



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

Forecasting, weather and degree day information as of 1 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)	792	82

## Insect Degree Day Models:

MODELS	CUMULATIVE DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
<b>CARROT RUST FLY</b> (DD base 3)	<b>957</b>	Emergence at 329-395 DD (1 <sup>st</sup> gen)	Emergence at 1399-1711 DD (2 <sup>nd</sup> gen)	Low activity
<b>ONION MAGGOT</b> (DD base 4)	<b>874</b>	Emergence at 210 DD (1 <sup>st</sup> gen)	Emergence at 1025 DD (2 <sup>nd</sup> gen)	1 <sup>st</sup> gen. activity declining
<b>CARROT WEEVIL</b> (DD base 7)	<b>634</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>491</b>	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Activity
<b>TARNISHED PLANT BUG</b> (DD base 12)	<b>317</b>	Activity can start at 40 DD		Activity
<b>CABBAGE MAGGOT</b> (DD base 6)	<b>710</b>	Emergence at 314 DD (1 <sup>st</sup> gen)	Emergence at 847 DD (2 <sup>nd</sup> gen)	Activity
<b>SEEDCORN MAGGOT</b> (DD base 4)	<b>874</b>	Emergence at 200 DD (1 <sup>st</sup> gen)	Emergence at 600 DD (2 <sup>nd</sup> gen)	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)	66	+3	Low risk
DOWNCAST (Onion downy mildew)	No sporulation-infection periods	-	Low risk
BSPCAST (Stemphylium leaf blight)	Favourable conditions on 4/5 days	Increased	Moderate to high risk
White Rot on Onions	0	-	Low risk
Sclerotinia (White Mold) on Carrot	0	-	Low risk
TOMCAST (General conditions for disease)	45	+10	High risk
BREMCAST (Lettuce downy mildew)	Sporulation-infection periods on 3/5 days	Increased	Moderate risk

## Daily Weather

Date (June)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
26	22.2	15.5	5.8
27	26.6	16.7	6.0
28	25.0	12.9	1.8
29	29.9	10.0	0.0
30	31.1	15.3	7.6

Soil Temperature (°C): 5cm: 23.6



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