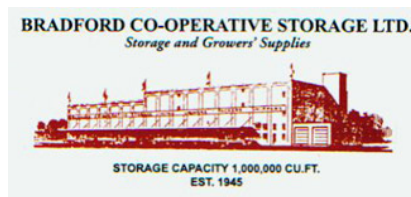




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Muck Crops Research Station IPM 2019

Forecasting/weather information as of 6 September

Standard Growing Degree Day Model (starting 1 April):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
Growing degree days (DD base 5)	1685	79

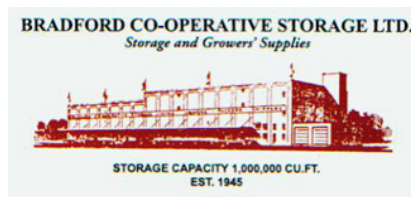
Insect Degree Day Models:

MODELS	CUM DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
CARROT RUST FLY (DD base 3)	1981	Emergence at 329-395 DD (1 st gen)	Emergence at 1399-1711 DD (2 nd gen)	2 nd generation should be complete
ONION MAGGOT (DD base 4)	1831	Emergence at 210 DD (1 st gen)	Emergence at 1025 DD (2 nd gen)	2 nd generation should be finishing up
CARROT WEEVIL (DD base 7)	1400	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	2 nd generation activity possible
ASTER LEAFHOPPER (DD base 9)	1136	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Active
TARNISHED PLANT BUG (DD base 12)	784	Activity can start at 40 DD		Active
CABBAGE MAGGOT (DD base 6)	1541	Emergence at 314 DD (1 st gen)	Emergence at 847 DD (2 nd gen)	Well past 2 nd generation
SEEDCORN MAGGOT (DD base 4)	1831	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)	122	+12	Low risk, no inoculum
DOWNCAST (Onion downy mildew)	2 sporulation-infection period	Little activity	Low risk, 3 sporulation-infection periods needed in a row to be of high concern
BSPCast (Stemphylium leaf blight)	Favourable conditions on past 4 days	Increased activity	Moderate risk, activity has decreased over the past 4 days
White Rot on Onions	7	Some activity	Low risk, disease takes several weeks to develop
Sclerotinia (White Mold) on Carrot	0	No activity	Soil too dry for white mold
TOMCAST (General conditions for disease)	145	+7	High risk, ideal conditions for leaf blights to develop
BREMCAST (Lettuce downy mildew)	sporulation-infection periods the past 7 days	Continued activity	High risk, ideal conditions for lettuce downy mildew

Daily Temperature and Rain

Date (September, 2019)	Max temperature	Min temperature	Rain (mm)
30	22.2	11.0	1.8
31	22.1	8.4	0
1	19.9	8.4	0.4
2	23.1	14.6	2.4
3	22.2	12.8	0
4	21.3	9.9	0
5	24.3	5.5	0

Soil Temperature (°C): 5cm: 18.7 10cm: 20.6 20 cm: 18.7

