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Muck Crops Research Station Agriphone 2019

Highlights for 27 August

- Continued early carrot harvest throughout the marsh
- Onion harvest is underway and most fields are lodging
- Onion scouting will be finishing up this week
- The Muck Crops Research Station Grower Field Day is next week on Thursday, September 5th
- Zach Telfer has moved on to a new position with the University of Guelph in the Office of Research. Going forward, Tyler Blauel will be sending out the Agriphone and will be taking over as the IPM Program Coordinator. I look forward to working with you all for the remainder of the season and next year!

Disease Forecasting Highlight:

BOTCAST (Botrytis leaf blight)	DOWNCAST (Onion downy mildew)	BSP Cast (Stemphylium leaf blight)	White Rot on onions	Sclerotinia (White Mold) on Carrot	TOMCAST (General conditions for disease)	BREMCAST (Lettuce downy mildew)
LOW RISK	LOW RISK	LOW RISK	LOW RISK	LOW RISK	MODERATE RISK	HIGH RISK

Onion Update:

Some thrips continue to be found but are likely not of concern as they are well below the threshold. The risk of stemphylium has slowed down due to the cooler weather we have been experiencing in the marsh. White rot has been seen in some fields, but only affecting a small area. It is always good practice to remove any culled onions from the field and clean all equipment used in fields where white rot is present. Overall, onions seem to be in good condition and the weather has allowed for steady harvesting. For storage onions, be sure to get Royal MH on while there is plenty of green still on the leaves so that it can be moved to the bulbs as they size up.

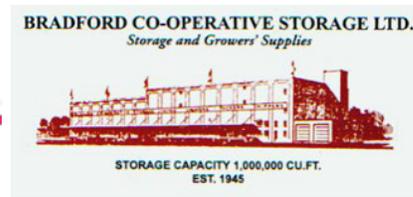
Carrot Update:

Leaf blights are present in some fields but only on a low percentage of plants. The cool mornings and prolonged leaf wetness assist in the development of leaf blights. Low levels of leaf blight development are fine as our threshold is 25% of plants infected. If you do notice leaf blights to be an issue, Cabri, Flint, Quadris Top, Manzate/Dithane/Penncozeb, Polyram and Bravo/Echo are registered for both Cercospora and Alternaria leaf blights. Copper 52W is registered only for Cercospora. Fontelis, Sercadis, Cantus, Pristine, Switch and Allegro are registered only to control Alternaria. Rust fly has also continued to be low and sporadic throughout the marsh. We have had some cases of leaf discoloration likely related to





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nutrients and/or soil pH but are not of serious concern. If you are concerned about nutrient/pH issues we advise that you contact your fertilizer representative.

Celery Update:

Blackheart (calcium deficiency) has been seen in some fields. Leaf curl has been found in the marsh and if you see any symptoms, Quadris Flowable and Switch are registered. If you're applying Flint for leaf blights, it will also provide some control of leaf curl. Tarnished plant bug and carrot weevil feeding on stalks has been seen, but it's been low.

Disease Forecasting:

Disease model	Cumulative DSI	Change since last report	Comments
BOTCAST (Botrytis leaf blight)	104	+6	Low risk, no inoculum
DOWNCAST (Onion downy mildew)	1 sporulation-infection period	Little activity	Low risk, 3 sporulation-infection periods needed in a row to be of high concern
BSPCast (Stemphylium leaf blight)	Conditions have not been favourable for development	Reduced activity	Low risk, activity has decreased over the past 4 days
White Rot on Onions	4	Some activity	Low risk, disease takes several weeks to develop and onions should be harvested before then
Sclerotinia (White Mold) on Carrot	0	No activity	Soil too dry for white mold
TOMCAST (General conditions for disease)	138	+4	Moderate risk, good conditions for leaf blights to develop
BREMCAST (Lettuce downy mildew)	4 sporulation-infection periods	Continued high activity	High risk, ideal conditions for lettuce downy mildew

Daily Weather and Soil Temperatures:

Date (August, 2019)	Max temperature	Min temperature	Rain (mm)
23	22.7	9.2	0.0
24	23.4	6.9	0.0
25	24.5	6.7	0.0
26	24.4	14.4	0.0

Soil Temperature (°C): 5cm: 21.0

10cm: 22.0

20cm: 20.8

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

