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## MUCK CROPS RESEARCH STATION IPM 2013

### This is the Muck Crops Research Station Report and IPM Information for May 27, 2013

In the last few days we had cool nights with frost. We believe we had frost damage on flag leaves of onions at our research plots at the station and at our Jane street site. Symptoms of frost damage on onions include girdling and yellowing of tissue at or near soil level. Due to excessive soil moisture we had last week and the cool nights of the last few days, most onions are very tender and vulnerable. This event may also lead to uneven crop development. Thus, growers should be cautious when applying herbicides to their crops.

Most growers around the marsh are engaged in seeding their carrots. To reduce wind erosion in carrots, barley can be used. Broadcast barley at a rate of 45-50 lbs/acre.

For carrot weed control, Gesagard and Lorox are registered for pre-emergence use. Use Gesagard well before crop emergence. Note that emerging carrots are very sensitive to Lorox and severe injury may occur if there is heavy rain, or if the field is irrigated.

For damping off and cavity spot of carrots, Ridomil 1G and Reason 500SC are registered. Apply the granular formulation in the seed furrow at a rate of 25 Kg/ha or 215 g/100m of row. Reason application can be made within 7 days after planting. Ranman 400SC is registered for the suppression of cavity spot. A maximum of one application per season of Ranman is allowed, as post-plant, pre-emergent application within 3 days after planting. Please refer label for information on applications.

Ridomil Gold 1G is also registered for the control of damping-off caused by *Pythium* in lettuce. Apply Ridomil Gold 1G in the seed furrow at the time of seeding and do not use on transplanted lettuce.

We have reached degree days (DD) threshold for most insect pest emergence. Onion fly activity has slowed down and the current fly count at our station is 4.1 flies/trap/day.

The cumulative carrot weevil count at our Research Station currently is 5.3 weevils/trap. Insecticide spray threshold for weevils is a cumulative count of 1.5 weevil/trap. Apply control treatments only when the carrots reach 2<sup>nd</sup> true leaf stage and only if the population justifies it. Imidan and matador/silencer are registered for carrot weevil control.

Carrot rust fly DD have reached for the first generation emergence. No rust fly has been found on the sticky traps at our Research Station.

We have reached degree day threshold for tarnished plant bug emergence, but we have not seen tarnished plant bugs in celery around the marsh. Weeds can harbour tarnished plant bug and thus weed control is essential at this moment.

In celery, Lorox and Gesagard can be used for weed control. Apply Lorox 8-10 days after transplanting. Do not apply Gesagard until 21 days after transplanting.

We received less than 1 mm rain between May 24 and 26. Soil temperatures at the Research Station for May 26 at the 5 and 10 cm depth were 10.3°C and 10.6°C respectively.

ANY QUESTIONS OR COMMENTS? Call Michael Tesfaendrias or Mary Ruth McDonald at 905-775-3783



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