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MUCK CROPS RESEARCH STATION IPM 2014

This is the Muck Crops Research Station Report and IPM Information for Monday May 12, 2014

The last week has been ideal conditions for field operations. Growers around the Bradford/Holland have been busy seeding onions and early carrots, transplanting onions, celery, and Asian vegetables especially with more rain forecasted for this week. Most of the onion fields have been seeded, along with some carrot fields. A total of 0.7 mm of rain has been accumulated in the past 5 days.

To prevent wind erosion, barley can be used in onions and carrots. In onions, barley can be broadcast at a rate of 50-55 pounds per acre; seed the barley in rows using 60 seeds per metre. For carrots broadcast barley at a rate of 36-48 pounds per acre.

Since the weather has started to warm up, degree days have been accumulating fast this past week. Degree days for onion maggot are currently at 162, and first generation emgences begins at 210 DD. To reduce onion maggot problems, all volunteer onions and any remaining cull piles should be removed. Application of granular insecticide at seeding reduces first-generation damage. Lorsban 15 G and Pyrifos 15 G insecticides are registered for onion maggot control. Onion maggot fly traps have been set out at the station but no flies have been seen yet.

Prowl can 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.

Carrot Weevil DD is presently at 78 and adults will begin to lay eggs at 147 DD. We have set up weevil traps last week at our research station and carrot fields around the marsh to monitor movement of adult carrot weevils. No adult weevils have been found as of yet.

In carrots, Ridomil 1G and Reason are registered for damping off and cavity spot control. For Ridomil 1G, apply the granular formulation in the seed furrow at a rate of 25 Kg/ha or 215 g/100m of row. For Reason, apply at 600 ml/ha 7 days after planting along with sufficient rainfall or irrigation. Ranman 400SC is registered for the suppression of cavity spot. A maximum of one application per season is allowed, as post-plant, pre-emergent application within 3 days after planting.

Before transplanting celery, check all transplants for small, black brown spots that are the first signs of Septoria late blight. Don't use any transplants infected with late blight. Control fungus gnats in your greenhouse during transplant production and check your transplants for possible pea leaf minor damage before transplanting.

Soil temperatures at the Research Station for May 6 at the 10 and 20 cm depth were 11.3°C and 8.9°C respectively.

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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