threshold.
- Sclerotinia white mold has been found in a number of carrot fields.
- The [2024 Muck Crops Research Station Grower Field Day](#) will be held in two weeks on September 5th from 8:30am – 4 pm. Coffee and donuts will be served compliments of Stokes Seeds (Bridget Visser). Lunch will also be provided. Please feel free to drop by.
- Next week will be the last week of onion scouting for the season. Carrot fields will be scouted once a week throughout September.

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

Onion Update

Onion fields continue to lodge and many are ready for Royal MH application. 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.

Some standing onion fields are starting to show more severe Stemphylium leaf blight symptoms. As onions lodge the scouts will be completing a final harvest assessment for disease and insect damage.

Most onion fields no longer require fungicide sprays to protect from downy mildew and Stemphylium leaf blight. However, if your onions will be standing for a while, our research at the Muck Station has





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shown that Orondis Ultra (group 40/49), Orondis Gold (group 4/49) and Zampro (group 45/40) are the most effective for controlling downy mildew. 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.

For Stemphylium leaf blight 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.

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.

Spraying for downy mildew and Stemphylium is not necessary for lodging onion fields.

If you're onions will be standing for a while and you are looking for thrips management, the products we would recommend are Agri-Mek SC (group 6), Delegate WG (group 5), Minecto Pro (group 6/28) or Exirel (group 28). These insecticides should be applied back-to-back, no more than 2 weeks apart.

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 found in several carrot fields. 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.



Eriel Strauch - Scout

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





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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 present in most fields and some fields are over the spray threshold. 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](#).

Celery Update

Celery harvest continues. 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)
20	19.1	9.7	0.2
21	19.5	7.7	0.2

Soil Temperature (°C): 5cm: 16.3

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

