



IMPROVE LIFE.



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

Forecasting, weather and degree day information as of 17 June 2024

Standard Growing Degree Day Model (starting 1 April):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
Growing degree days (DD base 5)	629	53

Insect Degree Day Models:

MODELS	CUMULATIVE DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
CARROT RUST FLY (DD base 3)	776	Emergence at 329-395 DD (1 st gen)	Emergence at 1399-1711 DD (2 nd gen)	Activity
ONION MAGGOT (DD base 4)	700	Emergence at 210 DD (1 st gen)	Emergence at 1025 DD (2 nd gen)	Activity
CARROT WEEVIL (DD base 7)	494	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Weevils are around the end of their egg laying period
ASTER LEAFHOPPER (DD base 9)	370	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Nymph activity. Adult emergence soon
TARNISHED PLANT BUG (DD base 12)	205	Activity can start at 40 DD		Activity
CABBAGE MAGGOT (DD base 6)	559	Emergence at 314 DD (1 st gen)	Emergence at 847 DD (2 nd gen)	Activity
SEEDCORN MAGGOT (DD base 4)	700	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)	124	+10	Low risk. No spores trapped.
DOWNCAST (Onion downy mildew)	No sporulation-infection periods	-	Low risk
BSPCAST (Stemphylium leaf blight)	Favourable conditions on 1/4 days	Risk maintained	Moderate risk
White Rot on Onions	50	+5	High risk
Sclerotinia (White Mold) on Carrot	0	-	Low risk
TOMCAST (General conditions for disease)	77	+13	High risk
BREMCAST (Lettuce downy mildew)	Sporulation-infection periods on 4/4 days	Risk maintained	High risk

Daily Weather

Date (June)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
13	31.1	16.6	6.2
14	23.3	12.1	0.0
15	21.9	9.3	0.0
16	24.6	7.0	0.0

Soil Temperature (°C): 5cm: 17.2

