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Muck Crops Research Station Agriphone 2019

Highlights for 2 August

- We are currently in the second generation for onion maggot and carrot rust fly
- Onion thrip and aster leafhopper counts generally low, but aster yellows is present
- Carrot leaf blights are around
- This weather is ideal to spread celery leaf curl if its present in your field

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)	BREMCAT (Lettuce downy mildew)
LOW RISK	LOW RISK	HIGH RISK	LOW RISK	LOW RISK	MODERATE RISK	LOW RISK

Onion Update:

Onion insects seem generally under control. Thrip counts haven't spiked at all in the past week and onion maggot fly counts have increased a little now that they're in the second generation but are still very low. Many transplant fields are lodging, although some seeded fields are struggling with pink root this year.

The real onion issue is stemphylium. It's very present throughout the marsh, although only a couple fields are having a real outbreak issue. Keeping up with a good rotation of products that contain a group 7 (Luna Tranquility, Aprovia, Sercadis) with Quadris Top is the best we can do. There are a lot of onions showing just tip yellowing, but as we're already in August this isn't necessarily stemphylium and could just be the onions starting to finish with the season.

Carrot Update:

Rust fly counts are up in a couple fields, but most fields are reporting no captures. Leaf blights are just starting, particularly as the canopy is closing. There are a range of products available for carrot leaf blights: Cabri, Flint, Quadris Top, Manzate/Dithane/Penncozeb, Polyram, and Bravo/Echo are registered for both Cercospora and Alternaria, while Copper 52W is registered just for Cercospora and Fontelis, Sercadis, Cantus, Pristine, Switch, and Allegro are registered to only control Alternaria. Currently, the risk of white mold is low, but Allegro is registered to help protect against white mold development and is best applied before the canopy completely closes.

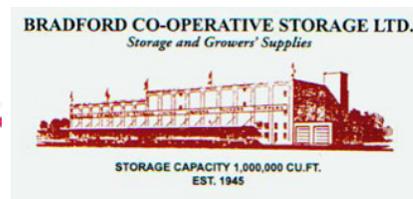
Celery Update:

Blackheart has been seen in the marsh, keep up with the calcium to keep it at bay. Leaf blights haven't really been seen in celery yet, but leaf curl has. Quadris and Switch are registered for leaf curl, and if you're applying Flint for blights it should give some control for leaf curl as well.





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Disease Forecasting:

Disease model	Cumulative DSI	Change since last report	Comments
BOTCAST (Botrytis leaf blight)	87	+4	Low activity
DOWNCAST (Onion downy mildew)	No sporulation-infection periods	No activity	Low risk of downy mildew, weather not conducive
BSPCast (Stemphylium leaf blight)	Good weather on past 3 of 3 days	High activity	Weather ideal for stemphylium, high risk
White Rot on Onions	1	+1	Soil temp. has cooled, allowing white rot to potentially start. Increased temps would stop it again
Sclerotinia (White Mold) on Carrot	0	0	Soil too dry for Sclerotinia
TOMCAST (General conditions for disease)	110	+12	Ideal conditions for leaf blights to develop
BREMCAST (Lettuce downy mildew)	1 sporulation infection period	Little activity	Risk is low

Daily Weather and Soil Temperatures:

Date (July/August)	Max temperature	Min temperature	Rain (mm)
30	28.7	17.7	6.2
31	27.4	13.0	0.0
1	28.3	10.2	0.0

Soil Temperature (°C): 5cm:23.9

10cm: 24.7

20 cm: 23.9

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

