



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

Forecasting, weather and degree day information as of July 23

Standard Growing Degree Day Model (starting 1 April):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
Growing degree days (DD base 5)	1140	101

Insect Degree Day Models:

MODELS	CUMULATIVE DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
CARROT RUST FLY (DD base 3)	1342	Emergence at 329-395 DD (1 st gen)	Emergence at 1399-1711 DD (2 nd gen)	2 nd generation emergence
ONION MAGGOT (DD base 4)	1239	Emergence at 210 DD (1 st gen)	Emergence at 1025 DD (2 nd gen)	2 nd gen activity
CARROT WEEVIL (DD base 7)	949	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	End of egg laying period
ASTER LEAFHOPPER (DD base 9)	773	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Activity
TARNISHED PLANT BUG (DD base 12)	535	Activity can start at 40 DD		Activity
CABBAGE MAGGOT (DD base 6)	1043	Emergence at 314 DD (1 st gen)	Emergence at 847 DD (2 nd gen)	Activity
SEEDCORN MAGGOT (DD base 4)	1239	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)	75	+6	Low risk
DOWNCAST (Onion downy mildew)	No sporulation-infection periods	-	Low risk
BSPCAST (Stemphylium leaf blight)	Conditions have been favourable on 3/7 days	Same	Moderate risk. Stemphylium symptoms developing further.
White Rot on Onions	4	+4	Low risk
Sclerotinia (White Mold) on Carrot	0	-	Low risk
TOMCAST (General conditions for disease)	100	+6	Moderate risk
BREMCAST (Lettuce downy mildew)	Sporulation-infection periods on 5/7 days	Increased	Moderate-high risk.

Daily Weather

Date (July)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
16	28.3	15.0	0.0
17	29.0	14.5	0.0
18	27.3	19.4	16.6
19	23.8	13.1	0.0
20	26.3	8.7	0.0
21	24.3	18.8	15.4
22	21.5	13.6	0.0

Soil Temperature (°C): 5cm: 18.3



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