



IMPROVE LIFE.



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

Forecasting, weather and degree day information as of 29 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)	1307	59

Insect Degree Day Models:

MODELS	CUMULATIVE DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
CARROT RUST FLY (DD base 3)	1539	Emergence at 329-395 DD (1 st gen)	Emergence at 1399-1711 DD (2 nd gen)	2 nd generation activity
ONION MAGGOT (DD base 4)	1421	Emergence at 210 DD (1 st gen)	Emergence at 1025 DD (2 nd gen)	2 nd generation activity
CARROT WEEVIL (DD base 7)	1089	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Egg laying period has ended
ASTER LEAFHOPPER (DD base 9)	881	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Activity
TARNISHED PLANT BUG (DD base 12)	590	Activity can start at 40 DD		Activity
CABBAGE MAGGOT (DD base 6)	1196	Emergence at 314 DD (1 st gen)	Emergence at 847 DD (2 nd gen)	2 nd generation activity
SEEDCORN MAGGOT (DD base 4)	1421	Emergence at 200 DD (1 st gen)	Emergence at 600 DD (2 nd gen)	2 nd generation activity





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Disease Forecasting

Disease model	Cumulative DSI	Change since last report	Comments
BOTCAST (Botrytis leaf blight)	203	+6	Low risk. No spores trapped.
DOWNCAST (Onion downy mildew)	Sporulation-infection periods on 0/4 days	Moderate-High risk	Moderate-High risk. Downy mildew found and spores identified but conditions are not very favourable for development.
BSPCAST (Stemphylium leaf blight)	Favourable conditions on 0/4 days	Decreased risk	Moderate risk
White Rot on Onions	3	+3	Low risk
Sclerotinia (White Mold) on Carrot	0	-6	Low risk. Canopies starting to close in.
TOMCAST (General conditions for disease)	173	+5	Moderate risk
BREMCAST (Lettuce downy mildew)	Sporulation-infection periods on 4/4 days	Risk maintained	High risk

Daily Weather

Date (July)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
25	23.5	11.6	0.0
26	27.8	10.9	0.0
27	29.0	11.2	0.0
28	30.7	11.1	0.0

Soil Temperature (°C): 5cm: 21.5

