

MUCK CROPS RESEARCH STATION IPM 2018
Forecasting / weather information as of August 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)	1743	not applicable	not applicable	
Insect Degree Day Models:				
CARROT RUST FLY (DD base 3)	1999	329-395 DD	1399-1711 DD	2nd generation, captured in field
ONION MAGGOT (DD base 4)	1870	210 DD 1 st Gen	1025 DD 2 nd Gen	2nd generation, captures minimal
CARROT WEEVIL (DD base 7)	1493	138-156 DD Oviposition	455 DD 90% oviposition	2nd generation is possible, but exact determination is not available
ASTER LEAFHOPPER (DD base 9)	1247	128 DD	390 DD adult emerge	Adults detected, aster yellows detected
TARNISHED PLANT BUG (DD base 12)	896	40 DD		Active, adults detected
CABBAGE MAGGOT (DD base 6)	1618	314 DD 1 st Gen	847 DD 2 nd Gen	2nd generation
SEEDCORN MAGGOT (DD base 4)	1870	200 DD 1 st Gen	600 DD 2 nd Gen	2nd Generation

DATE (August, 2018)	TEMPERATURE		RAIN (mm)
	MAX	MIN	
17	24.1	17.6	28.6
18	25.8	13.2	0.2
19	26.1	13.4	0
20	25.5	13.7	0
21	24.3	19.2	40.6
22	20.2	13.8	3.6
23	26.8	11.9	0
24	27.0	12.2	0
25	25.1	19.2	2.4
26	28.9	18.4	4.4

Disease Model	Cumulative DSI	Change since last report	Comments
BOTCAST (Botrytis leaf blight)	68	+10	Favourable conditions but no spores; no botrytis seen in marsh this year, risk is low
TOMCAST (Used here for generally favourable disease conditions)	149	+29 over 10 days	Ideal conditions for fungal growth
DOWNCAST (Onion downy mildew)	5 sporulation/infection periods in the past seven days.	Downy mildew can be active	Risk is moderate, sprays seem to have protected fields; minimal spores have been seen and rainfall is limiting sporulation occasionally
BREMCAST (Lettuce downy mildew)	Five sporulation/infection periods in the past seven days, risk is high.	Active	Risk is moderate to high, with spores and disease seen.