



IMPROVE LIFE.



Ontario Crops Research Centre – Bradford (Muck Station) IPM Report 2024

Forecasting, weather and degree day information as of 8 July 2024

Standard Growing Degree Day Model (starting 1 April):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
Growing degree days (DD base 5)	974	70

Insect Degree Day Models:

MODELS	CUMULATIVE DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
CARROT RUST FLY (DD base 3)	1163	Emergence at 329-395 DD (1 st gen)	Emergence at 1399-1711 DD (2 nd gen)	Minimal activity
ONION MAGGOT (DD base 4)	1067	Emergence at 210 DD (1 st gen)	Emergence at 1025 DD (2 nd gen)	2 nd generation emergence expected
CARROT WEEVIL (DD base 7)	798	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Egg laying period has ended
ASTER LEAFHOPPER (DD base 9)	632	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Activity
TARNISHED PLANT BUG (DD base 12)	403	Activity can start at 40 DD		Activity
CABBAGE MAGGOT (DD base 6)	884	Emergence at 314 DD (1 st gen)	Emergence at 847 DD (2 nd gen)	2 nd generation emergence expected
SEEDCORN MAGGOT (DD base 4)	1067	Emergence at 200 DD (1 st gen)	Emergence at 600 DD (2 nd gen)	2 nd generation activity





IMPROVE LIFE.



Disease Forecasting

Disease model	Cumulative DSI	Change since last report	Comments
BOTCAST (Botrytis leaf blight)	154	-	Low risk. No spores trapped.
DOWNCAST (Onion downy mildew)	Sporulation-infection periods on 2/4 days	Increase risk	High risk
BSPCAST (Stemphylium leaf blight)	Favourable conditions on 4/4 days	Increased risk	High risk
White Rot on Onions	0	-	Low risk
Sclerotinia (White Mold) on Carrot	0	-	Low risk
TOMCAST (General conditions for disease)	126	+20	High risk
BREMCAST (Lettuce downy mildew)	Sporulation-infection periods on 1/4 days	Increased risk	Moderate risk

Daily Weather

Date (July)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
4	30.55	16.22	0
5	28.89	17.61	0.4
6	27.53	16.37	0
7	29.11	13.76	0

Soil Temperature (°C): 5cm: 22.2

