



MUCK CROPS RESEARCH STATION IPM 2015

This is the Muck Crops Research Station Report and IPM Information for Thursday May 21, 2015

The lowest recorded temperature at our weather station over the past few days was 2.7 °C. We did not have a significant frost, although the risk of frost remains over the weekend. Soil temperatures have also dropped due to the low overnight temperatures.

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 2.5 flies/trap/day. To reduce onion maggot problems, all volunteer onions and any remaining cull piles should be removed.

Carrot fields continue to be worked and seeded this week. Some early seeded carrots have begun to emerge. 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.

Carrot weevils are moving into fields and have reached the degree day (DD) threshold for 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. Carrot rust flies have reached the degree day threshold for 1st generation emergence. No rust flies have been caught on orange sticky traps 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.

We have reached the degree day threshold for tarnished plant bug emergence, but we have not seen any in celery around the marsh yet.

Soil temperatures at the Research Station for May 21 at 5 cm, 10 cm and 20 cm depths were 9.8 °C, 11.9 °C and 13.0 °C respectively.

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

