

MUCK CROPS RESEARCH STATION IPM 2018

Forecasting / weather information as of July 27, 2018

MODELS	CUM DEGREE DAYS	THRESHOLDS		COMMENTS:
		ONE	TWO	
Standard Growing Degree Day Model (Start April 1, 2017):				
GROWING DEGREE DAYS (DD base 5)	1230	not applicable	not applicable	
Insect Degree Day Models:				
CARROT RUST FLY (DD base 3)	1423	329-395 DD	1399-1711 DD	Approaching 2nd generation
ONION MAGGOT (DD base 4)	1325	210 DD 1 st Gen	1025 DD 2 nd Gen	2nd generation
CARROT WEEVIL (DD base 7)	1041	138-156 DD Oviposition	455 DD 90% oviposition	No more oviposition expected until potential 2nd generation
ASTER LEAFHOPPER (DD base 9)	858	128 DD	390 DD adult emerge	Adults detected
TARNISHED PLANT BUG (DD base 12)	600	40 DD		Active, adults detected
CABBAGE MAGGOT (DD base 6)	1135	314 DD 1 st Gen	847 DD 2 nd Gen	2nd generation
SEEDCORN MAGGOT (DD base 4)	1325	200 DD 1 st Gen	600 DD 2 nd Gen	2nd Generation

DATE (June/July, 2018)	TEMPERATURE		RAIN (mm)
	MAX	MIN	
20	28.7	11.3	0
21	26.1	20.1	0.2
22	22.0	16.6	14.4
23	27.1	17.3	0
24	29.5	21.3	11.6
25	28.1	16.3	1.8
26	28.3	13.1	9.0

Disease Model	Cumulative DSI	Change since last report	Comments
BOTCAST (Botrytis leaf blight)	37	+9	Risk is low, DSI is still climbing relatively slowly
TOMCAST (Used here for generally favourable disease conditions)	79	15	Hot weather with leaf wetness can promote disease
DOWNCAST (Onion downy mildew)	No sporulation/infection periods on station, but another weather station in the marsh indicates weather has been favourable.	Likely some activity is possible	Risk is moderate to high, preventative measures are likely needed.
BREMCAST (Lettuce downy mildew)	Two sporulation/infection periods over the past week	Minor activity	Risk is low to moderate