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MUCK CROPS RESEARCH STATION IPM 2016

This is the Muck Crops Research Station Report and IPM Information for Monday July 11, 2016

On Friday July 8, parts of the Holland Marsh and Bradford area received a significant hail storm. Some onion fields received a devastating amount of foliar damage and some carrot fields were damaged as well. There was flooding in some fields due to the large amount of rain. Our weather station in Ansnorveldt recorded 62 mm of rain but some areas may have received more than that amount. The amount of rain received varied greatly as our station recorded 13 mm of rainfall.

Hail and pelting rain damage provides an entry for bacterial and fungal pathogens. To help prevent infection continue to apply mancozeb and products containing copper. Products containing mancozeb (Dithane, Penncozeb, and Manzate) also contain zinc and manganese which may help prevent fungal infection. The addition of magnesium could also be beneficial.

Onion

Both stemphylium leaf blight and purple blotch lesions are being found in more scouted onion fields but incidence at this time is still low. 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.

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.

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

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 pink rot and bacterial rot in celery 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 or leaf blights have been reported yet.

Carrot Insects

Carrot weevil and carrot rust fly damage has been showing up in scouted carrot fields around the Marsh.

Carrot rust fly counts in most fields are low as we are currently between the 1st and 2nd generations.

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.





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We are approaching the 2nd generation emergence of onion maggot flies and counts seem to be slightly elevated. The current count at the station is 4.5 flies/trap/day.

Disease Forecasting

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.

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 4 sporulation infection periods in the last 4 days so the risk of downy mildew on lettuce is moderate to high.

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

