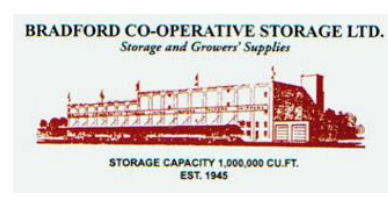




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# Ontario Crops Research Centre – Bradford (Muck Station) IPM Report 2023

This is the Muck Crops IPM Update for August 8, 2023

## Highlights

- Conditions remain favourable for onion downy mildew and Stemphylium leaf blight.
- Sclerotinia white mold has been seen in a few carrot fields.
- Carrot rust flies are active.
- Reminder that we will be scouting Monday fields today, and Tuesday fields on Wednesday this 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	HIGH RISK	HIGH RISK	LOW-MODERATE RISK	LOW-MODERATE RISK	HIGH RISK	HIGH RISK

## Onion Update

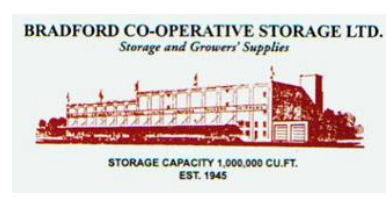
The risk of onion downy mildew infection is high. If it has been around 10 days since your last downy mildew spray another is recommended. It is important to rotate fungicides. There are many products registered for control of downy mildew and our research at the Muck Station has shown that Orondis Ultra (group 40/49), Orondis Gold (group 4/49), Zampro (group 45/40) and Ridomil Gold MZ (group 4/M3) are the most effective for controlling this disease. These systemic products should protect onions for 10 days. Ridomil Gold MZ also contains mancozeb which may help control both downy mildew and Stemphylium leaf blight. Orondis Ultra should be applied with a non-ionic surfactant.

Severity of Stemphylium leaf blight in onion fields is increasing. The current risk for the disease also continues to be high. More tip dieback is present as well, which can be an entry point for Stemphylium. We recommend alternating the group 7 fungicide sprays (Miravis Duo, Sercadis, Aprovia/Aprovia Top and Merivon) with Allegro (group 29) for Stemphylium leaf blight suppression and resistance management. The group 7 systemic products are effective for around 10-14 days and the contact Allegro fungicide is effective for around 7-10 days.





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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.

For thrips management, Agri-Mek SC (group 6), Delegate WG (group 5), Minecto Pro (group 6/28), or Exirel (group 28) are registered for thrips control. These insecticides should also be applied back-to-back, no more than 2 weeks apart.

For weed control, registered herbicides include Chateau, Goal 2XL, Pardner and bromoxynil products. Allowing the onions waxy leaf layer to develop can help protect the plant from herbicide injury. Registered herbicides can be found in [OMAFRA's Weed Control Guide for Hort Crops](#) (dry bulb onions starting on page 128) and the [Ontario Crop Protection Hub](#).

## Carrot Update

Some Sclerotinia white mold is present in a few 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 are looking to manage the disease. It is important to try and get these products down into the crown and lower canopy as best you can.

Cercospora leaf blight is common, but severity is low. When you are over the 25% of plants infected with Cercospora threshold, Cabrio, Flint, Quadris Top, Merivon, Bravo/Echo and Copper 53W are registered for control.

Carrot rust flies are active. This second generation can cause damage to the carrot root that can go undetected until harvest. 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.

For weed control in carrots, Lorox L, Ultra Blazer, Poast Ultra, Select, Venture and Aim EC are registered. Rates and use recommendations for these products can be found in OMAFRA's [Weed Control Guide for Hort Crops](#) (carrots starting on page 94) and the [Ontario Crop Protection Hub](#).

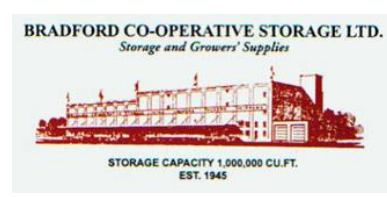
## Celery Update

Early blight is present in many celery fields and many fungicides are registered to manage this disease, which can be found on the [Ontario Crop Protection Hub](#). For celery leaf curl control, Switch 62.5 WG and Quadris Flowable are registered.





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## Daily Weather

Date (Aug)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
3	28.6	16.4	19.2
4	25.3	15.9	0.0
5	23.7	13.2	0.0
6	24.2	10.4	0.4
7	25.7	16.6	1.4

Soil Temperature (°C): 5cm: 19.9

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

