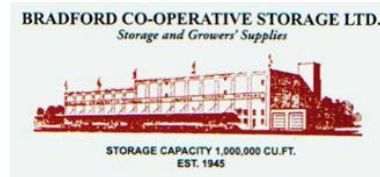




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Ontario Crops Research Centre – Bradford (Muck Station) IPM Report 2023

Forecasting, weather and degree day information as of 23 May 2023

Standard Growing Degree Day Model (starting 1 April):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
Growing degree days (DD base 5)	281	37

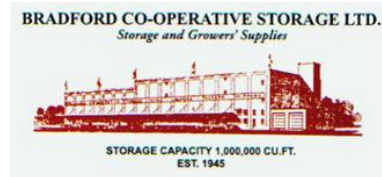
Insect Degree Day Models:

MODELS	CUMULATIVE DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
CARROT RUST FLY (DD base 3)	379	Emergence at 329-395 DD (1 st gen)	Emergence at 1399-1711 DD (2 nd gen)	Emergence expected
ONION MAGGOT (DD base 4)	329	Emergence at 210 DD (1 st gen)	Emergence at 1025 DD (2 nd gen)	Activity
CARROT WEEVIL (DD base 7)	199	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Egg laying period has started
ASTER LEAFHOPPER (DD base 9)	138	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Emergence expected
TARNISHED PLANT BUG (DD base 12)	70	Activity can start at 40 DD		Activity expected
CABBAGE MAGGOT (DD base 6)	236	Emergence at 314 DD (1 st gen)	Emergence at 847 DD (2 nd gen)	Emergence not expected yet
SEEDCORN MAGGOT (DD base 4)	329	Emergence at 200 DD (1 st gen)	Emergence at 600 DD (2 nd gen)	Activity





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Disease Forecasting

Disease model	Cumulative DSI	Change since last report	Comments
BOTCAST (Botrytis leaf blight)	11	+8	Low risk
DOWNCAST (Onion downy mildew)	Sporulation-infection period on 1/4 days	Low	Low risk. No air borne sporangia present
BSPCast (Stemphylium leaf blight)	Conditions have not been favourable	-	Low risk
White Rot on Onions	18	+4	Low risk
Sclerotinia (White Mold) on Carrot	0	-	Low risk
TOMCAST (General conditions for disease)	12	+2	Low risk
BREMCAST (Lettuce downy mildew)	Sporulation-infection periods on 4/4 days	Increased	High risk

Daily Weather

Date (May)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
19	24.8	1.9	2.4
20	15.8	10.0	25.8
21	22.5	7.8	0.0
22	22.5	4.9	0.0

Soil Temperature (°C): 5cm: 14.3

