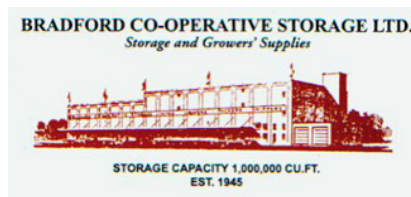




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# Muck Crops Research Station IPM 2019

Forecasting/weather information as of 31 May

Standard Growing Degree Day Model (starting 1 April):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
<b>Growing degree days (DD base 5)</b>	254	20

Insect Degree Day Models:

MODELS	CUM DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
<b>CARROT RUST FLY</b> (DD base 3)	354	Emergence at 329-395 DD (1 <sup>st</sup> gen)	Emergence at 1399-1711 DD (2 <sup>nd</sup> gen)	First generation emerging, no rust flies captured yet
<b>ONION MAGGOT</b> (DD base 4)	301	Emergence at 210 DD (1 <sup>st</sup> gen)	Emergence at 1025 DD (2 <sup>nd</sup> gen)	First generation active, fly captures low
<b>CARROT WEEVIL</b> (DD base 7)	165	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Egg laying has started and has been seen in fields
<b>ASTER LEAFHOPPER</b> (DD base 9)	96	Nymphs emerge at 128 DD	Adults emerge at 390 DD	
<b>TARNISHED PLANT BUG</b> (DD base 12)	34	Activity can start at 40 DD		Approaching activity starting
<b>CABBAGE MAGGOT</b> (DD base 6)	207	Emergence at 314 DD (1 <sup>st</sup> gen)	Emergence at 847 DD (2 <sup>nd</sup> gen)	
<b>SEEDCORN MAGGOT</b> (DD base 4)	301	Emergence at 200 DD (1 <sup>st</sup> gen)	Emergence at 600 DD (2 <sup>nd</sup> gen)	First generation active





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Disease model	Cumulative DSI	Change since last report	Comments
BOTCAST (Botrytis leaf blight)	0	0	Low risk
DOWNCAST (Onion downy mildew)	2 sporulation infection periods	Potential activity	Typically, 3 SIPs triggers the threshold for high risk. Most onions are still not up – transplants will be monitored closely
BSPCast (Stemphylium leaf blight)	3 day cumulative risk: 0.02		Little to no activity, 0.4 is lowest threshold
White Rot on Onions	14	+3	Soil conditions favourable for white rot growth, not yet attacking onions however
Sclerotinia (White Mold) on Carrot	0		
TOMCAST (General conditions for disease)	4	0	
BREMCAST (Lettuce downy mildew)	3 sporulation infection periods	High activity	Risk is medium to high for lettuce downy mildew

Date (May 2019)	Max temperature	Min temperature	Rain (mm)
28	13.2	10.2	13.4
29	17.1	11.0	0.0
30	24.0	7.0	0.0

Soil Temperature: 5cm: 16.2

10cm: 18.0

20 cm: 17.9

