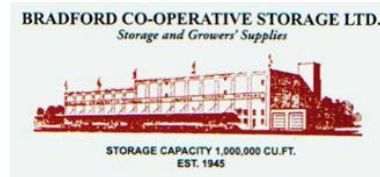




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Ontario Crops Research Centre – Bradford (Muck Station) IPM Report 2023

Forecasting, weather and degree day information as of 12 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)	519	48

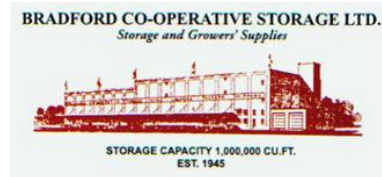
Insect Degree Day Models:

MODELS	CUMULATIVE DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
CARROT RUST FLY (DD base 3)	657	Emergence at 329-395 DD (1 st gen)	Emergence at 1399-1711 DD (2 nd gen)	Activity
ONION MAGGOT (DD base 4)	587	Emergence at 210 DD (1 st gen)	Emergence at 1025 DD (2 nd gen)	Activity
CARROT WEEVIL (DD base 7)	397	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Egg laying period
ASTER LEAFHOPPER (DD base 9)	296	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Activity
TARNISHED PLANT BUG (DD base 12)	173	Activity can start at 40 DD		Activity
CABBAGE MAGGOT (DD base 6)	454	Emergence at 314 DD (1 st gen)	Emergence at 847 DD (2 nd gen)	Activity
SEEDCORN MAGGOT (DD base 4)	587	Emergence at 200 DD (1 st gen)	Emergence at 600 DD (2 nd gen)	2 nd gen emergence soon





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Disease Forecasting

Disease model	Cumulative DSI	Change since last report	Comments
BOTCAST (Botrytis leaf blight)	18	+4	Low risk
DOWNCAST (Onion downy mildew)	No sporulation-infection periods	-	Low risk
BSPCast (Stemphylium leaf blight)	Favourable conditions on 1/4 days	Slight risk increase	Low risk
White Rot on Onions	1	-3	Low risk
Sclerotinia (White Mold) on Carrot	0	-	Low risk
TOMCAST (General conditions for disease)	17	+2	Low risk
BREMCAST (Lettuce downy mildew)	Sporulation-infection periods on 4/4 days	Continued high risk	High risk

Daily Weather

Date (June)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
8	17.87	12.15	1.4
9	21.77	8.12	2
10	27.19	11.2	0
11	21.06	15.25	1.8

Soil Temperature (°C): 5cm: 18.0

