



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

Forecasting, weather and degree day information as of 14 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)	1547	56

Insect Degree Day Models:

MODELS	CUMULATIVE DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
CARROT RUST FLY (DD base 3)	1801	Emergence at 329-395 DD (1 st gen)	Emergence at 1399-1711 DD (2 nd gen)	2 nd gen activity
ONION MAGGOT (DD base 4)	1673	Emergence at 210 DD (1 st gen)	Emergence at 1025 DD (2 nd gen)	2 nd gen activity slowing down
CARROT WEEVIL (DD base 7)	1301	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Egg laying period complete
ASTER LEAFHOPPER (DD base 9)	1070	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Activity
TARNISHED PLANT BUG (DD base 12)	765	Activity can start at 40 DD		Activity
CABBAGE MAGGOT (DD base 6)	1422	Emergence at 314 DD (1 st gen)	Emergence at 847 DD (2 nd gen)	Some activity
SEEDCORN MAGGOT (DD base 4)	1673	Emergence at 200 DD (1 st gen)	Emergence at 600 DD (2 nd gen)	Activity



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Disease Forecasting

Disease model	Cumulative DSI	Change since last report	Comments
BOTCAST (Botrytis leaf blight)	92	0	Low risk
DOWNCAST (Onion downy mildew)	No sporulation-infection periods	Same	Low risk, too hot
BSPCAST (Stemphylium leaf blight)	Favourable conditions on 3/3 days	Same	High risk. Lesions are sporulating as well.
White Rot on Onions	0	0	Low to moderate risk, has been found
Sclerotinia (White Mold) on Carrot	0	-	Low risk. Canopies starting to close in but too dry
TOMCAST (General conditions for disease)	127	+6	High risk
BREMCAS (Lettuce downy mildew)	Sporulation-infection periods on 1/3 days	Same	Low to moderate risk

Daily Weather

Date (August)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
11	33.7	16.6	0.0
12	34.4	20.2	8.6
13	30.2	15.7	0.6

Soil Temperature (°C): 5cm: 22.4



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