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

This is the Muck Crops IPM Update for September 4, 2024

Highlights

- The [2024 Muck Crops Research Station Grower Field Day](#) will be held tomorrow 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 and we look forward to seeing everyone tomorrow.
- Carrot rust flies are active in some fields.
- Sclerotinia white mold has been found in a number of carrot fields; however, this dry weather should slow disease development.
- Carrot and celery fields will be scouted once a week throughout September.
- IPM Updates (Agriphones) will be sent out once per week on Wednesday's throughout September.

Disease Forecasting Highlight:

Sclerotinia (White Mold) on Carrot	General conditions for disease (TOMcast)	Lettuce downy mildew (BREMcast)
LOW RISK	HIGH RISK	HIGH RISK

Onion Update

Onion fields are at various stages of lodging throughout the marsh. Windrowing and harvesting are occurring in some fields. From our final scouting harvest assessments, onion maggot damage was found to be fairly low this year with the majority of damage occurring in transplant onions. White rot has been found in fields that were expected to have it and severity was generally low. Bacterial rot was uncommon but was present in a few fields. Pink root was very common once again, although disease severity was usually very low.

For fields with onion white rot, the best thing to do is pull the onions as early as possible. Artificial curing is useful for drying up severely infected onions and stopping some of the disease development in other infected bulbs. Grading out infected bulbs before storage is useful, if it can be done.





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Stemphylium leaf blight was also present in all scouted onion fields once again. Over the last few weeks, onion fields that had not lodged started to experience more severe Stemphylium symptoms. Seeded onion fields that started to lodge earlier generally went down well while staying fairly green. Onion downy mildew was also an ongoing battle this year. Several fields developed the disease, but severity remained low in most 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.



Madison Sirosis - 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

Aster leafhopper numbers continue to vary among 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.





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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 (Aug/Sept)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
29	24.3	13.0	0.0
30	29.1	9.9	2.0
31	28.3	15.4	1.4
1	23.9	12.8	0.0
2	19.3	7.0	0.0
3	25.1	4.7	0.0

Soil Temperature (°C): 5cm: 17.7

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

