



# Ontario Crops Research Centre – Bradford (Muck Station) IPM Report 2025

Forecasting, weather and degree day information as of 17 July 2025

Standard Growing Degree Day Model (starting 1 April):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
Growing degree days (DD base 5)	1083	59

Insect Degree Day Models:

MODELS	CUMULATIVE DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
<b>CARROT RUST FLY</b> (DD base 3)	<b>1281</b>	Emergence at 329-395 DD (1 <sup>st</sup> gen)	Emergence at 1399-1711 DD (2 <sup>nd</sup> gen)	Some 2 <sup>nd</sup> gen activity starting
<b>ONION MAGGOT</b> (DD base 4)	<b>1181</b>	Emergence at 210 DD (1 <sup>st</sup> gen)	Emergence at 1025 DD (2 <sup>nd</sup> gen)	2 <sup>nd</sup> gen emergence
<b>CARROT WEEVIL</b> (DD base 7)	<b>893</b>	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Egg laying period complete
<b>ASTER LEAFHOPPER</b> (DD base 9)	<b>718</b>	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Activity
<b>TARNISHED PLANT BUG</b> (DD base 12)	<b>497</b>	Activity can start at 40 DD		Activity
<b>CABBAGE MAGGOT</b> (DD base 6)	<b>986</b>	Emergence at 314 DD (1 <sup>st</sup> gen)	Emergence at 847 DD (2 <sup>nd</sup> gen)	2 <sup>nd</sup> gen emergence
<b>SEEDCORN MAGGOT</b> (DD base 4)	<b>1181</b>	Emergence at 200 DD (1 <sup>st</sup> gen)	Emergence at 600 DD (2 <sup>nd</sup> gen)	Activity



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## Disease Forecasting

Disease model	Cumulative DSI	Change since last report	Comments
BOTCAST (Botrytis leaf blight)	74	0	Low risk
DOWNCAST (Onion downy mildew)	No sporulation-infection periods	-	Low risk, too hot
BSPCAST (Stemphylium leaf blight)	Favourable conditions on 2/3 days	Same	Moderate to high risk
White Rot on Onions	0	-	Moderate risk, has been found
Sclerotinia (White Mold) on Carrot	0	-	Low risk
TOMCAST (General conditions for disease)	75	+6	High risk
BREMCAS (Lettuce downy mildew)	Sporulation-infection periods on 2/3 days	Same	Moderate risk

## Daily Weather

Date (July)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
14	30.9	16.3	0.0
15	33.2	15.4	0.0
16	34.2	16.1	0.0

Soil Temperature (°C): 5cm: 26.7



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