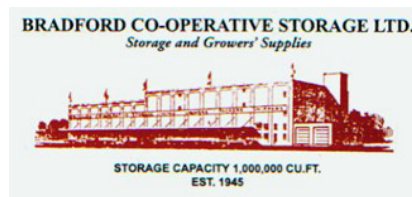




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Muck Crops Research Station IPM 2019

Forecasting/weather information as of 28 May

Standard Growing Degree Day Model (starting 1 April):

MODELS	CUMULATIVE DEGREE DAYS	DEGREE DAYS SINCE LAST REPORT
Growing degree days (DD base 5)	227	43

Insect Degree Day Models:

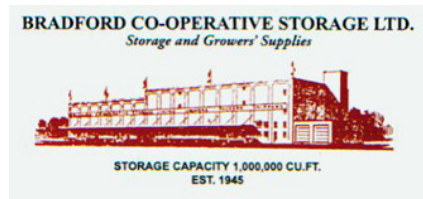
MODELS	CUM DEGREE DAYS	THRESHOLD ONE	THRESHOLD TWO	COMMENTS:
CARROT RUST FLY (DD base 3)	321	Emergence at 329-395 DD (1 st gen)	Emergence at 1399-1711 DD (2 nd gen)	First generation imminent
ONION MAGGOT (DD base 4)	272	Emergence at 210 DD (1 st gen)	Emergence at 1025 DD (2 nd gen)	First generation occurring
CARROT WEEVIL (DD base 7)	144	Egg laying starts at 138-156 DD	Egg laying 90% complete at 455 DD	Egg laying starting
ASTER LEAFHOPPER (DD base 9)	82	Nymphs emerge at 128 DD	Adults emerge at 390 DD	
TARNISHED PLANT BUG (DD base 12)	29	Activity can start at 40 DD		
CABBAGE MAGGOT (DD base 6)	184	Emergence at 314 DD (1 st gen)	Emergence at 847 DD (2 nd gen)	
SEEDCORN MAGGOT (DD base 4)	272	Emergence at 200 DD (1 st gen)	Emergence at 600 DD (2 nd gen)	First generation occurring

Disease model	Cumulative DSI	Change since last report	Comments
BOTCAST (Botrytis leaf blight)	0	0	
DOWNCAST (Onion downy mildew)	0	0	





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Disease model	Cumulative DSI	Change since last report	Comments
BSPCast (Stemphylium leaf blight)	Low risk		
White Rot on Onions	10	+4	Risk is accumulating, becomes significant at 28
Sclerotinia (White Mold) on Carrot	0		
TOMCAST (General conditions for disease)	4	+2	Some warmth and moisture creates some risk, though plant material is limited for infection
BREMCAST (Lettuce downy mildew)	1 sporulation infection period		Risk is low

Date (May 2019)	Max temperature	Min temperature	Rain (mm)
24	21.2	11.2	0.0
25	21.1	11.3	8.6
26	20.7	11.5	0.0
27	22.1	7.2	0.0

Soil Temperature (°C): 5cm: 17.5 10cm: 19.8 20 cm: 20.6