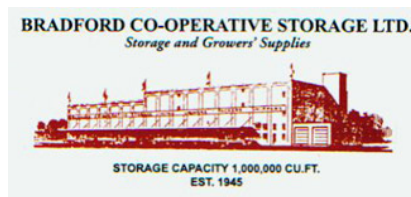




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# Muck Crops Research Station IPM 2019

Forecasting/weather information as of 7 June

Standard Growing Degree Day Model (starting 1 April):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
<b>Growing degree days</b> (DD base 5)	318	29

Insect Degree Day Models:

MODELS	CUM DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
<b>CARROT RUST FLY</b> (DD base 3)	432	Emergence at 329-395 DD (1 <sup>st</sup> gen)	Emergence at 1399-1711 DD (2 <sup>nd</sup> gen)	First generation active
<b>ONION MAGGOT</b> (DD base 4)	373	Emergence at 210 DD (1 <sup>st</sup> gen)	Emergence at 1025 DD (2 <sup>nd</sup> gen)	First generation active
<b>CARROT WEEVIL</b> (DD base 7)	214	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	
<b>ASTER LEAFHOPPER</b> (DD base 9)	132	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Nymphs possible
<b>TARNISHED PLANT BUG</b> (DD base 12)	53	Activity can start at 40 DD		Activity can begin
<b>CABBAGE MAGGOT</b> (DD base 6)	264	Emergence at 314 DD (1 <sup>st</sup> gen)	Emergence at 847 DD (2 <sup>nd</sup> gen)	First generation activity starting in the next 1-2 weeks
<b>SEEDCORN MAGGOT</b> (DD base 4)	373	Emergence at 200 DD (1 <sup>st</sup> gen)	Emergence at 600 DD (2 <sup>nd</sup> gen)	First generation active

Disease model	Cumulative DSI	Change since last report	Comments
BOTCAST (Botrytis leaf blight)	0	0	Low risk
DOWNCAST (Onion downy mildew)	No activity	None	Weather not conducive for disease





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Disease model	Cumulative DSI	Change since last report	Comments
BSPCast (Stemphylium leaf blight)	Low risk	None	Weather not conducive for disease
White Rot on Onions	21	+3	Weather continues to allow for white rot growth, nearing the stage where it may attack onions
Sclerotinia (White Mold) on Carrot	0	0	Weather not conducive for disease
TOMCAST (General conditions for diseases)	10	+3	Warmer weather slightly has increased risk
BREMCAST (Lettuce downy mildew)	1 sporulation infection period		Risk is still low, but every few days the weather has been favourable. Scouting is important to determine if you have an issue

Date (June 2019)	Max temperature	Min temperature	Rain (mm)
4	16.2	2.8	0.0
5	20.3	9.8	0.0
6	24.6	13.0	0.0

Soil Temperature (°C): 5cm: 18.7

10cm: 22.5

20 cm: 20.3

