



Bayer CropScience



Canada



Growing Forward
A federal-provincial-territorial initiative

MUCK CROPS RESEARCH STATION IPM 2016

This is the Muck Crops Research Station Report and IPM Information for Friday June 24, 2016

Carrot Weevil

Carrot weevil activity has slowed and we have reached the 90% egg laying threshold meaning most of the risk of damage has now passed. Recently re-seeded carrot fields should be at a low risk for carrot weevil damage. The insecticide spray threshold for weevils is a cumulative count of 1.5 weevils/trap and 5 weevils/trap for a second application. Apply treatments when the carrots reach 2nd true leaf stage and again at the 4th leaf stage if counts are above 5 weevils/trap. Imidan, Rimon, and Matador/Warrior are currently registered for carrot weevil control. The current cumulative count on station is 13.5 weevils/trap. We have seen some carrot weevil damage in fields with carrots around the 3-4 leaf stage.

Onion Insects

Onion thrips are being found in transplant onion fields and are also in some seeded onion fields but counts have leveled off and remain low to moderate. This may increase with some warm weather over the weekend but be sure to check your scouting reports for current counts. Our recommendation is to use two applications of Movento first, as it controls earlier life stages but not adults well and should give good lasting control early. Always apply two applications of the same product or group so that each generation of onion thrips is only exposed to one group of chemistry. **Onion thrips develop resistance quickly so resistance management is really important.** Diazinon, Dibrom, Agri-Mek, and Movento are registered for control. Delegate, Success, Entrust, and Exirel are registered for suppression. Matador, Silencer, Mako, UP-Cyde, and Decis are registered but onion thrips have had documented resistance.

We are seeing onion maggot damage in most seeded and transplanted onion fields. We have now passed the 1st generation of adult flies. The current count at the station is 3.5 flies/trap/day.

Onion Diseases

We have been monitoring scouted onion fields for stemphylium and botrytis leaf blight. We are not seeing spores on our spore traps and at this time stemphylium **has not** been found on transplanted or seeded onions. We are seeing some tip burn and natural leaf dieback, but no stemphylium has been isolated from these leaves.

Onion white rot has been found in some onion fields. The 2014 season was a big year for onion white rot and a lot of those fields are now going back into onion production. The weather has not been conducive for white rot development which is positive but make sure to monitor your fields regularly. If you do find white fungal growth or black sclerotia, do not leave these infected plants in the field. Rogue out plants and make sure they are disposed of carefully. Wash all implements used in infested area to reduce the spread.

Disease Forecasting

BOTCAST: The cumulative disease severity index (CDSI) for botrytis leaf blight is 14, so the risk for disease is low. Botrytis slows considerably when temperatures exceed 30°C. No disease symptoms have been found on onions.

DOWNCAST: The onion downy mildew forecasting model predicted no sporulation infection periods in the past 7 days. The risk of downy mildew is low in seeded and transplanted onions.





Bayer CropScience



Canada



BREMCAST: The lettuce downy mildew forecasting model predicted 2 sporulation infection period in the last 3 days so the risk of downy mildew on lettuce is moderate.

Celery

Lorox, Dual II Magnum, 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. Apply Dual II Magnum after transplanting prior to weed emergence.

Carrot Weed Control

Apply Gesegard as soon after seeding as possible. Do not apply near the time of crop emergence or once the crop has emerged. Pardner is also registered for muck soils. Apply 3-4 days prior to crop emergence. Do not irrigate carrots for 2 days following application or within 3 days of crop emergence. Emerging carrots are very sensitive to Lorox and severe injury may occur if there is heavy rain, or if the area is irrigated. Do not apply until at least the one true leaf stage.

Carrot Rust Fly

We seem to be passed the 1st generation peak as counts in most fields are low. The current count on station is 0 flies/trap/day.

Soil Temperatures

June 24:	5 cm = 16.2 °C
	10 cm = 15.8 °C
	20 cm = 15.9 °C

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

