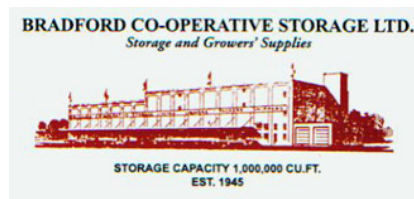




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# Muck Crops Research Station Agriphone 2019

## Highlights for 23 July

- Thrips counts are going up, still very low throughout fields but some border infestations
- Onion maggot fly counts are increasing, the second generation has started
- Onions (transplants) fields lodging, some fields over half lodged while others haven't started
- Some carrot canopies are near closing

## Disease Forecasting Highlight:

| BOTCAST<br>(Botrytis leaf blight) | DOWNCAST<br>(Onion downy mildew) | BSP Cast<br>(Stemphylium leaf blight) | White Rot<br>on onions | Sclerotinia<br>(White Mold)<br>on Carrot | TOMCAST<br>(General conditions for disease) | BREMCAT<br>(Lettuce downy mildew) |
|-----------------------------------|----------------------------------|---------------------------------------|------------------------|--|---|-----------------------------------|
| LOW RISK                          | LOW RISK                         | HIGH RISK                             | LOW RISK               | LOW RISK                                 | LOW RISK                                    | LOW RISK                          |

### Onion Update:

Stemphylium is still the number one concern with onions in the marsh. The weather over the past week has been ideal for stemphylium to infect and develop. Luna Tranquility rotated with Quadris Top is still our best option, although Aprovia and Sercadis are also available. Luna Tranquility, Aprovia, and Sercadis all contain Group 7 fungicides and should not be rotated after each other; always ensure you get fungicides with a different group in-between group 7 applications to ensure these products maintain their effectiveness against stemphylium.

Thrip numbers are increasing. Typically, infestations are only in the borders and while some damage has been seen it is low, with some fields still with no thrips. For starting thrip control, Movento is recommended. Typically, two applications go on, with the second application needing to be a maximum two weeks after the first for ideal control. Movento should also be applied with a surfactant to ensure good coverage and control. Movento also can take 3-4 days to show signs of control, so allow it some time to give good control.

To date, there has been very low risk of downy mildew and no symptoms seen yet.

### Carrot Update:

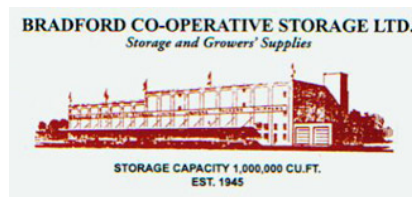
Carrot canopy is close to closing in some fields. One canopies are closed, we'll begin forecasting for white mold risk. Right now, soils are much too dry for white mold to develop, but with irrigation and canopies starting to close that could change. Allegro and Luna Sensation are registered to apply to carrots if white mold is a concern (more important for fields with a history of the disease), but currently there's a low chance white mold could develop even if the canopy is closing.

Carrot rust flies are starting to emerge, but trap counts are low in most areas.





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### Celery Update:

The weather is ideal for leaf curl to develop, particularly soon after celery fields are irrigated. Switch and Quadris Flowable are registered for leaf curl control.

### Disease Forecasting:

| Disease model                            | Cumulative DSI                               | Change since last report | Comments   |
|--|--|--------------------------|--|
| BOTCAST (Botrytis leaf blight)           | 83   | 0                        | Low risk   |
| DOWNCAST (Onion downy mildew)            | No sporulation-infection periods             |                          | Low risk, temperature high, relative humidity low  |
| BSPCast (Stemphylium leaf blight)        | 4 of 4 previous days with favourable weather | High activity            | High risk for disease development                  |
| White Rot on Onions                      | 0  | 0                        | Soil temps too warm                                |
| Sclerotinia (White Mold) on Carrot       | 0  | 0                        | No risk until canopy closure, soil too dry         |
| TOMCAST (General conditions for disease) | 85   | +11                      | Generally good weather for leaf blights to develop |
| BREMCAST (Lettuce downy mildew)          | 1 sporulation-infection period               | Little activity          | Low risk   |

### Daily Weather and Soil Temperatures:

| Date (Month, year) | Max temperature | Min temperature | Rain (mm) |
|--------------------|-----------------|-----------------|-----------|
| 19                 | 32.3            | 21.6            | 7.6       |
| 20                 | 34.5            | 23.2            | 1.8       |
| 21                 | 28.0            | 16.1            | 0.0       |
| 22                 | 25.7            | 15.1            | 1.2       |

Soil Temperature (°C): 5cm: 24.5      10cm: 24.3      20 cm: 24.3

Any questions or comments? Please call Zach Telfer or Mary Ruth McDonald at 905-775-3783

