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

Forecasting, weather and degree day information as of 16 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)	**520**	49

Insect Degree Day Models:

MODELS	CUMULATIVE DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
CARROT RUST FLY (DD base 3)	**655**	Emergence at 329-395 DD (1st gen)	Emergence at 1399-1711 DD (2nd gen)	Activity
ONION MAGGOT (DD base 4)	**587**	Emergence at 210 DD (1st gen)	Emergence at 1025 DD (2nd gen)	Activity
CARROT WEEVIL (DD base 7)	**392**	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Activity and egg laying
ASTER LEAFHOPPER (DD base 9)	**279**	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Activity
TARNISHED PLANT BUG (DD base 12)	**151**	Activity can start at 40 DD		Activity
CABBAGE MAGGOT (DD base 6)	**454**	Emergence at 314 DD (1st gen)	Emergence at 847 DD (2nd gen)	Activity
SEEDCORN MAGGOT (DD base 4)	**587**	Emergence at 200 DD (1st gen)	Emergence at 600 DD (2nd gen)	Approaching 2nd gen. emergence

Disease Forecasting

Disease model	Cumulative DSI	Change since last report	Comments
BOTCAST (Botrytis leaf blight)	57	+1	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	54	+4	Moderate risk
Sclerotinia (White Mold) on Carrot	0	-	Low risk
TOMCAST (General conditions for disease)	18	0	Moderate risk
BREMCAST (Lettuce downy mildew)	Sporulation-infection periods on 4/4 days	Same	High risk

Daily Weather

Date (June)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
12	23.1	11.6	0.0
13	20.2	11.1	0.0
14	23.9	10.0	0.0
15	25.8	9.7	0.0

Soil Temperature (°C): 5cm: 20.1