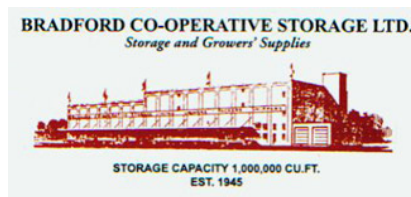




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Muck Crops Research Station IPM 2019

Forecasting/weather information as of 26 July

Standard Growing Degree Day Model (starting 1 April):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
Growing degree days (DD base 5)	1073	43

Insect Degree Day Models:

MODELS	CUM DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
CARROT RUST FLY (DD base 3)	1285	Emergence at 329-395 DD (1 st gen)	Emergence at 1399-1711 DD (2 nd gen)	Emergence for 2 nd generation near
ONION MAGGOT (DD base 4)	1177	Emergence at 210 DD (1 st gen)	Emergence at 1025 DD (2 nd gen)	Second generation active
CARROT WEEVIL (DD base 7)	842	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Egg laying threshold well past
ASTER LEAFHOPPER (DD base 9)	692	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Active
TARNISHED PLANT BUG (DD base 12)	466	Activity can start at 40 DD		Active
CABBAGE MAGGOT (DD base 6)	971	Emergence at 314 DD (1 st gen)	Emergence at 847 DD (2 nd gen)	2 nd generation
SEEDCORN MAGGOT (DD base 4)	1177	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)	83	0	
DOWNCAST (Onion downy mildew)	No sporulation infection periods	0	Temperatures are too warm, and too dry
BSPCast (Stemphylium leaf blight)	Favourable conditions for stemphylium in past 4/4 days	Still high activity	High risk
White Rot on Onions	0	0	Soils too warm and dry
Sclerotinia (White Mold) on Carrot	0	0	Soils are too dry for sclerotinia
TOMCAST (General conditions for disease)	91	+6	Relatively good conditions for leaf blights
BREMCAST (Lettuce downy mildew)	No sporulation infection periods	Little activity	Low risk

Daily Temperature and Rain

Date (July 2019)	Max temperature	Min temperature	Rain (mm)
23	26.5	10.9	0.0
24	26.3	11.1	0.0
25	29.3	12.8	0.0

Soil Temperature (°C): 5cm: 24.5 10cm: 24.8 20 cm: 24.3

