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## MUCK CROPS RESEARCH STATION IPM 2015

### This is the Muck Crops Research Station Report and IPM Information for Wednesday September 2, 2015

The Muck Crops Research Station annual field day is Thursday, September 5, 2013 from 8:30 a.m. to 4:00 p.m. Feel free to come by and visit our onion and carrot variety trials as well as our research trials on station. Come see our trials on celery anthracnose variety and fungicide trials, onions thrips, downy mildew and stemphylium trials, as well our carrot insecticide and fungicide trials. Lunch will be complements of John Verkaik from Solar Seed. Coffee and donuts will be provided by Jim Robinson from Stokes Seeds.

This is the final week for scouting of onion fields in the Holland Marsh. Carrot and celery fields will continue to be scouted once per week until the end of September. As of next week the IPM updates will be sent out once per week.

Onion fields are progressing quite quickly and most fields have started to yellow and the leaves die back over the past week. This is probably due to a combination of foliar diseases (stemphylium and downy mildew) and the warmer temperatures we are experiencing. This may complicate Royal MH application as onions should have more than 3 green leaves when Royal MH is applied. The optimum time for application is when at least 50 percent of the tops have fallen, but tops 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.

It is important to seed a cover crop after an early field of transplant onions, celery, early carrots, or lettuce. Cover crops reduce erosion, run off, and at the same time improve the soil health. Different cover crop blends are also available.

Celery anthracnose has been found in all scouted celery fields this past season. Currently at the station we are running a fungicide trial, as well as a cultivar trial to determine differences in susceptibility. These trials will be available to view tomorrow during our grower field day if you are interested.

Onion maggot fly activity has been moderate recently. The current count at the station is 4.25 flies/trap/day.

Onion thrips are still present in onion fields but if the onions have started to lodge and the Royal MH is applied an insecticide spray is not recommended.

Aster leafhoppers numbers are low in all parts of the Holland marsh so no insecticide spray is recommended. Aster yellows have been found in carrot fields but incidence has been low so far this season.

Continue to monitor you fields for carrot leaf blight. The spray threshold is 25% disease incidence.

White mould caused by Sclerotinia has been seen in some carrot fields. There is a carrot trimmer available for use by all growers from the Holland Marsh Growers' Association. Trimming carrots not only reduces white mould in storage but also makes the harvesting of varieties with a lot of foliage easier without impacting yield. Only Allegro is registered for control of Sclerotinia on carrots.

Carrot rust fly activity has been low. The current count on station is 0.05 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.

The risk of lettuce downy mildew is high. Lettuce downy mildew has been confirmed in the Marsh.

Soil temperatures at the Research Station for September 2 at 5 cm, 10 cm and 20 cm depths were 25.9°C, 24.3°C and 21.7°C, respectively.

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



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