



Science For A Better Life



## MUCK CROPS RESEARCH STATION IPM 2017

### This is the Muck Crops Research Station Report and IPM Information for Friday June 30, 2017

The rain has continued, although there have been a couple chances for growers to get into their fields depending on location. Scouts are out, looking at fields the best they can. We've seen quite a few onions with old leaves starting to yellow and die from stress. While some of this is weather, we have confirmed stemphylium activity has started with spores occurring in at least one field. With the extensive runoff that has been happening in fields due to the rain, we'd also just like to remind growers that some side dressing of fertilizer, in particular nitrogen, could be needed.

#### **Onion**

We've started seeing some onion maggot damage occurring in fields. Not many onion maggots are being caught right now. Onion maggot fly counts are 0.44 flies/trap/day on station and 0.14 flies/trap/day at our Jane street field. In the marsh, thrips are very low likely due to the rain.

Disease activity is starting up in onions. Stemphylium has been confirmed in the marsh. Particularly with the weather stressing the leaves, onions may be susceptible to infection. The registered fungicides, Luna Tranquility, Sercadis, and Quadris Top, are only registered for suppression, meaning protective sprays are more valuable than reactive sprays. Sercadis also shares a mode of action with Luna Tranquility meaning they are not effective rotation partners. While we haven't seen botrytis yet, BOTCAST has reached its first threshold meaning the risk has increased.

#### **Carrot**

Most carrot fields are coming up, with a few fields putting on true leaves. Do not use Gesagard near the time of crop emergence or once the crop has emerged. Note that emerging carrots are very sensitive to Lorox and severe injury may occur if there is heavy rain, or if the area is irrigated.

Carrot weevil are finishing up their egg laying, having reached the 90% egg laying degree day threshold. The current cumulative weevil count is 16.5 weevils/trap on station and 18.9 weevils/trap at our Jane street field.

Rust fly counts are low generally. The current count is 0.08 flies/trap/day on station and 0.05 flies/trap/day at our Jane street field.

#### **Celery**

Lorox and Gesegard can be used for weed control in celery. Apply Lorox 8-10 days after transplanting. Do not apply Gesegard until 21 days after transplanting. So far, we have not seen much tarnished plant bug activity.

Remember celery requires several nutrients, as the heavy rainfalls may have leached some of the nutrients out. Calcium is important to prevent black heart, while magnesium (Epsom salts) and boron are important as well.

#### **Disease Forecasting**

**BOTCAST** – Cumulative disease severity index (CDSI) for botrytis currently at 24, risk is low to moderate. Protective sprays can be recommended particularly with the wet weather.

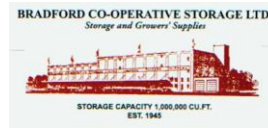
**DOWNCAST** – No sporulation has occurred, meaning risk of downy mildew on onion is low.

**BREMCAST** – There has been one sporulation infection periods (SIP) for downy mildew on lettuce in the past four days, meaning risk is low.





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**Soil Temperatures:**

June 22: 5 cm – 16.9  
10 cm – 16.6  
20 cm – 16.6

DATE (June, 2017)	TEMPERATURE (°C)		ACCUMULATED RAINFALL (mm)
	MAX	MIN	
27	18.5	10.2	2.4
28	20.7	9.1	0.0
29	25.0	9.7	12.8

