



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

Forecasting, weather and degree day information as of 25 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)	1698	57

Insect Degree Day Models:

MODELS	CUMULATIVE DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
<b>CARROT RUST FLY</b> (DD base 3)	<b>1973</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>1835</b>	Emergence at 210 DD (1 <sup>st</sup> gen)	Emergence at 1025 DD (2 <sup>nd</sup> gen)	Slow activity
<b>CARROT WEEVIL</b> (DD base 7)	<b>1430</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>1177</b>	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Activity
<b>TARNISHED PLANT BUG</b> (DD base 12)	<b>839</b>	Activity can start at 40 DD		Activity
<b>CABBAGE MAGGOT</b> (DD base 6)	<b>1562</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>1835</b>	Emergence at 200 DD (1 <sup>st</sup> gen)	Emergence at 600 DD (2 <sup>nd</sup> gen)	Some activity



ENZA ZADEN





## Disease Forecasting

Disease model	Cumulative DSI	Change since last report	Comments
BOTCAST (Botrytis leaf blight)	103	+6	Low risk
DOWNCAST (Onion downy mildew)	Sporulation-infection periods on 2/4 days	Slight increase	Moderate risk, but most onions are lodging or ready for harvest
BSPCAST (Stemphylium leaf blight)	Favourable conditions on 1/4 days	Decreased risk	Moderate risk, but most onions are lodging or ready for harvest
White Rot on Onions	7	+7	Low to moderate risk, has been found
Sclerotinia (White Mold) on Carrot	0	-	Low risk. Canopies closed and has been dry, but may increase soon
TOMCAST (General conditions for disease)	143	+6	High risk
BREMCAST (Lettuce downy mildew)	Sporulation-infection periods on 4/4 days	Increased	High risk

## Daily Weather

Date (August)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
21	25.3	12.7	0.0
22	28.3	12.1	0.0
23	24.4	15.4	0.0
24	25.4	13.4	0.0

Soil Temperature (°C): 5cm: 18.9



ENZA ZADEN



NORSECO

Ontario

