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# Muck Crops Research Station Agriphone 2019

## Highlights for 6 September

- Carrot rust Fly has reached threshold in many carrot fields this week
- Carrot scouting will continue until the end of September – the scout for September is Alex Balduckie
- Agriphone reports will be sent out once per week for the month of September
- Onion scouting has finished for the year
- Thank you to all the growers and industry reps who attended The Muck Crops Research Station Grower Field Day

## 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	HIGH RISK

### 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. Carrot rust fly activity seems to be increasing throughout the marsh. If fields have reached threshold applications of Mako, Up-Cyde, Matador 120EC and Silencer 120EC are registered for rust fly control. These are best applied when you have caught rust flies in or around the field, and typically later in the day as rust flies enter the field in the evenings. Aster yellows, which leafhoppers can infect plants with, has been seen but leafhopper counts are quite low.

### Onion Update:

Many onion fields have lodged over the past week. 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. Stemphylium is active in fields that have not lodged. 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.





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### 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)	122	+12	Low risk, no inoculum
DOWNCAST (Onion downy mildew)	2 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 past 4 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
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
BREMCAST (Lettuce downy mildew)	sporulation-infection periods the past 7 days	Continued activity	High risk, ideal conditions for lettuce downy mildew

### Daily Weather and Soil Temperatures:

Date (September, 2019)	Max temperature	Min temperature	Rain (mm)
30	22.2	11.0	1.8
31	22.1	8.4	0
1	19.9	8.4	0.4
2	23.1	14.6	2.4
3	22.2	12.8	0
4	21.3	9.9	0
5	24.3	5.5	0

Soil Temperature (°C): 5cm:18.7

10cm: 20.6

20cm: 18.7

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

