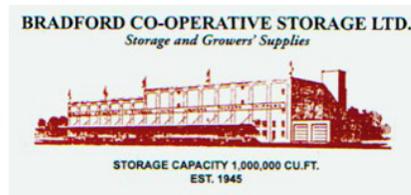




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# Muck Crops Research Station Agriphone 2019

## Highlights for 18 June

- Look for white rot developing in onion fields with a history of the disease
- There is a very SMALL chance downy mildew could occur in some fields, look for the purple fuzz
- Carrot weevil egg laying has dramatically increased over the past week

## 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-MODERATE RISK	LOW - MODERATE RISK	LOW RISK	HIGH RISK	LOW RISK	LOW RISK	LOW RISK

### Onion Update:

There is a slight risk that downy mildew could have occurred in some fields. This is not an alert that we need to spray, but just keep an eye on fields for any symptoms. If you find any symptoms, Zach would like to know. A picture has been included at the end of the report for reference. Most seeded fields are around the 2-3 true-leaf stage which likely doesn't keep enough humidity in the canopy to allow for downy mildew to develop. Keep a closer eye on the transplants. The weather conditions are also right for botrytis leaf blight, but we have not seen botrytis in several years so there is likely no disease inoculum available. The weather has also been conducive for white rot of onion early in the season. Fields with a history of the disease are the most likely spots for this to appear.

### Carrot Update:

Carrot weevil is the major problem in carrot fields now. Most fields are at bunny ear or the 1<sup>st</sup> true leaf. At the 2<sup>nd</sup> true-leaf stage, applications of Rimon are recommended. Exirel also works as a good rotation partner for Rimon. For early seeded fields, applications at the 2<sup>nd</sup> and 4<sup>th</sup> true-leaf stage are likely needed if you have a carrot weevil problem. Depending on seeding date, some fields may only need one or even no sprays for carrot weevil if they stop laying eggs before the carrots mature to the 2<sup>nd</sup>/4<sup>th</sup> true-leaf stage. Matador/Silencer 120 EC are also registered for carrot weevil. Carrot rust fly counts have been very low for the first generation.

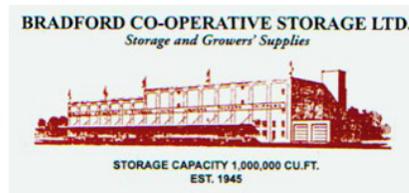
### Celery Update:

As mentioned in previous reports, carrot weevil could be a problem in early celery fields. If you're experience damage, you could start seeing it now or within the next 7-10 days.





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### Disease Forecasting:

Disease model	Cumulative DSI	Change	Comments
BOTCAST (Botrytis leaf blight)	36	+4	
DOWNCAST (Onion downy mildew)	2 Sporulation-infection periods	Some activity	No downy mildew has been seen, risk is low-moderate
BSPCast (Stemphylium leaf blight)	Low risk		
White Rot on Onions	32	+4	White rot can be present on onions
Sclerotinia (White Mold) on Carrot	0	0	
TOMCAST (General conditions for disease)	14	+2	Overall, most disease want more heat
BREMCAS (Lettuce downy mildew)	1 sporulation infection period		

### Daily Weather and Soil Temperatures:

Date (Month, year)	Max temperature	Min temperature	Rain (mm)
14	22.9	11.0	0.0
15	21.4	13.2	0.4
16	20.9	9.4	0.0
17	23.3	11.9	0.0

Soil Temperature (°C): 5cm: 18.3      10cm: 20.2      20 cm: 19.4



Onion downy mildew sporulation is a purplish fuzz on the onion leaf, and results in rapid leaf die-back.

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

