



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

Forecasting, weather and degree day information as of August 20

Standard Growing Degree Day Model (starting 1 April):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
Growing degree days (DD base 5)	1583	40

Insect Degree Day Models:

MODELS	CUMULATIVE DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
CARROT RUST FLY (DD base 3)	1841	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)	1710	Emergence at 210 DD (1 st gen)	Emergence at 1025 DD (2 nd gen)	Activity decreasing
CARROT WEEVIL (DD base 7)	1337	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	End of egg laying period
ASTER LEAFHOPPER (DD base 9)	1104	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Activity
TARNISHED PLANT BUG (DD base 12)	783	Activity can start at 40 DD		Activity
CABBAGE MAGGOT (DD base 6)	1458	Emergence at 314 DD (1 st gen)	Emergence at 847 DD (2 nd gen)	Activity decreasing
SEEDCORN MAGGOT (DD base 4)	1710	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)	115	+6	Low risk
DOWNCAST (Onion downy mildew)	Sporulation-infection periods on 1/3 days	Same	High risk, sporulation infection periods and sporangia caught in spore traps
BSPCAST (Stemphylium leaf blight)	Conditions have been favourable on 3/3 days	Same	High risk. Stemphylium symptoms developing further and lots of conidia being caught in spore traps
White Rot on Onions	0	0	Low risk
Sclerotinia (White Mold) on Carrot	10	+3	Moderate risk. White mold has been found
TOMCAST (General conditions for disease)	162	+7	High risk
BREMCAST (Lettuce downy mildew)	Sporulation-infection periods on 2/3 days	Same	High risk

Daily Weather

Date (August)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
17	25.3	14.9	0.0
18	27.3	11.7	0.0
19	25.3	14.3	2.2

Soil Temperature (°C): 5cm: 21.3



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