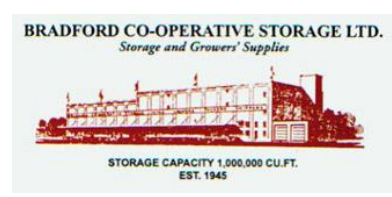




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Ontario Crops Research Centre – Bradford (Muck Station) IPM Report 2023

This is the Muck Crops IPM Update for September 6, 2023

Highlights

- The [2023 Grower Field Day](#) is tomorrow from 8:30 am – 4:00 pm at the Station. The Field Day will highlight the onion and carrot variety trials and research plots here on station. Coffee and donuts will be provided compliments of Stokes Seeds (Bridget Visser). Lunch will also be provided. Please feel free to drop by.
- Carrot rust flies are active in a number of fields and some are over threshold.
- We continue to monitor fields closely for Sclerotinia white mold. The heat will have likely slowed some disease development.
- Carrot fields will be scouted once a week for the month of September.
- IPM Updates (Agriphones) will also be sent out once per week on Wednesday's for the rest of September.

Disease Forecasting Highlight:

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

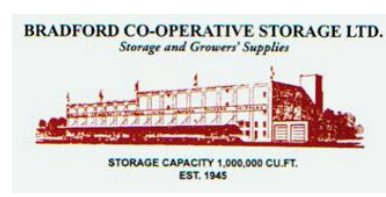
Onion Update

Onion fields are at various stages of lodging and some fields are being harvested. After our final harvest assessments onion maggot damage was found to be sporadic, with some fields having moderate damage and others having minimal to no damage. White rot was found in fields that are expected to have the disease. Bacterial rot was found to be higher than in previous years, likely a result of the hot and wet season. Pink root was very common, 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 present in all onion fields, similar to previous years; however disease pressure was higher this year. Onion downy mildew pressure was also high this year. Several fields developed the disease but severity was kept low for the most part. Proper fungicide applications limited the potential increased severity of these diseases in most fields throughout the marsh.

Carrot Update

Carrot rust flies are active in some fields and a few have populations that are over threshold. If you are looking to harvest within 3-4 weeks it may not be necessary to spray for rust flies as it takes at least one month from the time adults are present, or caught, to when their larvae are able to damage the carrot. If your field is over the 0.1 carrot rust flies/trap/day threshold and the time until harvest will be longer than 3-4 weeks Mako, UP-Cyde 2.5 EC, Labamba, Matador 120EC and Silencer 120 EC are registered for control.

Sclerotinia white mold has been found in many fields now. The heat over the last few days will have likely slowed disease development. We will continue monitoring fields closely for white mold development. Allegro 500F, Scholar 230SC, Luna Sensation and Switch 62.5 WG are registered for control and Miravis Duo and Fontelis are registered for suppression. It is important to try and get these products down into the crown and lower canopy as best you can.

Cercospora and Alternaria leaf blights are common. If your field is 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.

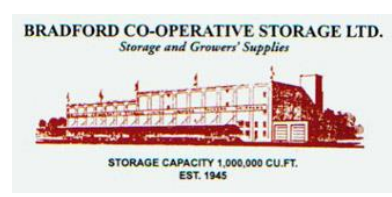
Celery Update

Celery harvest continues. Early and late blight are the most common diseases. Many fungicides are registered to manage these diseases, which can be found on the [Ontario Crop Protection Hub](#). A low number of plants showing symptoms of celery leaf curl have been found. Switch 62.5 WG and Quadris Flowable are registered for control. Some tarnished plant bug (TPB) damage has been found. If you are over the 0.1 - 0.2 TPB/plant threshold, insecticides registered for control include Closer, Labamba, Matador 120EC, Sevin XLR and Orthene 97% SG, and Actara 25WG and Beleaf 50SG are registered for a reduction in damage.





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Daily Weather

Date (Aug/Sept)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
31	24.0	6.6	0.0
1	25.1	7.7	0.0
2	25.7	11.0	0.0
3	30.8	13.6	0.0
4	33.5	17.7	0.0
5	33.0	17.5	0.0

Soil Temperature (°C): 5cm: 22.1

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

