



Ontario Crops Research Centre – Bradford (Muck Station) IPM Report 2025

This is the Muck Crops IPM Update for August 21, 2025

Highlights

- Many onion fields are lodging and are ready for Royal MH application
- **Stemphylium leaf blight severity continues to slowly increase in onion fields that are standing, but the disease has been managed well in most fields**
- Thrips are more active in standing onion fields as populations move in from lodging fields
- As onion fields lodge scouts will be completing their final onion harvest assessment
- Most carrot canopies are closed
- Aster yellows has been found in many fields and Aster leafhopper populations are high in some fields
- Some carrot rust fly activity continues to be observed
- We received over 30 mm of rain on Tuesday
- The 2025 Muck Crops Research Station Grower Field Day will be held in two weeks on September 4th from 8:30am – 4 pm. Coffee and donuts will be served compliments of Stokes Seeds. 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	LOW RISK	HIGH RISK	LOW-MODERATE RISK	LOW RISK	MODERATE-HIGH RISK	HIGH RISK

Onion Update

Many seeded onion fields are lodging. 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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Most onion fields no longer require fungicide sprays to protect from 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.

If your onions will be standing for a while and you are looking for thrips management in fields that surpass the 3 thrips/leaf threshold the insecticides we would recommend applying are Agri-Mek SC (group 6), Delegate WG (group 5), Minecto Pro (group 6/28) or Exirel (group 28). These insecticides should also be applied back-to-back, no more than 2 weeks apart.

We have not identified any onion downy mildew this year with the hot and dry weather.

As onions lodge the scouts will be completing a final harvest assessment for disease and insect damage.

Registered onion herbicides can be found in the [Ontario Crop Protection Hub](#).

Carrot Update

Most carrot canopies are closed and some early carrots have been harvested.

Aster yellows has been found in many carrot fields. Aster leafhoppers continue to be active and populations are high in some fields. The percent of aster leafhoppers with aster yellows coming from the south this year has also been fairly high. Sevin XLR, Admire 240F, Actara 25WG, Closer and Sivanto Prime are registered if your field is over the 20 leafhoppers/trap or 1 leafhopper/sweep thresholds.



Aster yellows symptoms
Scout – Dylan Quanbury

Some carrot rust fly activity continues to be seen. This generation of rust fly can cause damage 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, or remaining close to it over a long period of time, Mako, UP-Cyde 2.5 EC, Labamba, Matador 120EC and Silencer 120 EC are registered for control.

For some fields with canopies that haven't closed in yet, it may be important to apply a Sclerotinia white mold fungicide soon to get the product down to the soil while you can. Allegro 500F, Scholar 230SC, Luna Sensation and Switch 62.5 WG are registered for control and Miravis Duo and Fontelis are registered for suppression. This may be even more important in high white mold risk fields. We have not identified any white mold yet.



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Some carrot leaf blights have been found, but disease incidence and severity are very low and do not require fungicide application at this time.

Registered carrot herbicides can be found in the [Ontario Crop Protection Hub](#).

Celery Update

Celery harvest continues. Disease and insect damage has been minimal. Blights have been found regularly in celery, but severity is still low. There are many fungicides registered to manage blights in celery, which can be found on the [Ontario Crop Protection Hub](#). A little bit more celery leaf curl has been observed and Switch 62.5 WG and Quadris Flowable are registered for control. Tarnished plant bugs have been active, but damage has been minimal as well.

Registered celery herbicides can be found in the [Ontario Crop Protection Hub](#).

Daily Weather

Date (August)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
14	28.6	14.1	0.0
15	30.6	14.1	0.0
16	33.6	14.1	0.0
17	23.3	11.0	5.8
18	24.0	6.5	0.0
19	17.8	11.9	31.0
20	21.4	15.5	0.6

Soil Temperature (°C): 5cm: 18.4

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



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