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# Ontario Crops Research Centre – Bradford (Muck Station) IPM Report 2024

Forecasting, weather and degree day information as of 11 July 2024

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>1025</b>	51

## Insect Degree Day Models:

MODELS	CUMULATIVE DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
<b>CARROT RUST FLY</b> (DD base 3)	<b>1220</b>	Emergence at 329-395 DD (1 <sup>st</sup> gen)	Emergence at 1399-1711 DD (2 <sup>nd</sup> gen)	Minimal activity
<b>ONION MAGGOT</b> (DD base 4)	<b>1121</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>842</b>	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Egg laying period has ended
<b>ASTER LEAFHOPPER</b> (DD base 9)	<b>670</b>	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Activity
<b>TARNISHED PLANT BUG</b> (DD base 12)	<b>433</b>	Activity can start at 40 DD		Activity
<b>CABBAGE MAGGOT</b> (DD base 6)	<b>932</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>1121</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)	155	+1	Low risk. No spores trapped
DOWNCAST (Onion downy mildew)	No sporulation-infection periods	Continued high risk	High risk. Downy mildew found and spores identified
BSPCAST (Stemphylium leaf blight)	Favourable conditions on 2/3 days	Continued high risk	High risk
White Rot on Onions	0	-	Low risk
Sclerotinia (White Mold) on Carrot	6	+6	Low risk. Canopies starting to close in
TOMCAST (General conditions for disease)	134	+9	High risk
BREMCAST (Lettuce downy mildew)	Sporulation-infection periods on 1/3 days	Continued moderate risk	Moderate risk

## Daily Weather

Date (July)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
8	31.2	15.0	0.0
9	31.4	18.8	0.0
10	20.6	17.4	0.0

Soil Temperature (°C): 5cm: 21.1

