



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

Forecasting, weather and degree day information as of July 13

Standard Growing Degree Day Model (starting 1 April):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
Growing degree days (DD base 5)	977	64

Insect Degree Day Models:

MODELS	CUMULATIVE DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
CARROT RUST FLY (DD base 3)	1159	Emergence at 329-395 DD (1 st gen)	Emergence at 1399-1711 DD (2 nd gen)	1 st gen activity decreasing
ONION MAGGOT (DD base 4)	1067	Emergence at 210 DD (1 st gen)	Emergence at 1025 DD (2 nd gen)	2 nd gen emergence expected
CARROT WEEVIL (DD base 7)	807	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	End of egg laying period
ASTER LEAFHOPPER (DD base 9)	650	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Activity
TARNISHED PLANT BUG (DD base 12)	443	Activity can start at 40 DD		Activity
CABBAGE MAGGOT (DD base 6)	891	Emergence at 314 DD (1 st gen)	Emergence at 847 DD (2 nd gen)	Activity
SEEDCORN MAGGOT (DD base 4)	1067	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)	69	+4	Low risk
DOWNCAST (Onion downy mildew)	No sporulation-infection periods	-	Low risk
BSPCAST (Stemphylium leaf blight)	Conditions have been favourable on 4/4 days	Same	High risk. Stemphylium symptoms found in more fields.
White Rot on Onions	0	0	Low risk
Sclerotinia (White Mold) on Carrot	0	-	Low risk
TOMCAST (General conditions for disease)	87	+8	High risk
BREMCAST (Lettuce downy mildew)	Sporulation-infection periods on 4/4 days	Same	Moderate-high risk. Hot weather the next couple days.

Daily Weather

Date (July)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
9	25.9	17.8	7.2
10	29.3	17.2	0.0
11	28.2	15.4	0.0
12	29.0	12.5	0.0

Soil Temperature over the last 24 hours (°C): 5cm: 22.6



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