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MUCK CROPS RESEARCH STATION IPM 2014

This is the Muck Crops Research Station Report and IPM Information for Friday May 23, 2014

Carrot weevils are moving into fields and have reached the degree day (DD) threshold for laying eggs. Late-seeded carrots may escape the worst damage if the carrots have not emerged before the weevils finish laying eggs. Apply control treatments when the carrots reach 2nd true leaf stage if the population justify it. Imidan and Matador/Warrior are registered for carrot weevil control

In carrots, Ridomil 1G and Reason 500SC are registered for damping off and cavity spot control. Apply the granular formulation of Ridomil 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 and Torrent 400 SC are 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. Torrent can be applied post-plant, pre-emergent applied to soil within 3 days after seeding or broadcast or banded application 14 days after seeding. Please refer label for information on applications.

Carrot rust fly DD is at 313 DD which means we should reach the 1st generation emergence threshold by this weekend.

For carrot weed control, Gesegard, Lorox, and Prowl H2O are registered for pre-emergence use. Do not use Gesagard near the time of crop emergence or once the crop has emerged. 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. Prowl H2O has recently been registered as a pre-emergence herbicide for grasses, chickweed, lamb's-quarters and pigweed. Apply 2 days after planting prior to emergence, with adequate rainfall/irrigation within 7 days after application. A complete list of herbicides for pre and post-emergence weed control on carrots is listed in OMAF's pub. 75 (Guide to Weed Control) on pages 258-260.

Most onion fields are now at the loop and flag leaf stage. Keep an eye on barley wind break and spray when they are 10 to 15 cm (4 – 6 inches) in height. On muck soil, Prowl can be applied when onions are at the loop stage and again at the 2nd leaf stage. Prowl controls weeds as they emerge but do not control any existing weeds. Prowl can also be applied to onion transplants once they are established, usually a good 10 days after transplant once the roots have begun to spread and establish. Goal can also be applied once the transplants are established. The onions should be exposed to one or better yet two sunny days before application. Frontier Max is registered for control of yellow nutsedge pre-emergence. Apply once per growing season at the loop stage.

Onion maggot flies have reached the DD threshold for emergence and we anticipate counts will continue to increase over the weekend into next week. The current count at the station is 9.25 flies/trap/day.

We have reached the degree day threshold for tarnished plant bug emergence, but we have not seen any in celery around the marsh yet. Weeds can harbour tarnished plant bug so control of weedy areas is important at this time.

Soil temperatures at the Research Station as of May 23 at the 10 and 20 cm depths are 14.2°C and 11.8°C respectively. A total of 7.8 mm of rain has been accumulated in the past 3 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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