



IMPROVE LIFE.



Ontario Crops Research Centre – Bradford (Muck Station) IPM Report 2023

Forecasting, weather and degree day information as of 10 July 2023

Standard Growing Degree Day Model (starting 1 April):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
Growing degree days (DD base 5)	931	59

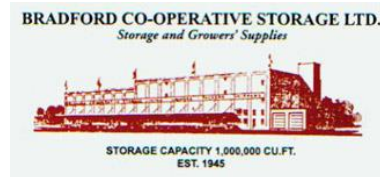
Insect Degree Day Models:

MODELS	CUMULATIVE DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
CARROT RUST FLY (DD base 3)	1125	Emergence at 329-395 DD (1 st gen)	Emergence at 1399-1711 DD (2 nd gen)	Activity low
ONION MAGGOT (DD base 4)	1027	Emergence at 210 DD (1 st gen)	Emergence at 1025 DD (2 nd gen)	2 nd generation emergence expected
CARROT WEEVIL (DD base 7)	753	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Egg laying period complete. Activity decreasing
ASTER LEAFHOPPER (DD base 9)	596	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Activity increasing
TARNISHED PLANT BUG (DD base 12)	389	Activity can start at 40 DD		Activity
CABBAGE MAGGOT (DD base 6)	838	Emergence at 314 DD (1 st gen)	Emergence at 847 DD (2 nd gen)	2 nd generation emergence soon
SEEDCORN MAGGOT (DD base 4)	1027	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)	50	+2	Low risk
DOWNCAST (Onion downy mildew)	Sporulation infection period on 2/4 days	Increased risk	Moderate risk
BSPCast (Stemphylium leaf blight)	Favourable conditions on 2/4 days	Decreased risk	Moderate risk
White Rot on Onions	0	0	Low-Moderate risk
Sclerotinia (White Mold) on Carrot	0	-	Low risk
TOMCAST (General conditions for disease)	61	+7	Moderate-High risk
BREMCAST (Lettuce downy mildew)	Sporulation-infection periods on 3/4 days	Increased risk	Moderate-High risk

Daily Weather

Date (July)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
6	31.4	16.7	15.8
7	25.7	16.8	0.0
8	25.0	10.9	1.6
9	25.4	15.0	0.0

Soil Temperature (°C): 5cm: 18.55

