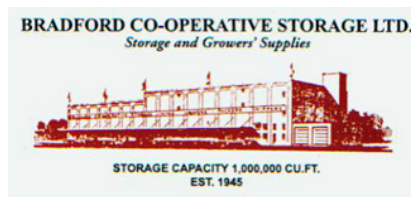




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Muck Crops Research Station IPM 2019

Forecasting/weather information as of 14 June

Standard Growing Degree Day Model (starting 1 April):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
Growing degree days (DD base 5)	397	30

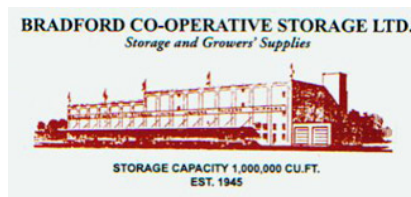
Insect Degree Day Models:

MODELS	CUM DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
CARROT RUST FLY (DD base 3)	525	Emergence at 329-395 DD (1 st gen)	Emergence at 1399-1711 DD (2 nd gen)	First gen active, trapped in the marsh
ONION MAGGOT (DD base 4)	459	Emergence at 210 DD (1 st gen)	Emergence at 1025 DD (2 nd gen)	Adults active, appear to past peak emergence on traps
CARROT WEEVIL (DD base 7)	280	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Egg laying active, observed in marsh
ASTER LEAFHOPPER (DD base 9)	184	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Nymphs emerged
TARNISHED PLANT BUG (DD base 12)	84	Activity can start at 40 DD		TPB active, seen in marsh
CABBAGE MAGGOT (DD base 6)	337	Emergence at 314 DD (1 st gen)	Emergence at 847 DD (2 nd gen)	First generation active
SEEDCORN MAGGOT (DD base 4)	459	Emergence at 200 DD (1 st gen)	Emergence at 600 DD (2 nd gen)	





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Disease Forecasting Models:

Disease model	Cumulative DSI	Change since last report	Comments
BOTCAST (Botrytis leaf blight)	28		There was an error in the BOTCAST calculation. Risk is medium-low as little to no inoculum is present in the marsh
DOWNCAST (Onion downy mildew)	No sporulation-infection periods		
BSPCast (Stemphylium leaf blight)	Low risk		
White Rot on Onions	29	+3	White rot now could be appearing on onions, risk is medium
Sclerotinia (White Mold) on Carrot	0		
TOMCAST (General conditions for disease)	12	+1	
BREMCAS (Lettuce downy mildew)	1 sporulation-infection period	Some activity	Risk is low

Daily Temperature and Rain

Date (June 2019)	Max temperature	Min temperature	Rain (mm)
11	21.6	9.3	0.0
12	23.4	6.3	0.0
13	17.5	12.3	12.4

Soil Temperature (°C): 5cm: 16.4 10cm: 15.5 20 cm: 17.1

