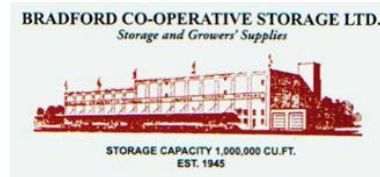




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Ontario Crops Research Centre – Bradford (Muck Station) IPM Report 2023

Forecasting, weather and degree day information as of 20 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)	1083	45

Insect Degree Day Models:

MODELS	CUMULATIVE DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
CARROT RUST FLY (DD base 3)	1297	Emergence at 329-395 DD (1 st gen)	Emergence at 1399-1711 DD (2 nd gen)	2 nd generation emergence soon
ONION MAGGOT (DD base 4)	1189	Emergence at 210 DD (1 st gen)	Emergence at 1025 DD (2 nd gen)	2 nd generation emergence
CARROT WEEVIL (DD base 7)	885	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Activity and egg laying period has finished
ASTER LEAFHOPPER (DD base 9)	708	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Activity
TARNISHED PLANT BUG (DD base 12)	471	Activity can start at 40 DD		Activity
CABBAGE MAGGOT (DD base 6)	980	Emergence at 314 DD (1 st gen)	Emergence at 847 DD (2 nd gen)	2 nd generation emergence
SEEDCORN MAGGOT (DD base 4)	1189	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)	69	+6	Low risk
DOWNCAST (Onion downy mildew)	No sporulation infection periods.	Increased risk	High risk
BSPCast (Stemphylium leaf blight)	Favourable conditions on 3/3 days	Increased risk	High risk
White Rot on Onions	2	+2	Low-Moderate risk
Sclerotinia (White Mold) on Carrot	0	-	Low risk
TOMCAST (General conditions for disease)	84	+7	High risk
BREMCAST (Lettuce downy mildew)	Sporulation-infection periods on 3/3 days	Increased risk	High risk

Daily Weather

Date (July)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
17	26.8	16.3	0.0
18	24.1	13.4	0.6
19	25.7	9.6	0.0

Soil Temperature (°C): 5cm: 19.8

