



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

Forecasting, weather and degree day information as of July 2

Standard Growing Degree Day Model (starting 1 April):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
Growing degree days (DD base 5)	784	68

Insect Degree Day Models:

MODELS	CUMULATIVE DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
CARROT RUST FLY (DD base 3)	944	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)	863	Emergence at 210 DD (1 st gen)	Emergence at 1025 DD (2 nd gen)	1 st gen activity decreasing
CARROT WEEVIL (DD base 7)	636	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Activity. End of egg laying period.
ASTER LEAFHOPPER (DD base 9)	501	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Activity
TARNISHED PLANT BUG (DD base 12)	327	Activity can start at 40 DD		Activity
CABBAGE MAGGOT (DD base 6)	708	Emergence at 314 DD (1 st gen)	Emergence at 847 DD (2 nd gen)	Activity
SEEDCORN MAGGOT (DD base 4)	863	Emergence at 200 DD (1 st gen)	Emergence at 600 DD (2 nd gen)	2 nd gen activity



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Disease Forecasting:

Disease model	Cumulative DSI	Change since last report	Comments
BOTCAST (Botrytis leaf blight)	61	+1	Low risk
DOWNCAST (Onion downy mildew)	No sporulation-infection periods	-	Low risk
BSPCAST (Stemphylium leaf blight)	Conditions have been favourable on 2/3 days	Slight decrease	Moderate to high risk. Stemphylium found in seeded and transplant onions.
White Rot on Onions	1	0	Moderate risk
Sclerotinia (White Mold) on Carrot	0	-	Low risk
TOMCAST (General conditions for disease)	64	+7	High risk
BREMCAS (Lettuce downy mildew)	Sporulation-infection periods on 1/3 days	Decrease	Moderate risk, too hot.

Daily Weather

Date (June/July)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
29	28.8	10.8	0.0
30	34.9	20.3	3.0
1	35.5	23.5	1.6

Soil Temperature over the last 24 hours (°C): 5cm: 26.2



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