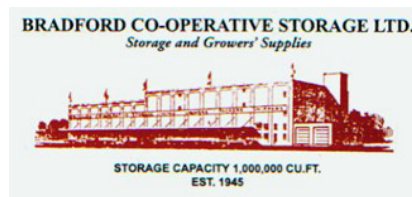




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Muck Crops Research Station IPM 2019

Forecasting/weather information as of 30 July

Standard Growing Degree Day Model (starting 1 April):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
Growing degree days (DD base 5)	1145	72

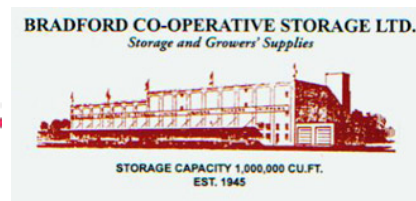
Insect Degree Day Models:

MODELS	CUM DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
CARROT RUST FLY (DD base 3)	1365	Emergence at 329-395 DD (1 st gen)	Emergence at 1399-1711 DD (2 nd gen)	Just about to emerge, adults have been seen in the marsh
ONION MAGGOT (DD base 4)	1253	Emergence at 210 DD (1 st gen)	Emergence at 1025 DD (2 nd gen)	2 nd generation
CARROT WEEVIL (DD base 7)	936	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Egg laying complete
ASTER LEAFHOPPER (DD base 9)	748	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Active
TARNISHED PLANT BUG (DD base 12)	510	Activity can start at 40 DD		Active
CABBAGE MAGGOT (DD base 6)	1039	Emergence at 314 DD (1 st gen)	Emergence at 847 DD (2 nd gen)	2 nd generation
SEEDCORN MAGGOT (DD base 4)	1253	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	Weather has not been conducive for botrytis
DOWNCAST (Onion downy mildew)	No sporulation-infection periods	No activity	Temperature and relative humidity is stopping downy mildew
BSPCast (Stemphylium leaf blight)	Good weather for stemphylium on 3 of 4 days	Continued activity	Leaf wetness is the major limiting factor; irrigated fields at a higher risk
White Rot on Onions	0	0	Soil temp too high for white rot
Sclerotinia (White Mold) on Carrot	0	0	Soil too dry for white mold
TOMCAST (General conditions for disease)	98	+7	Relatively good conditions for leaf blights
BREMCAST (Lettuce downy mildew)	1 sporulation-infection period	Low activity	Risk is low

Daily Temperature and Rain

Date (July 2019)	Max temperature	Min temperature	Rain (mm)
26	30.7	12.5	0.0
27	29.6	14.2	0.2
28	30.9	18.4	1.8
29	32.0	16.3	0.0

Soil Temperature (°C): 5cm: 25.6 10cm: 27.3 20 cm: 25.5

