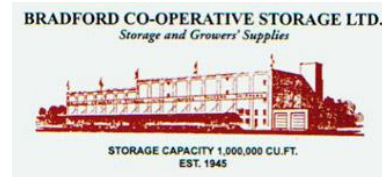




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Ontario Crops Research Centre – Bradford (Muck Station) IPM Report 2023

Forecasting, weather and degree day information as of 19 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)	244	18

Insect Degree Day Models:

MODELS	CUMULATIVE DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
CARROT RUST FLY (DD base 3)	335	Emergence at 329-395 DD (1 st gen)	Emergence at 1399-1711 DD (2 nd gen)	Emergence expected
ONION MAGGOT (DD base 4)	288	Emergence at 210 DD (1 st gen)	Emergence at 1025 DD (2 nd gen)	Activity
CARROT WEEVIL (DD base 7)	170	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Egg laying period has started
ASTER LEAFHOPPER (DD base 9)	117	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Emergence expected
TARNISHED PLANT BUG (DD base 12)	63	Activity can start at 40 DD		Activity expected
CABBAGE MAGGOT (DD base 6)	204	Emergence at 314 DD (1 st gen)	Emergence at 847 DD (2 nd gen)	Emergence not expected yet
SEEDCORN MAGGOT (DD base 4)	288	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)	3	-	Low risk
DOWNCAST (Onion downy mildew)	No sporulation-infection periods	-	Low risk
BSPCast (Stemphylium leaf blight)	Conditions have not been favourable	-	Low risk
White Rot on Onions	14	-	Low risk
Sclerotinia (White Mold) on Carrot	0	-	Low risk
TOMCAST (General conditions for disease)	10	-	Low risk
BREMCAST (Lettuce downy mildew)	Sporulation-infection periods on 2/4 days	-	Low-moderate risk

Daily Weather

Date (May)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
15	23.3	-0.3	0.0
16	23.9	5.0	0.0
17	11.4	-0.6	0.0
18	18.0	-3.2	0.0

Soil Temperature (°C): 5cm: 10.5

