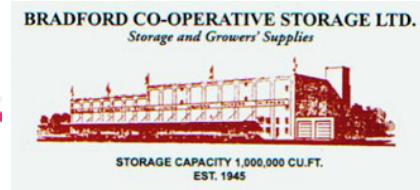




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Muck Crops Research Station Agriphone 2019

Highlights for 30 August

- High risk for the development of leaf blights this week
- Onion scouting has finished for the year
- Carrot scouting will continue
- Agriphone reports will be sent out once per week for the month of September
- Reminder: The Muck Crops Research Station Grower Field Day highlighting our research and variety trials will be held on Thursday, September 5 from 8:30 am – 4 pm at the station

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	MODERATE RISK	LOW RISK	LOW RISK	HIGH RISK	MODERATE RISK

Onion Update:

As scouting finishes up for the season, onions are looking good as they are harvested throughout the marsh. White rot and onion maggot damage has been low for the most part in many fields. Remember to apply Royal MH to onions headed to storage while the leaves are still green to ensure the bulbs can uptake enough of the anti-sprouting product. The past few days have been good conditions for the development of stemphylium. Rotating group 7s (Luna Tranquility, Aprovia, Sercadis) with Quadris Top, ensuring never to apply two group 7 products after each other, is our best recommendation for stemphylium. Most of the yellowing tips seen throughout the marsh is likely due to pink root, which has been a larger problem this year. Some onion cultivars may be less susceptible to pink root than others; unfortunately, not much can be done for control other than ensure the onions have the best possible growing conditions.

Once fields are completely lodged, we don't recommend applying additional pesticides as it is often not economical after the leaves begin to die.

Carrot Update:

Conditions have been ideal this past week for the development of leaf blights. If you notice any symptoms of Cercospora and/or Alternaria, Cabri, Flint, Quadris Top, Manzate/Dithane/Penncozeb, Polyram, and Bravo/Echo are registered. Also, Copper 52W is only registered for Cercospora and Fontelis, Sercadis, Cantus, Pristine, Switch, and Allegro are only registered for Alternaria. Our threshold for leaf blights is 25% of the plants infected. Insect activity seems to be lowering throughout the marsh. We have had some cases of leaf discolouration likely related to nutrients and/or soil pH but are not of



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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)	110	+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)	Favourable conditions on 2/3 days	Increased activity	Moderate risk, activity has decreased over the past 4 days
White Rot on Onions	7	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)	145	+7	High risk, ideal conditions for leaf blights to develop
BREMCASE (Lettuce downy mildew)	2 sporulation-infection periods	Continued activity	Moderate risk, ideal conditions for lettuce downy mildew

Daily Weather and Soil Temperatures:

Date (August, 2019)	Max temperature	Min temperature	Rain (mm)
27	21.9	18.1	23.6
28	26.1	15.8	0.0
29	24.8	14.6	0.0

Soil Temperature (°C): 5cm: 20.0

10cm: 20.2

20cm: 20.0

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