



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

Forecasting, weather and degree day information as of 23 June 2025

Standard Growing Degree Day Model (starting 1 April):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
Growing degree days (DD base 5)	648	128

## Insect Degree Day Models:

MODELS	CUMULATIVE DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
<b>CARROT RUST FLY</b> (DD base 3)	<b>798</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>722</b>	Emergence at 210 DD (1 <sup>st</sup> gen)	Emergence at 1025 DD (2 <sup>nd</sup> gen)	Activity
<b>CARROT WEEVIL</b> (DD base 7)	<b>506</b>	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Egg laying period finishing up
<b>ASTER LEAFHOPPER</b> (DD base 9)	<b>379</b>	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Adult emergence
<b>TARNISHED PLANT BUG</b> (DD base 12)	<b>230</b>	Activity can start at 40 DD		Activity
<b>CABBAGE MAGGOT</b> (DD base 6)	<b>575</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>722</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)	63	+6	Low risk
DOWNCAST (Onion downy mildew)	No sporulation-infection periods	-	Low risk
BSPCAST (Stemphylium leaf blight)	Favourable conditions on 3/7 days	Increase	Moderate risk
White Rot on Onions	0	-54	Low risk
Sclerotinia (White Mold) on Carrot	0	-	Low risk
TOMCAST (General conditions for disease)	31	+13	High risk
BREMCAST (Lettuce downy mildew)	Sporulation-infection periods on 4/7 days	Decreased	Moderate risk

## Daily Weather

Date (June)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
16	26.9	8.5	0.0
17	28.2	12.2	0.0
18	27.9	19.6	0.0
19	24.1	15.7	0.2
20	27.0	13.7	0.0
21	26.8	14.4	0.6
22	34.8	25.0	0.0

Soil Temperature (°C): 5cm: 25.5



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