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

This is the Muck Crops IPM Update for August 7, 2025

Highlights

- **Stemphylium leaf blight severity has been increasing in each onion field and lesions are sporulating as well**
- Tip dieback prominent and Stemphylium is coming in at these points
- Some seeded onion fields are just starting to lodge
- Many transplant onions are being harvested
- Thrips populations have been increasing in some seeded onion fields as thrips leave nearby lodged transplant onion fields
- Carrot canopies are closing in
- Aster yellows has been found in a number of fields and Aster leafhopper populations are high in some fields
- Some carrot rust fly activity has been observed

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-HIGH RISK	LOW-MODERATE RISK	LOW RISK	MODERATE-HIGH RISK	MODERATE RISK

Onion Update

Seeded onions are around the 9th to 10th true leaf stage, bulbs are sizing up and some fields are starting to lodge. Transplant onions are being harvested.

Stemphylium leaf blight has been found in every field and conditions are favourable for disease development. Disease severity has been increasing and many lesions are now sporulating. The number of Stemphylium spores caught in our spore traps has also been increasing. Tip dieback has become more common and severe in some fields, which can be an entry point for Stemphylium. 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



Sporulating Stemphylium lesions
Scout – Dylan Quanbury



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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.

Check out our IPM video on Stemphylium leaf blight in the Holland Marsh for more info by clicking on the thumbnail to the right.



Stemphylium Leaf Blight in the Holland Marsh



How to Control Onion Thrips

Thrips populations vary from field to field. If your field surpasses the 3 thrips/leaf threshold the insecticides we would recommend applying next 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. Check out our IPM video on onion thrips for more info by clicking on the thumbnail to the left.

In terms of onion downy mildew, although there is usually a high risk this time of year conditions have not been conducive for the disease this year. It has been too hot and dry and the forecast is predicting more hot days of 30°C or higher, which halts any disease development.

Pre broadleaf weed emergence herbicides include Chateau and Prowl H2O. Post broadleaf weed emergence herbicides include Goal 2XL, Pardner and bromoxynil products. Registered herbicides can be found in the [Ontario Crop Protection Hub](#).

Carrot Update

Carrot canopies are closing in.

Aster yellows has been found in a number of 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 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



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Some carrot rust fly activity has been observed throughout the marsh, although activity has been low overall. 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 fields with canopies starting to close in, 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.

For early season weed control, registered herbicides can be found in the [Ontario Crop Protection Hub](#).

Celery Update

Celery harvest is ongoing. Disease and insect damage has been minimal. Blights have been found regularly in celery, but severity is still low. Celery leaf curl has been very infrequent. Tarnished plant bugs have been active, but damage has been minimal as well.

Daily Weather

Date (August)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
5	29.8	13.5	0.0
6	28.7	14.1	0.0

Soil Temperature (°C): 5cm: 21.0

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



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