



IMPROVE LIFE.



Muck Crops Research Station IPM 2019

Forecasting/weather information as of 16 August

Standard Growing Degree Day Model (starting 1 April):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
Growing degree days (DD base 5)	1404	43

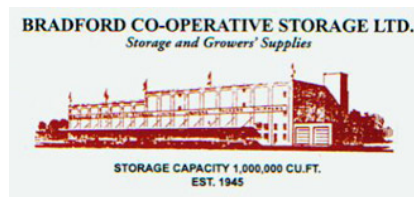
Insect Degree Day Models:

MODELS	CUM DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
CARROT RUST FLY (DD base 3)	1658	Emergence at 329-395 DD (1 st gen)	Emergence at 1399-1711 DD (2 nd gen)	2 nd generation
ONION MAGGOT (DD base 4)	1529	Emergence at 210 DD (1 st gen)	Emergence at 1025 DD (2 nd gen)	2 nd generation
CARROT WEEVIL (DD base 7)	1160	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	2 nd generation activity should be starting
ASTER LEAFHOPPER (DD base 9)	938	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Active
TARNISHED PLANT BUG (DD base 12)	649	Activity can start at 40 DD		Active
CABBAGE MAGGOT (DD base 6)	1280	Emergence at 314 DD (1 st gen)	Emergence at 847 DD (2 nd gen)	2 nd generation
SEEDCORN MAGGOT (DD base 4)	1529	Emergence at 200 DD (1 st gen)	Emergence at 600 DD (2 nd gen)	Well past 2 nd generation





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Disease Forecasting Models:

Disease model	Cumulative DSI	Change since last report	Comments
BOTCAST (Botrytis leaf blight)	81	+3	Low risk, no inoculum
DOWNCAST (Onion downy mildew)	One sporulation-infection period	Little activity	Low risk until there are three sporulation-infection periods in a row
BSPCast (Stemphylium leaf blight)	Conditions have not been favourable for development	Lower activity	Low risk
White Rot on Onions	0	-12	No risk of white rot, soil is too warm
Sclerotinia (White Mold) on Carrot	0	0	Soils too dry for white mold to develop
TOMCAST (General conditions for disease)	116	+4	Conditions favourable for leaf blights
BREMCAST (Lettuce downy mildew)	2 sporulation-infection periods	Some continued activity	Moderate risk

Daily Temperature and Rain

Date (August, 2019)	Max temperature	Min temperature	Rain (mm)
13	29.5	13.8	0.0
14	24.9	13.3	0.0
15	24.0	10.0	1.2

Soil Temperature (°C): 5cm: 21.6 10cm: 19 20 cm: 22

