



Ontario Crops Research Centre – Bradford (Muck Station) IPM Report 2025

Forecasting, weather and degree day information as of 2 June 2025

Standard Growing Degree Day Model (starting 1 April):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
Growing degree days (DD base 5)	340	33

Insect Degree Day Models:

MODELS	CUMULATIVE DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
CARROT RUST FLY (DD base 3)	448	Emergence at 329-395 DD (1 st gen)	Emergence at 1399-1711 DD (2 nd gen)	Activity
ONION MAGGOT (DD base 4)	393	Emergence at 210 DD (1 st gen)	Emergence at 1025 DD (2 nd gen)	Activity
CARROT WEEVIL (DD base 7)	240	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Activity and egg laying
ASTER LEAFHOPPER (DD base 9)	155	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Activity
TARNISHED PLANT BUG (DD base 12)	69	Activity can start at 40 DD		Activity expected
CABBAGE MAGGOT (DD base 6)	288	Emergence at 314 DD (1 st gen)	Emergence at 847 DD (2 nd gen)	Awaiting expected soon
SEEDCORN MAGGOT (DD base 4)	393	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)	48	+6	Low risk
DOWNCAST (Onion downy mildew)	No sporulation-infection periods	-	Low risk
BSPCAST (Stemphylium leaf blight)	Conditions have not been favourable	-	Low risk
White Rot on Onions	40	+4	Moderate risk
Sclerotinia (White Mold) on Carrot	0	-	Low risk
TOMCAST (General conditions for disease)	10	+2	Low risk
BREMCAST (Lettuce downy mildew)	Sporulation-infection periods on 4/4 days	Same	Moderate risk

Daily Weather

Date (May/June)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
29	17.7	12.2	5.3
30	23.8	10.9	0.0
31	12.9	7.5	0.0
1	16.1	5.7	0.0

Soil Temperature (°C): 5cm: 11.9



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