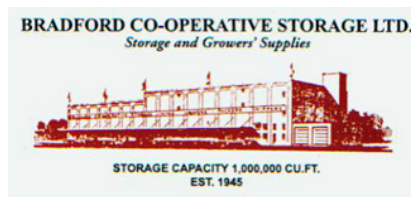




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# Muck Crops Research Station IPM 2019

Forecasting/weather information as of 21 May

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)	<b>162</b>	<b>29</b>

Insect Degree Day Models:

MODELS	CUM DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
<b>CARROT RUST FLY</b> (DD base 3)	<b>242</b>	Emergence at 329-395 DD (1 <sup>st</sup> gen)	Emergence at 1399-1711 DD (2 <sup>nd</sup> gen)	Roughly one week from emergence
<b>ONION MAGGOT</b> (DD base 4)	<b>200</b>	Emergence at 210 DD (1 <sup>st</sup> gen)	Emergence at 1025 DD (2 <sup>nd</sup> gen)	Emergence imminent
<b>CARROT WEEVIL</b> (DD base 7)	<b>92</b>	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Nearing the start of egg laying
<b>ASTER LEAFHOPPER</b> (DD base 9)	<b>44</b>	Nymphs emerge at 128 DD	Adults emerge at 390 DD	
<b>TARNISHED PLANT BUG</b> (DD base 12)	<b>9</b>	Activity can start at 40 DD		
<b>CABBAGE MAGGOT</b> (DD base 6)	<b>125</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>200</b>	Emergence at 200 DD (1 <sup>st</sup> gen)	Emergence at 600 DD (2 <sup>nd</sup> gen)	First generation started

Disease model	Cumulative DSI	Change since last report	Comments
BOTCAST (Botrytis leaf blight)	0	0	Low risk
DOWNCAST (Onion downy mildew)	No Sporulation-Infection periods	0	Low risk





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Disease model	Cumulative DSI	Change since last report	Comments
BSP Cast (Stemphylium leaf blight, adapted from a model on pears and currently being validated)	0	0	Low risk for stemphylium
White Rot on onions	4	+4	No risk to onions until CDSI is >28
Sclerotinia (White Mold) on Carrot	0	0	Low risk
TOMCAST (General conditions for disease)	2	2	Low risk
BREMCAST (Lettuce downy mildew)	No sporulation-infection periods	0	Low risk

Date (May 2019)	Max temperature	Min temperature	Rain (mm)
16	17.8	5.2	0.0
17	15.1	7.4	0.6
18	15.8	1.4	0.0
19	24.9	8.5	1.8
20	17.1	7.0	0.0

Soil Temperatures: 5cm: 14.3 C

10cm: 13.8 C

20cm: 18.42 C

