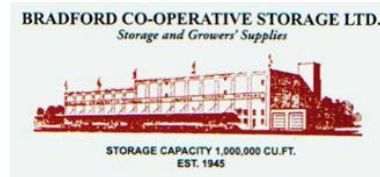




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Ontario Crops Research Centre – Bradford (Muck Station) IPM Report 2023

Forecasting, weather and degree day information as of 29 June 2023

Standard Growing Degree Day Model (starting 1 April):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
Growing degree days (DD base 5)	745	22

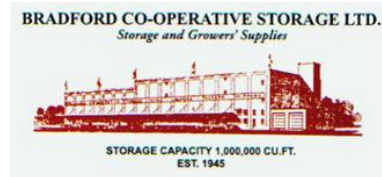
Insect Degree Day Models:

MODELS	CUMULATIVE DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
CARROT RUST FLY (DD base 3)	918	Emergence at 329-395 DD (1 st gen)	Emergence at 1399-1711 DD (2 nd gen)	Activity decreasing
ONION MAGGOT (DD base 4)	830	Emergence at 210 DD (1 st gen)	Emergence at 1025 DD (2 nd gen)	Activity
CARROT WEEVIL (DD base 7)	589	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Egg laying period likely complete
ASTER LEAFHOPPER (DD base 9)	455	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Adult activity
TARNISHED PLANT BUG (DD base 12)	281	Activity can start at 40 DD		Activity
CABBAGE MAGGOT (DD base 6)	664	Emergence at 314 DD (1 st gen)	Emergence at 847 DD (2 nd gen)	Activity
SEEDCORN MAGGOT (DD base 4)	830	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)	39	+3	Low risk
DOWNCAST (Onion downy mildew)	No sporulation infection periods	-	Low risk
BSPCast (Stemphylium leaf blight)	Conditions have not been favourable the past few days	Risk decreased	Moderate risk
White Rot on Onions	1	+1	Low-Moderate risk
Sclerotinia (White Mold) on Carrot	0	-	Low risk
TOMCAST (General conditions for disease)	37	+2	Moderate risk
BREMCAST (Lettuce downy mildew)	Sporulation-infection periods on 2/2 days	Slightly increased risk	High risk

Daily Weather

Date (June)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
27	21.65	15.7	15
28	20.94	11.42	0

Soil Temperature (°C): 5cm: 16.7

