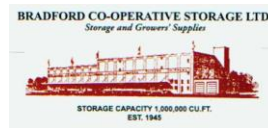




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## MUCK CROPS RESEARCH STATION IPM 2017

**This is the Muck Crops Research Station Report and IPM Information for Thursday June 15, 2017**

### ***Onion Maggot Fly***

Most onions have at least a true leaf now, if not multiple. We've started seeing some onion maggot damage occurring in fields. Onion maggot fly counts are currently 0.25 flies/trap/day on station and 0.16 flies/trap/day at our Jane street field.

### ***Onion Thrips***

So far, we have not seen a lot of thrip activity, although thrips have been spotted in a couple fields.

### ***Carrot Rust Fly***

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. The current count on station is 0.04 flies/trap/day and at our Jane street field the count is 0.16 flies/trap/day.

### ***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. 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 cumulative weevil count is 14.5 weevils/trap on station and 14.9 weevils/trap at our Jane street field.

### ***Onion weed control***

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 and many are emerging. 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.

### ***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.

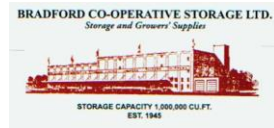




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**Disease Forecasting**

**BOTCAST** – Cumulative disease severity index (CDSI) for botrytis currently at 14, therefore risk is currently low.

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

**BREMCAS**T – There have been no sporulation infection periods (SIP) for downy mildew on lettuce in the past four days, meaning risk is low.

**TOMCAST** – CDSI of 11.

**Soil Temperatures:**

June 14: 5 cm – 19.7

10 cm – 19.2

20 cm – 19.4

DATE (June, 2017)	TEMPERATURE (°C)		ACCUMULATED RAINFALL (mm)
	MAX	MIN	
12	31.8	21.1	0
13	32.6	19.9	2.4
14	25.1	16.3	0



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