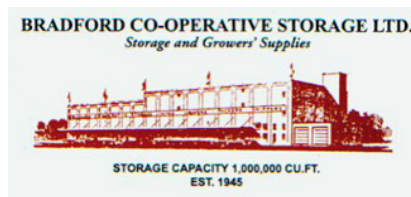




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Muck Crops Research Station IPM 2019

Forecasting/weather information as of 2 August

Standard Growing Degree Day Model (starting 1 April):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
Growing degree days (DD base 5)	1193	47

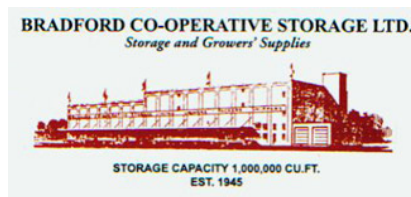
Insect Degree Day Models:

MODELS	CUM DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
CARROT RUST FLY (DD base 3)	1419	Emergence at 329-395 DD (1 st gen)	Emergence at 1399-1711 DD (2 nd gen)	2 nd generation
ONION MAGGOT (DD base 4)	1304	Emergence at 210 DD (1 st gen)	Emergence at 1025 DD (2 nd gen)	2 nd generation
CARROT WEEVIL (DD base 7)	978	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Egg laying complete
ASTER LEAFHOPPER (DD base 9)	784	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Active
TARNISHED PLANT BUG (DD base 12)	537	Activity can start at 40 DD		Active
CABBAGE MAGGOT (DD base 6)	1084	Emergence at 314 DD (1 st gen)	Emergence at 847 DD (2 nd gen)	2 nd generation
SEEDCORN MAGGOT (DD base 4)	1304	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)	87	+4	Low activity
DOWNCAST (Onion downy mildew)	No sporulation-infection periods	No activity	Low risk of downy mildew, weather not conducive
BSPCast (Stemphylium leaf blight)	Good weather on past 3 of 3 days	High activity	Weather ideal for stemphylium, high risk
White Rot on Onions	1	+1	Soil temp. has cooled, allowing white rot to potentially start. Increased temps would stop it again
Sclerotinia (White Mold) on Carrot	0	0	Soil too dry for Sclerotinia
TOMCAST (General conditions for disease)	110	+12	Ideal conditions for leaf blights to develop
BREMCAST (Lettuce downy mildew)	1 sporulation infection period	Little activity	Risk is low

Daily Temperature and Rain

Date (July/August)	Max temperature	Min temperature	Rain (mm)
30	28.7	17.7	6.2
31	27.4	13.0	0.0
1	28.3	10.2	0.0

Soil Temperature (°C): 5cm:23.9 10cm: 24.7 20 cm: 23.9

