



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

Forecasting, weather and degree day information as of 5 August 2025

Standard Growing Degree Day Model (starting 1 April):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
Growing degree days (DD base 5)	1373	66

Insect Degree Day Models:

MODELS	CUMULATIVE DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
CARROT RUST FLY (DD base 3)	1609	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)	1490	Emergence at 210 DD (1 st gen)	Emergence at 1025 DD (2 nd gen)	2 nd gen activity
CARROT WEEVIL (DD base 7)	1145	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Egg laying period complete
ASTER LEAFHOPPER (DD base 9)	932	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Activity
TARNISHED PLANT BUG (DD base 12)	654	Activity can start at 40 DD		Activity
CABBAGE MAGGOT (DD base 6)	1257	Emergence at 314 DD (1 st gen)	Emergence at 847 DD (2 nd gen)	Some activity
SEEDCORN MAGGOT (DD base 4)	1490	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)	88	+8	Low risk
DOWNCAST (Onion downy mildew)	Sporulation-infection period on 1/5 days	Same	Low risk, it will be too hot
BSPCAST (Stemphylium leaf blight)	Favourable conditions on 2/5 days	Same	Moderate to high risk. Lesions are starting to sporulate
White Rot on Onions	4	+4	Low to moderate risk, has been found
Sclerotinia (White Mold) on Carrot	0	-4	Low risk. Canopies starting to close in.
TOMCAST (General conditions for disease)	107	+6	Moderate to high risk
BREMCAST (Lettuce downy mildew)	Sporulation-infection periods on 4/5 days	Increased	High risk

Daily Weather

Date (July/August)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
31	24.2	11.1	0.0
1	23.8	8.9	0.0
2	26.2	8.4	0.0
3	28.1	11.7	0.0
4	30.8	11.5	0.0

Soil Temperature (°C): 5cm: 20.7



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