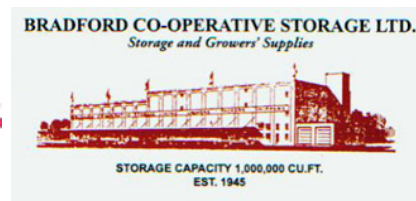




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Muck Crops Research Station Agriphone 2019

Highlights for 12 September

- Carrot rust fly continues to be at threshold in some fields this week
- Most early carrot fields have been harvested
- Onion lodging and harvesting continues throughout the marsh

Carrot Update:

As the carrot rust fly population has increased around the marsh, their threshold has been met in some fields. For fields that have reached threshold, Mako, Up-Cyde, Matador 120EC and Silencer 120EC are registered for carrot rust fly control. Typically, these are most effective when applied later in the day as rust flies enter fields in the evening.

Carrot leaf blights seem to be well managed around the marsh and should continue to be monitored. Our threshold is 25% of plants infected and if this threshold has been reached, Cabri, Flint, Quadris Top, Manzate/Dithane/Penncozeb, Polyram, and Bravo/Echo are registered for Cercospora and Alternaria. Also, Copper 52W is only registered for Cercospora and Fontelis, Sercadis, Cantus, Pristine, Switch, and Allegro are only registered for Alternaria.

Sclerotinia white mold does not seem to be a problem right now. Although most canopies are closed and we experienced some rain, it is still too dry for white mold development.

Onion Update:

Onions have continued to lodge over the past week. For those that have not been harvested, remember to apply Royal MH to onions headed to storage while the leaves are still green to ensure the bulbs can uptake enough of the anti-sprouting product.

Celery Update:

Blackheart (calcium deficiency) continues to be seen in some celery fields. Leaf curl has been found in the marsh and if you see any symptoms, Quadris Flowable and Switch are registered. If you're applying Flint for leaf blights, it will also provide some control of leaf curl. Tarnished plant bug and carrot weevil feeding on stalks has been seen, but it has still been low.





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Standard Growing Degree Day Model (starting 1 April):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
Growing degree days (DD base 5)	1745	60

Insect Degree Day Models:

MODELS	CUM DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
CARROT RUST FLY (DD base 3)	2053	Emergence at 329-395 DD (1 st gen)	Emergence at 1399-1711 DD (2 nd gen)	2 nd generation complete, in field activity
ONION MAGGOT (DD base 4)	1897	Emergence at 210 DD (1 st gen)	Emergence at 1025 DD (2 nd gen)	2 nd generation complete
CARROT WEEVIL (DD base 7)	1448	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	2 nd generation activity possible
ASTER LEAFHOPPER (DD base 9)	1172	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Active
TARNISHED PLANT BUG (DD base 12)	802	Activity can start at 40 DD		Active
CABBAGE MAGGOT (DD base 6)	1595	Emergence at 314 DD (1 st gen)	Emergence at 847 DD (2 nd gen)	Well past 2 nd generation
SEEDCORN MAGGOT (DD base 4)	1897	Emergence at 200 DD (1 st gen)	Emergence at 600 DD (2 nd gen)	Well past 2 nd generation

Daily Weather and Soil Temperatures:

Date (September, 2019)	Max temperature	Min temperature	Rain (mm)
6	20.9	8.2	2.0
7	22.3	8.6	1.6
8	17.6	6.9	0.2
9	21.0	1.7	0.0
10	23.6	5.8	18.4
11	27.2	15.8	4.6

Soil Temperature (°C): 5cm: 17.9

10cm: 18.4

20cm: 18.1

Any questions or comments? Please call Tyler Blauel or Mary Ruth McDonald at 905-775-3783

