



Ontario Crops Research Centre – Bradford (Muck Station) IPM Forecasting 2026

Forecasting, weather and degree day information as of August 27

Standard Growing Degree Day Model (starting 1 April):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
Growing degree days (DD base 5)	1680	46

Insect Degree Day Models:

MODELS	CUMULATIVE DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
CARROT RUST FLY (DD base 3)	1952	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)	1814	Emergence at 210 DD (1 st gen)	Emergence at 1025 DD (2 nd gen)	Activity decreasing
CARROT WEEVIL (DD base 7)	1420	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	End of egg laying period
ASTER LEAFHOPPER (DD base 9)	1173	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Activity
TARNISHED PLANT BUG (DD base 12)	830	Activity can start at 40 DD		Activity
CABBAGE MAGGOT (DD base 6)	1548	Emergence at 314 DD (1 st gen)	Emergence at 847 DD (2 nd gen)	Activity decreasing
SEEDCORN MAGGOT (DD base 4)	1814	Emergence at 200 DD (1 st gen)	Emergence at 600 DD (2 nd gen)	Activity decreasing



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Disease Forecasting:

Disease model	Cumulative DSI	Change since last report	Comments
BOTCAST (Botrytis leaf blight)	129	+6	Low risk
DOWNCAST (Onion downy mildew)	Sporulation-infection periods on 1/3 days	Decreased	Moderate risk, most onions are lodging now
BSPCAST (Stemphylium leaf blight)	Conditions have been favourable on 3/3 days	Decreased	Moderate risk, most onions are lodging now
White Rot on Onions	7	+3	Low risk
Sclerotinia (White Mold) on Carrot	18	+6	Moderate risk. White mold has been found
TOMCAST (General conditions for disease)	178	+7	High risk
BREMCAS (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)
24	21.7	12.1	0.2
25	23.8	15.5	0.2
26	26.0	10.1	0.0

Soil Temperature (°C): 5cm: 20.8



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