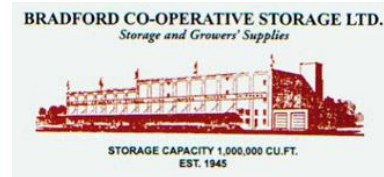




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Ontario Crops Research Centre – Bradford (Muck Station) IPM Report 2023

Forecasting, weather and degree day information as of 22 Sept 2023

Standard Growing Degree Day Model (starting 1 April):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
Growing degree days (DD base 5)	2000	101

Insect Degree Day Models:

MODELS	CUMULATIVE DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
CARROT RUST FLY (DD base 3)	2342	Emergence at 329-395 DD (1 st gen)	Emergence at 1399-1711 DD (2 nd gen)	Activity
ONION MAGGOT (DD base 4)	2170	Emergence at 210 DD (1 st gen)	Emergence at 1025 DD (2 nd gen)	Activity low
CARROT WEEVIL (DD base 7)	1673	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Activity finished
ASTER LEAFHOPPER (DD base 9)	1369	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Activity low
TARNISHED PLANT BUG (DD base 12)	940	Activity can start at 40 DD		Activity low
CABBAGE MAGGOT (DD base 6)	1833	Emergence at 314 DD (1 st gen)	Emergence at 847 DD (2 nd gen)	Activity low
SEEDCORN MAGGOT (DD base 4)	2170	Emergence at 200 DD (1 st gen)	Emergence at 600 DD (2 nd gen)	Activity low





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Disease Forecasting

Disease model	Cumulative DSI	Change since last report	Comments
Sclerotinia (White Mold) on Carrot	54	+28	Moderate-High risk
TOMCAST (General conditions for disease)	202	+4	Low risk
BREMCAST (Lettuce downy mildew)	Sporulation-infection periods on 9/9 days	Continued high risk	High risk

Daily Weather

Date (Sept)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
13	20.9	9.0	0.0
14	25.0	7.6	0.0
15	29.2	1.9	0.0
16	28.9	3.7	0.0
17	27.1	9.8	0.4
18	25.0	10.0	0.0
19	24.2	4.5	0.0
20	27.2	1.6	0.0
21	27.0	5.8	0.0

Soil Temperature (°C): 5cm: 17.1

