



Bayer CropScience



MUCK CROPS RESEARCH STATION IPM 2016

This is the Muck Crops Research Station Report and IPM Information for Thursday July 7, 2016

Onion Insects

Onion thrips have been found in many scouted onion fields, some fields have reached the 1 thrips/leaf spray threshold but most fields are well below the threshold. Remember to 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. This is extremely important because we don't want to lose these products to resistance. To maximize your thrips control our recommendation is apply Movento first with a second application 10-14 days later. If thrips are still increasing later in the season and surpass the 1 thrips/leaf threshold, follow with two applications of a different chemistry. Diazinon, Dibrom, Agri-Mek, and Movento are registered for control. Delegate, Success, Entrust, and Exirel are registered for suppression. Matador, Silencer, Mako (Ripcord), UP-Cyde, and Decis are registered but onion thrips have had documented resistance.

We are approaching the 2nd generation emergence of onion maggot flies and damage from the 1st generation is still being found. The current count at the station is 2.7 flies/trap/day.

Celery

High counts of tarnished plant bug and aster leafhoppers have been found on orange sticky cards in a few carrot fields. At this time no damage has been reported but monitor your fields carefully, especially along the edges.

We are seeing bacterial rot in celery as well as in some onion fields due to the warmer temperatures and sufficient irrigation. A copper spray along with mancozeb (Dithane, Penncozeb, Manzate) should help reduce the spread of bacterial diseases.

No celery leaf curl has been seen in scouted celery fields.

Onion Diseases and Disease Forecasting

Early stemphylium leaf blight and purple blotch lesions are starting to be found on onion leaves that are older/dying off or leaves that have significant herbicide damage. Products registered for stemphylium leaf blight are Luna Tranquility, Quadris Top and Sercadis. For purple blotch Inspire, Fontelis, Quadris Top, Pristine, Cantus, Scala, Switch, Cabrio, Aliette, and Manzate are registered for control.

Chateau WDG provides pre-emergence control of several common broadleaf weeds. It may be applied once per season between the 3-6 leaf stages.

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.

BOTCAST: The cumulative disease severity index (CDSI) for botrytis leaf blight is 18, so the risk for disease is low. Risk of botrytis is low when temperatures exceed 30°C which we have had the last two days.

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 onions and low to moderate in transplanted onions.

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





Carrot Insects

Carrot weevil activity has slowed significantly and weevil traps will be removed from scouted carrot fields this week except for fields that were re-seeded.

For carrot rust fly we seem to be past the 1st generation peak as counts in most fields are low.

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

