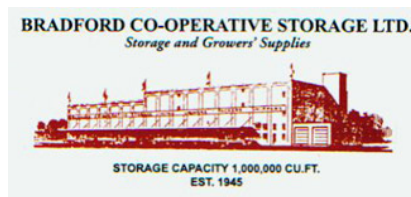




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# Muck Crops Research Station IPM 2019

Forecasting/weather information as of 24 May

Standard Growing Degree Day Model (starting April 1):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
<b>Growing degree days</b> (DD base 5)	<b>185</b>	<b>23</b>

Insect Degree Day Models:

MODELS	CUM DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
<b>CARROT RUST FLY</b> (DD base 3)	<b>270</b>	Emergence at 329-395 DD (1 <sup>st</sup> gen)	Emergence at 1399-1711 DD (2 <sup>nd</sup> gen)	1 <sup>st</sup> generation approaching
<b>ONION MAGGOT</b> (DD base 4)	<b>225</b>	Emergence at 210 DD (1 <sup>st</sup> gen)	Emergence at 1025 DD (2 <sup>nd</sup> gen)	1 <sup>st</sup> generation active
<b>CARROT WEEVIL</b> (DD base 7)	<b>109</b>	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Egg laying period approaching
<b>ASTER LEAFHOPPER</b> (DD base 9)	<b>55</b>	Nymphs emerge at 128 DD	Adults emerge at 390 DD	
<b>TARNISHED PLANT BUG</b> (DD base 12)	<b>14</b>	Activity can start at 40 DD		
<b>CABBAGE MAGGOT</b> (DD base 6)	<b>145</b>	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)	<b>225</b>	Emergence at 200 DD (1 <sup>st</sup> gen)	Emergence at 600 DD (2 <sup>nd</sup> gen)	

Disease Forecasting:

Disease forecasting models are currently running, however crops are mostly still establishing. For most diseases, there is no risk until leaf area is present.





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Disease model	Cumulative DSI or Risk	Change since last report	Comments
BOTCAST (Botrytis leaf blight)	0	None	
DOWNCAST (Onion downy mildew)	1 sporulation infection period		Risk is minimal
BSPCast (Stemphylium leaf blight)	No risk		
White Rot on Onions	7	+3	Low risk until CDSI reaches 28
Sclerotinia (White Mold) on Carrot	0	0	
TOMCAST (General conditions for disease)	2	0	
BREMCAST (Lettuce downy mildew)	1 sporulation infection period		Risk still minimal

Date (May, 2019)	Max temperature	Min temperature	Rain (mm)
20	17.1	7.0	0.0
21	17.5	5.6	0.0
22	15.9	3.7	0.0
23	24.9	7.9	0.4

Soil Temperature (°C): 5cm:12.3

10cm: 15.2

20 cm: 14.6

