



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

Forecasting, weather and degree day information as of July 27

Standard Growing Degree Day Model (starting 1 April):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
Growing degree days (DD base 5)	1201	61

Insect Degree Day Models:

MODELS	CUMULATIVE DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
CARROT RUST FLY (DD base 3)	1411	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)	1304	Emergence at 210 DD (1 st gen)	Emergence at 1025 DD (2 nd gen)	2 nd gen activity
CARROT WEEVIL (DD base 7)	1002	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	End of egg laying period
ASTER LEAFHOPPER (DD base 9)	818	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Activity
TARNISHED PLANT BUG (DD base 12)	568	Activity can start at 40 DD		Activity
CABBAGE MAGGOT (DD base 6)	1100	Emergence at 314 DD (1 st gen)	Emergence at 847 DD (2 nd gen)	Activity
SEEDCORN MAGGOT (DD base 4)	1304	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)	81	+6	Low risk
DOWNCAST (Onion downy mildew)	No sporulation-infection periods	Slight risk increase	Moderate risk, conditions somewhat suitable for infection.
BSPCAST (Stemphylium leaf blight)	Conditions have been favourable on 1/4 days	Same	Moderate risk. Stemphylium symptoms developing further.
White Rot on Onions	8	+4	Low risk
Sclerotinia (White Mold) on Carrot	0	-	Low risk
TOMCAST (General conditions for disease)	107	+7	High risk
BREMCAST (Lettuce downy mildew)	Sporulation-infection periods on 4/4 days	Increased	High risk.

Daily Weather

Date (July)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
23	25.2	9.0	0.0
24	26.4	10.1	0.0
25	27.8	12.4	0.0
26	29.0	13.2	17.6

Soil Temperature (°C): 5cm: 20.0



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