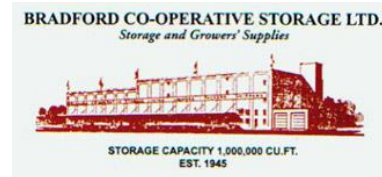




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# Ontario Crops Research Centre – Bradford (Muck Station) IPM Report 2023

Forecasting, weather and degree day information as of 27 Sept 2023

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>	<b>2056</b>	56

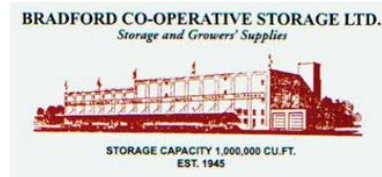
Insect Degree Day Models:

MODELS	CUMULATIVE DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
<b>CARROT RUST FLY</b> (DD base 3)	<b>2408</b>	Emergence at 329-395 DD (1 <sup>st</sup> gen)	Emergence at 1399-1711 DD (2 <sup>nd</sup> gen)	Activity decreasing
<b>ONION MAGGOT</b> (DD base 4)	<b>2230</b>	Emergence at 210 DD (1 <sup>st</sup> gen)	Emergence at 1025 DD (2 <sup>nd</sup> gen)	Activity low
<b>CARROT WEEVIL</b> (DD base 7)	<b>1719</b>	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Activity finished
<b>ASTER LEAFHOPPER</b> (DD base 9)	<b>1405</b>	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Activity low
<b>TARNISHED PLANT BUG</b> (DD base 12)	<b>961</b>	Activity can start at 40 DD		Activity low
<b>CABBAGE MAGGOT</b> (DD base 6)	<b>1884</b>	Emergence at 314 DD (1 <sup>st</sup> gen)	Emergence at 847 DD (2 <sup>nd</sup> gen)	Activity low
<b>SEEDCORN MAGGOT</b> (DD base 4)	<b>2230</b>	Emergence at 200 DD (1 <sup>st</sup> gen)	Emergence at 600 DD (2 <sup>nd</sup> gen)	Activity low





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## Disease Forecasting

Disease model	Cumulative DSI	Change since last report	Comments
Sclerotinia (White Mold) on Carrot	36	-18	Moderate risk
TOMCAST (General conditions for disease)	206	+4	Low risk
BREMCAT (Lettuce downy mildew)	Sporulation-infection periods on 5/5 days	Continued high risk	High risk

## Daily Weather

Date (Sept)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
22	27.2	6.8	0.0
23	31.4	4.8	0.0
24	28.1	2.6	0.0
25	27.9	7.0	0.0
26	20.4	9.9	0.0

Soil Temperature (°C): 5cm: 17.1

