



Bayer CropScience



Canada



## MUCK CROPS RESEARCH STATION IPM 2016

**This is the Muck Crops Research Station Report and IPM Information for Monday June 6, 2016**

### *Carrot Rust Fly*

We are experiencing the 1<sup>st</sup> generation emergence of carrot rust fly and many fields have reached the spray threshold. Insecticide sprays can start once the carrots reach the 2<sup>nd</sup> true leaf stage and if the counts warrant it. Mako (Ripcord), Up-Cyde, Matador, Silencer, and Diazinon are all registered for control of carrot rust fly. Synthetic pyrethroid insecticides (Mako, Up-Cyde, Matador) break down quickly when temperatures are warm. It's best to spray on cool days or in the evening as the temperatures cool down. The spray threshold is 0.1 flies/trap/day for fresh market carrots and 0.2 flies/trap/day for processing carrots. The current count on station is 0.08 flies/trap/day.

### *Carrot Weevil*

Carrot weevils are active and are currently laying eggs so early seeded carrot fields are at a high risk for weevil damage. The insecticide spray threshold for weevils is a cumulative count of 1.5 weevils/trap. Apply treatments when the carrots reach 2<sup>nd</sup> true leaf stage. Imidan, Rimon, and Matador/Warrior are currently registered for carrot weevil control. The current count on station is 9.0 weevils/trap.

### *Onion Maggot Fly*

Onion maggot fly counts are still elevated in some fields but we seem to have past the 1<sup>st</sup> generation peak. The current count at the station is 2.8 flies/trap/day and 3.9 flies/trap/day at our Jane street field.

### *Onion Thrips*

Onions thrips have been found in scouted transplant onion fields. Currently counts are still low but may increase if temperatures increase.

### *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.

Foliar applications of manganese sulfate are recommended when onions are about 15 cm tall. This can be applied at a rate of 1.5 to 2.75 kg/ha in 300 L of water, repeated 4-5 times over the growing season and spaced 10 days apart.





Bayer CropScience



Canada



### ***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.

Aster leafhoppers have been found on our orange sticky traps in some carrot fields. At this time counts are low.

### ***Celery***

Tarnished plant bugs have emerged and we are starting to see them around the Marsh in weedy areas on the edge of fields.

Remember to check celery transplants for small black/brown spots which are signs of Septoria late blight. Don't plant infected transplants.

Lorox and Gesagard can be used for weed control in celery. Apply Lorox 8-10 days after transplanting. Do not apply Gesagard until 21 days after transplanting.

### **Soil Temperatures**

<b>June 6:</b>	5 cm = 18.3 °C
	10 cm = 17.6 °C
	20 cm = 15.9 °C

ANY QUESTIONS OR COMMENTS? Call Dennis Van Dyk or Mary Ruth McDonald at 905-775-3783

