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Ontario Crops Research Centre – Bradford (Muck Station) IPM Report 2024

Forecasting, weather and degree day information as of 28 May 2024

Standard Growing Degree Day Model (starting 1 April):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
Growing degree days (DD base 5)	392	58

Insect Degree Day Models:

MODELS	CUMULATIVE DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
CARROT RUST FLY (DD base 3)	499	Emergence at 329-395 DD (1 st gen)	Emergence at 1399-1711 DD (2 nd gen)	Activity
ONION MAGGOT (DD base 4)	444	Emergence at 210 DD (1 st gen)	Emergence at 1025 DD (2 nd gen)	Activity increasing
CARROT WEEVIL (DD base 7)	297	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Activity increasing
ASTER LEAFHOPPER (DD base 9)	213	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Emergence
TARNISHED PLANT BUG (DD base 12)	107	Activity can start at 40 DD		Activity expected
CABBAGE MAGGOT (DD base 6)	342	Emergence at 314 DD (1 st gen)	Emergence at 847 DD (2 nd gen)	Emergence expected
SEEDCORN MAGGOT (DD base 4)	444	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)	82	-	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	29	-	Moderate risk
Sclerotinia (White Mold) on Carrot	0	-	Low risk
TOMCAST (General conditions for disease)	37	-	Moderate risk
BREMCAST (Lettuce downy mildew)	Sporulation-infection periods on 5/5 days	-	High risk

Daily Weather

Date (May)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
23	24.5	13.5	0.0
24	22.7	11.2	0.0
25	18.7	8.5	3.0
26	23.0	11.2	0.0
27	23.7	14.5	36.6

Soil Temperature (°C): 5cm: 16.6

