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

Forecasting, weather and degree day information as of 13 June 2024

Standard Growing Degree Day Model (starting 1 April):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
Growing degree days (DD base 5)	576	37

Insect Degree Day Models:

MODELS	CUMULATIVE DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
CARROT RUST FLY (DD base 3)	715	Emergence at 329-395 DD (1 st gen)	Emergence at 1399-1711 DD (2 nd gen)	Activity
ONION MAGGOT (DD base 4)	644	Emergence at 210 DD (1 st gen)	Emergence at 1025 DD (2 nd gen)	Activity
CARROT WEEVIL (DD base 7)	449	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Weevils are approaching the end of their egg laying period
ASTER LEAFHOPPER (DD base 9)	333	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Nymph activity
TARNISHED PLANT BUG (DD base 12)	180	Activity can start at 40 DD		Activity
CABBAGE MAGGOT (DD base 6)	510	Emergence at 314 DD (1 st gen)	Emergence at 847 DD (2 nd gen)	Activity
SEEDCORN MAGGOT (DD base 4)	644	Emergence at 200 DD (1 st gen)	Emergence at 600 DD (2 nd gen)	2 nd generation emergence





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Disease Forecasting

Disease model	Cumulative DSI	Change since last report	Comments
BOTCAST (Botrytis leaf blight)	114	+4	Low risk. No spores trapped.
DOWNCAST (Onion downy mildew)	No sporulation-infection periods	-	Low risk
BSPCAST (Stemphylium leaf blight)	Conditions have not been favourable	Risk maintained	Moderate risk
White Rot on Onions	45	+2	High risk
Sclerotinia (White Mold) on Carrot	0	-	Low risk
TOMCAST (General conditions for disease)	64	+2	Low risk
BREMCAST (Lettuce downy mildew)	Sporulation-infection periods on 3/3 days	Risk maintained	High risk

Daily Weather

Date (June)	Max temperature (°C)	Min temperature (°C)	Rain (mm)
10	13.6	9.9	0.0
11	18.8	9.8	0.0
12	24.7	8.1	0.0

Soil Temperature (°C): 5cm: 14.8

