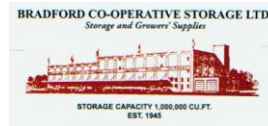




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## MUCK CROPS RESEARCH STATION IPM 2017

### This is the Muck Crops Research Station Report and IPM Information for Monday June 5, 2017

Sunday brought another large rainfall, totalling 12 mm on station.

#### *Onion Maggot Fly*

Onions are generally all up and starting to develop true leaves. Onion maggot fly counts are currently 1.0 flies/trap/day on station and 0.5 flies/trap/day at our Jane street field.

#### *Onion Thrips*

So far, we are not seeing onion thrip activity in the marsh.

#### *Carrot Rust Fly*

We have begun to catch carrot rust fly, with the current count on station is 0.2 flies/trap/day. The insecticide spray threshold for carrot rust fly is 0.1 flies/trap/day for fresh market and 0.2 flies/trap/day for processing carrots. Sprays can begin once the carrots reach the 2<sup>nd</sup> TLS if trap counts warrant it. Mako (used to be Ripcord), Up-Cyde, Matador/Warrior, and Silencer are registered for rust fly control. Diazinon has officially rotated out and is no longer registered for rust fly control.

#### *Carrot Weevil*

Carrot weevils are currently active and laying eggs, meaning early seeded fields are at risk of damage. The insecticide spray threshold for weevil control is a cumulative count of 1.5 weevils/trap. Imidan, Rimon, Matador/Warrior, and Silencer are currently registered for carrot weevil control, although recent research done by the research station has indicated Imidan may no longer be working as effectively due to the development of resistance. The current weevil count is 9.8 weevils/trap on station 5.5 weevils/trap at our Jane street field.

#### *Onion weed control*

Barley windbreaks should be sprayed when they are 10-15 cm (4-6) inches high. Most barley in onion fields is starting to yellow and die off. Excel Super, Post Ultra, Select, and Venture are registered for this use.

Most seeded onion fields in the marsh are at the 1<sup>st</sup> – 2<sup>nd</sup> leaf stage. Prowl H2O can be applied when onions are at the 2<sup>nd</sup> leaf stage. Prowl controls emerging weeds but does not control any existing weeds. Chateau WDG provides pre-emergence control of several common broadleaf weeds. It may be applied on onions between the 3-6 leaf stages. For post emergence broadleaf weed control, Aim, Goal and Pardner are registered. Goal can be applied when onions have two fully developed leaves and the onions have been exposed to one or two sunny days before application.

For transplant onions, Prowl and Goal can also be applied to once they are established, usually a good 10 days after transplanting. We have seen some Goal damage on onion transplants.

#### *Carrot*

Most carrot fields have now been seeded. 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.

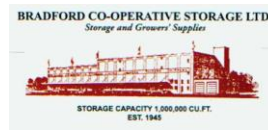




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### Celery

Tarnished plant bug nymph are emerging and may be appearing around the borders of fields now. Control of weeds is important as weeds can harbour tarnished plant bug.

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.

### Disease Forecasting

**BOTCAST** – The cumulative disease severity index (CDSI) for BOTCAST is currently at 10. Risk doesn't increase until a CDSI of 21, therefore risk is currently low.

**DOWNCAST** – The weather hasn't provided adequate conditions for downy mildew on onions to sporulate, meaning the risk is currently low.

**BREMCAS**T – There have been one sporulation infection periods (SIP) for downy mildew on lettuce in the past four days, meaning risk is low to moderate.

### Soil Temperatures:

June 4: 5 cm – 17.1  
10 cm – 18.5  
20 cm – 15.5

DATE (June, 2017)	TEMPERATURE (°C)		ACCUMULATED RAINFALL (mm)
	MAX	MIN	
1	22.4	11.4	0.2
2	17.4	8.9	0
3	18.9	6.0	0
4	22.7	7.0	12.0



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