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## MUCK CROPS RESEARCH STATION IPM 2014

### This is the Muck Crops Research Station Report and IPM Information for Monday June 30, 2014

Carrot weevil activity has slowed in most fields. The cumulative carrot weevil count at our station is 18.8 weevils/trap. The cumulative spray threshold is 1.5 weevil/trap threshold. Treatment should start when the carrots are at the 2<sup>nd</sup> leaf stage. When the cumulative count is above 5 weevils/trap, a second spray is recommended at the 4<sup>th</sup> leaf stage (10-14 days after 1<sup>st</sup> spray). Imidan and Matador/Warrior are registered for control of carrot weevil.

Bacterial leaf spot has been confirmed in celery fields. Carefully monitor your fields and if your field is infected with bacterial leaf spot do not enter when it is wet.

Onion thrips have been seen on onions in a number of fields but the counts are low. Growers should monitor your fields for onion thrips, particularly transplanted onions. The spray threshold is 1 thrips/leaf.

Carrot rust fly numbers are down over the weekend. The current count at our 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. Ripcord, Up-Cyde, Matador, Silencer, and Diazinon are registered for control of carrot rust fly.

Aster leafhoppers are being caught in a number of carrot and celery fields but the counts are still low so no sprays are recommended yet.

Onion fly counts are down over the weekend. The current count at our station is 0.5 flies/trap/day.

**BOTCAST:** The cumulative disease severity index (CDSI) for botrytis leaf blight is 16, so the risk for disease is low to moderate. We have detected the presence of Botrytis spores in our spore traps but the numbers are low.

**DOWNCAST:** The onion downy mildew forecasting model predicted no sporulation infection periods in the past 4 days. Taking into account the crop canopy size and weather forecast, 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 no sporulation infection period in the last 5 days. The risk of downy mildew on lettuce is low to moderate.

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 requires several micronutrients. Application of boron is recommended. Use caution when applying boron because it can build to toxic levels quite quickly, harming rotational crops. Start applying magnesium as Epsom salt or in another form every 10-14 days when the plants are 1/3 grown.

We have not seen tarnished plant bug (TPB) or TPB damage on celery as of yet.. Continue to control weedy areas surrounding fields.

Soil temperatures at the Research Station as of June 30 at the 20 cm depth is 19.0°C. No rain has accumulated in the past 4 days.

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

Follow us on twitter @MuckIPM for up-to-date disease alerts and insect emergence updates.



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