



## MUCK CROPS RESEARCH STATION IPM 2015

### This is the Muck Crops Research Station Report and IPM Information for Tuesday August 11, 2015

The recent weather conditions are ideal for foliage disease development in both carrots and onions. Stemphylium is still being found in scouted fields and can spread quickly as leaves die off and the onions lodge. Our scouts have been finding new lesions of downy mildew which means the disease has started to re-emerge and risk is high. Downy mildew spores have been caught on our roto-rod spore traps. Continue to spray downy mildew specific fungicides at regular intervals in order to preserve enough healthy leaf tissue for Royal MH application. 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. Please contact the station if you have any questions regarding fungicide applications.

We have seen an increase in black heart of celery this year caused by calcium deficiency. Foliar application of calcium in the form of calcium chloride or calcium nitrate reduces development of black heart. Celery leaf curl also causes rotting of the inner leaves and can sometimes be mistaken for black heart of celery. Correct diagnosis is important to apply the correct treatment.

Our scouts have found some bacterial infections in onion fields. Monitor your fields as bacterial infections can spread through rainfall by splashing.

Carrot leaf blight has been found in most scouted carrot fields. The risk of leaf blight increases when the crop canopy closes in along with increased moisture and humidity. The spray threshold is 25% disease incidence. Bravo, Echo, mancozeb (Dithane, Pancozeb, and Manzate), Pristine, Cabrio, Lance, Cantus, Switch, and Allegro are registered for control of carrot leaf blight.

**BOTCAST:** The cumulative disease severity index (CDSI) for botrytis leaf blight is increasing and is now at 50 CDSI. The risk of botrytis leaf blight is high. Some of the fungicides registered for control of stemphylium and purple blotch will also help to manage botrytis leaf blight.

Onion thrips counts seem to have leveled off while some fields have reached the spray threshold of 1 thrips/leaf. The current count on station is 0.31 thrips/leaf.

Onion maggot fly counts have been moderate in most areas. The current count on station is 4.8 flies/trap/day.

Carrot rust fly activity has also been moderate. The current count on station is 0.05 flies/trap/day. The spray threshold is 0.1 flies/trap/day for fresh market carrots and 0.2 flies/trap/day for processing carrots. Mako (Ripcord), Up-Cyde, Matador, Silencer, and Diazinon are registered for control of carrot rust fly.

Both early blight, late blight, and celery leaf curl have been found in scouted celery fields this season. Quadris Flowable, Flint, Copper 53W, Copper spray, mancozeb (Dithane, Penncozeb, Manzate), Polyram, and chlorothalonil (Bravo, Echo) are registered for control of leaf blights on celery. Pristine is registered for suppression of early and late blight.

**BREMCAST:** The lettuce downy mildew forecasting model predicted 9 sporulation infection periods in the last 9 days. Weather conditions have been ideal for downy mildew infection.

Soil temperatures at the Research Station for August 11 at 5 cm, 10 cm and 20 cm depths were 18.9°C, 20.1°C and 20.8°C, respectively.

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





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