



MUCK CROPS RESEARCH STATION IPM 2015

This is the Muck Crops Research Station Report and IPM Information for Tuesday July 28, 2015

Onion Downy Mildew Alert

Downy mildew continues to be found in scouted onion fields around the Holland Marsh and is the main concern on onions. At this time growers should spray for downy mildew control regularly. Mancozeb (Dithane, Penncozeb and Manzate), Ridomil Gold, Pristine, Cabrio, Rovral, Aliette, Revus, Serenade Max, Quadris Top, Reason, Zampro and Acrobat are registered for onion downy mildew control. Rotate fungicides with different chemical groups. Aliette should not be tank mixed with other products, especially not with micronutrients.

Growers should monitor your fields regularly for downy mildew. Fungicide sprays aim to protect and prevent further spread of downy mildew. Leaves with actively sporulating lesions (fine grey/purple fuzzy growth) will turn yellow and die. The hot weather recently will hopefully help slow the spread of the disease. If growers plan to apply Royal MH and store onions it may be important to preserve healthy leaf area for proper application.

With this recent stretch of hotter weather and little rain we are seeing an increase in onion thrips. Thrips have been found in most scouted fields and some fields have reached the spray threshold of 1 thrips/leaf. 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. Onion thrips develop resistance quickly so always apply two subsequent applications of the same product or group so that each generation of onion thrips is only exposed to one group of chemistry.

Stemphylium leaf blight, purple blotch, and tip burn have been found in most scouted onion fields. Quadris Top, Fontelis, mancozeb (Dithane, Penncozeb, and Manzate), Pristine, Lance, Cabrio, Inspire, Aliette, Cantus, Scala, and Switch are registered fungicides.

Aster leafhopper counts have been quite variable recently as some fields have reached the threshold for insecticide spray. Sevin, Admire, Actara, and Surround are registered for control of aster leafhoppers.

BREMCAST: The lettuce downy mildew forecasting model predicted only 3 sporulation infection periods in the last 4 days. The risk of downy mildew on lettuce is high.

BOTCAST: The cumulative disease severity index (CDSI) for botrytis leaf blight is now at 38. The risk of botrytis leaf blight at this time is moderate. Botrytis leaf blight usually slows when temperatures exceed 30°C. Growers should monitor their fields to determine if lesion counts are increasing.

A combination of warm and wet weather makes a good environment for bacterial disease development. Damage from insects or other problems can increase the risk. We have observed bacterial infections in onions and celery.

Onion maggot fly activity has been slightly elevated in some areas of the Marsh. The current count on station is 3.7 flies/trap/day.

We have reached the DD threshold for 2nd generation emergence of carrot rust fly. Counts have generally remained low while some fields have slightly elevated counts. No flies were caught on station in the last 4 days. The spray threshold is 0.1 flies/trap/day for fresh market carrots and 0.2 flies/trap/day for processing carrots. Mako (formerly Ripcord), Up-Cyde, Matador, Silencer, and Diazinon are registered for control of carrot rust fly.





Carrot leaf blight is being found in some of the scouted carrot fields. The spray threshold is 25% incidence and risk increases with increased moisture and humidity at canopy closure.

Tarnished plant bug activity appears to be low so far this year. No significant damage on celery has been reported yet.

Soil temperatures at the Research Station for July 28 at 5 cm, 10 cm and 20 cm depths were 26.6°C, 25.4°C and 23.1°C, respectively.

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

