

MUCK CROPS RESEARCH STATION IPM 2018

Forecasting / weather information as of July 31, 2018

MODELS	CUM DEGREE DAYS	THRESHOLDS		COMMENTS:
		ONE	TWO	
Standard Growing Degree Day Model (Start April 1, 2017):				
GROWING DEGREE DAYS (DD base 5)	1285	not applicable	not applicable	
Insect Degree Day Models:				
CARROT RUST FLY (DD base 3)	1487	329-395 DD	1399-1711 DD	Approaching 2nd generation
ONION MAGGOT (DD base 4)	1385	210 DD 1 st Gen	1025 DD 2 nd Gen	2nd generation, captures minimal
CARROT WEEVIL (DD base 7)	1088	138-156 DD Oviposition	455 DD 90% oviposition	2nd generation is possible, but exact determination is not available
ASTER LEAFHOPPER (DD base 9)	897	128 DD	390 DD adult emerge	Adults detected
TARNISHED PLANT BUG (DD base 12)	627	40 DD		Active, adults detected
CABBAGE MAGGOT (DD base 6)	1186	314 DD 1 st Gen	847 DD 2 nd Gen	2nd generation
SEEDCORN MAGGOT (DD base 4)	1385	200 DD 1 st Gen	600 DD 2 nd Gen	2nd Generation

DATE (July, 2018)	TEMPERATURE		RAIN (mm)
	MAX	MIN	
27	25.9	14.5	0.8
28	21.9	13.5	1.2
29	26.7	8.9	0
30	27.5	11.9	0

Disease Model	Cumulative DSI	Change since last report	Comments
BOTCAST (Botrytis leaf blight)	45	+8	Conditions are appropriate for Botyrtis, none seen in the marsh so far
TOMCAST (Used here for generally favourable disease conditions)	90	11	Ideal conditions for fungal growth
DOWNCAST (Onion downy mildew)	3 sporulation/infection periods in the past four days.	Downy mildew is active	Risk is high, ensure crops are protected
BREMCAST (Lettuce downy mildew)	No sporulation/infection periods over the past four days.	No activity	Risk is low, disease limited by leaf wetness, irrigation in the morning could change this