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MUCK CROPS RESEARCH STATION IPM 2014

This is the Muck Crops Research Station Report and IPM Information for Monday June 23, 2014

Carrot rust fly numbers have increased over the weekend. The current count at our station is 0.2 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.

The cumulative degree days (DD) for carrot weevil are at 488 DD, which means 90% of the eggs have been laid in the crop. Any later seeded carrots might avoid most of the carrot weevil damage this year. The current count at our station is 16.1 weevils/trap. The cumulative spray threshold is 1.5 weevil/trap threshold. Treatment should start when the carrots are at the 2nd leaf stage. When the cumulative count is above 5 weevils/trap, a second spray is recommended at the 4th leaf stage (10-14 days after 1st spray). Imidan and Matador/Warrior are registered for control of carrot weevil. To avoid burn, do not apply herbicides within 3 days after Imidan application.

We have seen wind and pelting rain damage in a large number of fields from the storm last week. Hail, wind, and pelting rain can bruise and damage leaves and provide an entry for bacterial and/or fungal pathogens. The risk of foliar disease may increase especially in fields with a larger canopy.

A few onion thrips have been seen in transplanted onions but we are still well below a spray threshold. Growers should monitor your fields for onion thrips, particularly transplanted onions. The spray threshold is 1 thrips/leaf.

Aster leafhoppers are being caught in some carrot fields but the counts are still low so no sprays are recommended yet. We may see adult emergence of our local population this week.

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.

Onion fly counts are up a little over the weekend even though the 1st generation has passed. The current count at our station is 4.25 flies/trap/day.

BOTCAST: The cumulative disease severity index (CDSI) for botrytis leaf blight is 10, so the risk for disease is low. Risk of downy mildew of onions and lettuce is low.

For weed control in onions, Goal and Pardner are registered for use on broadleaf weeds. Goal can be applied starting when the onions have 2 true leaves and after there has been dry, sunny weather for two days. Pardner can be applied at the 2-3 leaf and 4-5 leaf stages after the onion has developed an outer waxy layer. Aim is a contact herbicide for use on broadleaf weeds. Use with a hooded sprayer in between the rows. Chateau WDG provides pre-emergence control of several common broadleaf weeds. It may be applied once per season between the 3-6 leaf stages.

For postemergence carrot weed control, Lorox can be applied once the carrots are at the 2nd true leaf stage. Note that emerging carrots are very sensitive to Lorox and severe injury may occur if there is heavy rain, or if the area is irrigated.

Once celery is 1/3 grown, apply magnesium and boron. Use Epsom salt or other forms of magnesium and spray every 10-14 days.



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In celery, Lorox, Gesegard, and Poast Ultra can be used for weed control. Apply Lorox 8-10 days after transplanting. Do not apply Gesegard until 21 days after transplanting. Poast Ultra is registered for control of grasses.

Currently there have been no signs of tarnished plant bug or tarnished plant bug damage. Continue to control weedy areas surrounding fields.

Soil temperatures at the Research Station as of June at the 10 and 20 cm depths are 20.7°C and 18.2°C respectively. 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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