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

Forecasting, weather and degree day information as of 13 July 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>976</b>	45

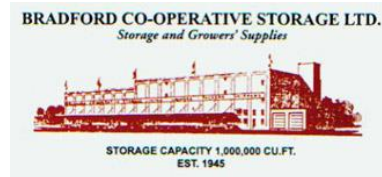
Insect Degree Day Models:

MODELS	CUMULATIVE DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
<b>CARROT RUST FLY</b> (DD base 3)	<b>1176</b>	Emergence at 329-395 DD (1 <sup>st</sup> gen)	Emergence at 1399-1711 DD (2 <sup>nd</sup> gen)	Activity low
<b>ONION MAGGOT</b> (DD base 4)	<b>1075</b>	Emergence at 210 DD (1 <sup>st</sup> gen)	Emergence at 1025 DD (2 <sup>nd</sup> gen)	2 <sup>nd</sup> generation emergence
<b>CARROT WEEVIL</b> (DD base 7)	<b>792</b>	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Activity and egg laying period has finished
<b>ASTER LEAFHOPPER</b> (DD base 9)	<b>629</b>	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Activity
<b>TARNISHED PLANT BUG</b> (DD base 12)	<b>413</b>	Activity can start at 40 DD		Activity
<b>CABBAGE MAGGOT</b> (DD base 6)	<b>880</b>	Emergence at 314 DD (1 <sup>st</sup> gen)	Emergence at 847 DD (2 <sup>nd</sup> gen)	2 <sup>nd</sup> generation emergence
<b>SEEDCORN MAGGOT</b> (DD base 4)	<b>1075</b>	Emergence at 200 DD (1 <sup>st</sup> gen)	Emergence at 600 DD (2 <sup>nd</sup> gen)	2 <sup>nd</sup> generation activity





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## Disease Forecasting

Disease model	Cumulative DSI	Change since last report	Comments
BOTCAST (Botrytis leaf blight)	55	+5	Low risk
DOWNCAST (Onion downy mildew)	No sporulation infection periods	Decreased risk	Low risk
BSPCast (Stemphylium leaf blight)	Favourable conditions on 2/3 days	Increased risk	Moderate-High risk
White Rot on Onions	0	0	Low-Moderate risk
Sclerotinia (White Mold) on Carrot	0	-	Low risk
TOMCAST (General conditions for disease)	66	+5	Moderate-High risk
BREMCAST (Lettuce downy mildew)	Sporulation-infection periods on 2/3 days	-	Moderate-High risk

## Daily Weather

Date (July)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
10	28.8	12.0	0.0
11	29.7	17.4	10.2
12	24.3	11.6	0.2

Soil Temperature (°C): 5cm: 19.9

