

## MUCK CROPS RESEARCH STATION IPM 2016

### **This is the Muck Crops Research Station Report and IPM Information for Thursday August 18, 2016**

Many seeded onions fields around the Marsh are beginning to lodge. Maleic hydrazide (Royal MH 60) is applied to limit sprouting and extend storage life of most onion cultivars. Onion should have more than 3 green leaves when Royal MH 60 is applied. The optimum time for application is when at least 50 % of tops are down but the leaves are still green. Best results are obtained when Royal MH is applied in the early morning or on a cloudy day, and 24 hours before or after rain

#### ***Onion Diseases***

Bacterial infections have now been found in almost all scouted onion fields. Bacterial infections can spread through splashing from rainfall. Pink root has been observed in several scouted fields. Pink root is common in hot dry weather and at high soil temperatures. Also it is common toward field edges.

#### ***Celery Leaf Curl***

Tarnished plant bugs are seen in traps at station. Spray thresholds are 0.1 TPB/plant (transplanting – 3 weeks before harvest) and 0.2 TPB/plant (less than 3 weeks before harvest) and/or 6% of plants with damage

Celery leaf curl is seen in scouted celery fields. Incidence has been increasing with the later plantings of celery. Check your fields for curling/deformed leaves as well as rotting in the heart of the plant similar to calcium deficiency. Currently only Quadris is registered for control of celery leaf curl.

Black heart of celery without leaf cupping/leaf curl has been seen in celery fields, this is due to calcium deficiency. Foliar calcium application and irrigation are the suggested measures to limit development. Foliar application of calcium may help to reduce development of black heart.

#### ***Onion Insects***

Rainfall seems to have reduced the thrips count overall. But some scouted fields show counts close to threshold limits. The threshold is 1 thrips/leaf. Thrips move from harvested fields to adjacent fields. Onion thrips develop resistance quickly so always apply two subsequent applications of the same product or group. Scouted onion fields showed low onion maggot counts.

#### ***Carrot Insects***

Aster yellows symptoms continue to show up in carrot fields. Leaf hopper counts are low to moderate in scouted fields. Actara, Admire, Sevin, Surround and Sylvanto Prime are registered for aster leafhopper control.

Carrot rust flies counts are low in all scouted fields. The threshold is 0.1 flies/trap/day for fresh market carrots and 0.2 flies/trap/day for processing carrots. The count at station is 0.13 flies/trap/day. Mako, Up-Cyde, Matador, Silencer, and Diazinon are registered for control of carrot rust fly.

#### ***Disease Forecasting***

BOTCAST: The cumulative disease severity index (CDSI) for botrytis leaf blight is 19, so the risk for disease is low to moderate. Risk of botrytis is low when temperatures exceed 30°C.

DOWNCAST predicted 2 sporulation infection periods in the last 4 days. Risk of downy mildew in onions is low to moderate in seeded onions. No disease is seen in scouted fields and no spore has been observed in spore traps.

BREMCAST have both predicted no sporulation infection periods in the past 7 days.