



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

Forecasting, weather and degree day information as of 28 August 2025

Standard Growing Degree Day Model (starting 1 April):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
Growing degree days (DD base 5)	1728	30

Insect Degree Day Models:

MODELS	CUMULATIVE DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
<b>CARROT RUST FLY</b> (DD base 3)	<b>2010</b>	Emergence at 329-395 DD (1 <sup>st</sup> gen)	Emergence at 1399-1711 DD (2 <sup>nd</sup> gen)	Some activity
<b>ONION MAGGOT</b> (DD base 4)	<b>1868</b>	Emergence at 210 DD (1 <sup>st</sup> gen)	Emergence at 1025 DD (2 <sup>nd</sup> gen)	Vey low activity
<b>CARROT WEEVIL</b> (DD base 7)	<b>1454</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>1195</b>	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Activity
<b>TARNISHED PLANT BUG</b> (DD base 12)	<b>848</b>	Activity can start at 40 DD		Activity
<b>CABBAGE MAGGOT</b> (DD base 6)	<b>1589</b>	Emergence at 314 DD (1 <sup>st</sup> gen)	Emergence at 847 DD (2 <sup>nd</sup> gen)	Some activity
<b>SEEDCORN MAGGOT</b> (DD base 4)	<b>1868</b>	Emergence at 200 DD (1 <sup>st</sup> gen)	Emergence at 600 DD (2 <sup>nd</sup> gen)	Some activity



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## Disease Forecasting

Disease model	Cumulative DSI	Change since last report	Comments
BOTCAST (Botrytis leaf blight)	105	+2	Low risk
DOWNCAST (Onion downy mildew)	No sporulation-infection periods	Decreased risk	Low risk and most onions are lodging or ready for harvest
BSPCAST (Stemphylium leaf blight)	Conditions are not favourable	Decreased risk	Low risk and most onions are lodging or ready for harvest
White Rot on Onions	10	+3	Low to moderate risk, has been found
Sclerotinia (White Mold) on Carrot	0	Slight increase	Low to moderate risk. Canopies closed and conditions are getting more suitable for the disease
TOMCAST (General conditions for disease)	143	0	Low to moderate risk
BREMCAST (Lettuce downy mildew)	Sporulation-infection periods on 3/3 days	Same	High risk

## Daily Weather

Date (August)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
25	19.3	10.4	2.4
26	20.4	9.7	0.0
27	22.7	8.2	0.0

Soil Temperature (°C): 5cm: 17.1



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