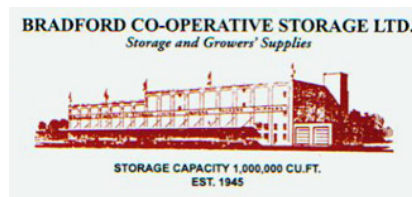




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Muck Crops Research Station IPM 2019

Forecasting/weather information as of [date]

Standard Growing Degree Day Model (starting 1 April):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
Growing degree days (DD base 5)	783	71

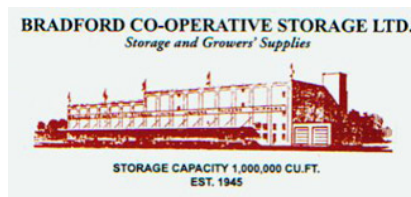
Insect Degree Day Models:

MODELS	CUM DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
CARROT RUST FLY (DD base 3)	961	Emergence at 329-395 DD (1 st gen)	Emergence at 1399-1711 DD (2 nd gen)	Between generations
ONION MAGGOT (DD base 4)	870	Emergence at 210 DD (1 st gen)	Emergence at 1025 DD (2 nd gen)	Between generations
CARROT WEEVIL (DD base 7)	615	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Egg laying complete
ASTER LEAFHOPPER (DD base 9)	470	Nymphs emerge at 128 DD	Adults emerge at 390 DD	Adults emerging
TARNISHED PLANT BUG (DD base 12)	294	Activity can start at 40 DD		Active
CABBAGE MAGGOT (DD base 6)	698	Emergence at 314 DD (1 st gen)	Emergence at 847 DD (2 nd gen)	Nearing 2 nd generation
SEEDCORN MAGGOT (DD base 4)	870	Emergence at 200 DD (1 st gen)	Emergence at 600 DD (2 nd gen)	2 nd generation





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Disease Forecasting Models:

Disease model	Cumulative DSI	Change since last report	Comments
BOTCAST (Botrytis leaf blight)	68	+6	Conditions have been appropriate for botrytis but no disease seen, likely no inoculum so risk is low
DOWNCAST (Onion downy mildew)	2 Sporulation-infection periods	Slight activity	Some sporadic chances for downy mildew sporulation, but not consistent enough to create risk to onions
BSPCast (Stemphylium leaf blight)	Favourable conditions in 1/4 days	Slight activity	Leaf wetness has significantly dropped, limiting disease development
White Rot on Onions	0	0	Soil temperatures have exceeded the low temperatures needed for white rot development
Sclerotinia (White Mold) on Carrot	0	0	No risk until canopy closes
TOMCAST (General conditions for disease)	47	+6	Conditions generally favourable for diseases
BREMCAST (Lettuce downy mildew)	1 sporulation-infection period	Slight activity	Minimal activity, risk is low

Daily Temperature and Rain

Date (July 2019)	Max temperature	Min temperature	Rain (mm)
5	33.6	17.8	14.2
6	30.0	21.3	0.2
7	25.8	15.3	0.0
8	27.0	11.1	0.0

Soil Temperature (°C): 5cm: 23.6

10cm: 23.5

20 cm: 23.8

