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

This is the Muck Crops IPM Update for July 8, 2024

## Highlights

- **Onion downy mildew has been identified on transplant onions in the marsh. A protective fungicide spray is recommended as soon as possible.**
- Conditions have been favourable for Stemphylium leaf blight. Stemphylium is very common throughout the marsh.
- Thrips populations continue to build.
- Cercospora and Alternaria leaf blights have just started to show up in some carrot fields.
- Carrot weevil activity has declined and the 1<sup>st</sup> generation egg laying period has ended. Traps will be removed 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 RISK	LOW RISK	HIGH RISK	MODERATE RISK

## Onion Update

### Downy Mildew

Onion downy mildew has been identified on transplant onions in the marsh and a protective spray is recommended on all onions as soon as possible. There are many products registered for control of downy mildew, but our research at the Muck Station has shown that Orondis Ultra (group 40/49), Zampro (group 45/40) and Ridomil Gold MZ (group 4/M3) are the most effective for controlling this disease. Orondis Gold (group 4+49) has also recently been registered. These systemic products should protect onions for 10 days. Mancozeb products, such as Manzate Pro-Stick, Dithane Rainshield and Penncozeb 75 DF Raincoat (all group M3), can be effective for controlling downy mildew if applied before infection takes place. Therefore, if you sprayed a mancozeb product for Stemphylium last week then the onions should be protected for ~7 days. Ridomil Gold MZ also contains mancozeb which may



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help control both downy mildew and Stemphylium leaf blight. Orondis Ultra should be applied with a non-ionic surfactant. Rotating fungicides is very important.

### Stemphylium Leaf Blight

Stemphylium leaf blight is very common in the marsh and conditions are favourable for disease development. Some tip dieback has also been observed, 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 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.

Thrips populations continue to build in many fields. For thrips management, it is important to first apply Movento 240 SC once thrips are present in your field and their population is building. Movento should be sprayed back-to-back no more than 2 weeks apart for resistance management.



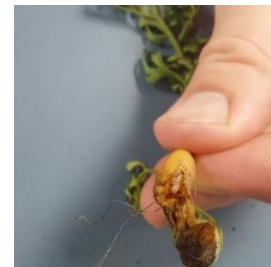
Madison Sirois - Scout

Damage from 1<sup>st</sup> generation onion maggots has been low. The majority of damage has been seen in transplant onions.

For weed control, post weed emergence herbicides include Goal 2XL, Pardner and bromoxynil products. Registered herbicides can be found in the [Ontario Crop Protection Hub](#).

### Carrot Update

Many carrot fields are at the 4<sup>th</sup> – 5<sup>th</sup> true leaf stage. The 1<sup>st</sup> generation carrot weevil egg laying period is complete and activity has decreased. Later seeded carrots should miss the majority of this egg laying period. If your carrots are at the 4<sup>th</sup> true leaf stage and your field is over the 5 weevils/trap threshold we recommend an additional Rimon 10 EC or Exirel spray for good control.



Eriel Strauch - Scout



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Aster leafhopper numbers are variable but have been increasing in some 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.

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

## Celery Update

Leaf blights, mainly early blight and soil borne diseases being identified in celery. There are many fungicides registered to manage blights in celery, which can be found on the [Ontario Crop Protection Hub](#). If you are finding celery leaf curl in your field, Switch 62.5 WG and Quadris Flowable are registered for control. Insect damage has been minimal so far.

## Daily Weather

Date (July)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
4	30.55	16.22	0
5	28.89	17.61	0.4
6	27.53	16.37	0
7	29.11	13.76	0

Soil Temperature (°C): 5cm: 22.2

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

