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

This is the Muck Crops IPM Update for August 29, 2024

Highlights

- Thank you to our scouts Eriel, Domenic and Madison for all their hard work and dedication scouting this season! As they finish up their last week they will be completing a final onion harvest assessment on all remaining onion fields.
- Carrot and celery fields will be scouted once a week throughout September.
- IPM Updates (Agriphones) will also be sent out once per week on Wednesday's throughout September.
- Carrot rust flies are active in some fields.
- Sclerotinia white mold has been found in a number of carrot fields.
- The [2024 Muck Crops Research Station Grower Field Day](#) will be held next Thursday 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.
- The Muck Station will be closed on Monday, September 2nd for Labour Day. We are planning to scout carrot fields on Tuesday and Wednesday next week.

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	HIGH RISK	LOW-MODERATE 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.





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A number of standing onion fields are showing more severe Stemphylium leaf blight symptoms. Scouts will be completing a final harvest assessment for disease (pink root, white rot, bacterial rot, fusarium basal rot) and insect (onion maggot) damage on all remaining onion fields this week.

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 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 Stemphylium is not necessary for lodging onion fields.

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. Another option is reducing the canopy with a carrot leaf trimmer. The trimming cuts excess leaves and opens up the canopy allowing for more air flow between rows.



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.



Eriol 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

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)
26	31.0	12.0	0.0
27	32.4	17.4	0.0
28	23.3	16.5	0.0

Soil Temperature (°C): 5cm: 21.1

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



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