

MUCK CROPS RESEARCH STATION IPM 2018

Forecasting / weather information as of August 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)	1810	not applicable	not applicable	
Insect Degree Day Models:				
CARROT RUST FLY (DD base 3)	2074	329-395 DD	1399-1711 DD	2nd generation, captured in field
ONION MAGGOT (DD base 4)	1941	210 DD 1 st Gen	1025 DD 2 nd Gen	2nd generation, captures minimal
CARROT WEEVIL (DD base 7)	1552	138-156 DD Oviposition	455 DD 90% oviposition	2nd generation is possible, but exact determination is not available
ASTER LEAFHOPPER (DD base 9)	1298	128 DD	390 DD adult emerge	Adults detected, aster yellows detected
TARNISHED PLANT BUG (DD base 12)	935	40 DD		Active, adults detected
CABBAGE MAGGOT (DD base 6)	1681	314 DD 1 st Gen	847 DD 2 nd Gen	2nd generation
SEEDCORN MAGGOT (DD base 4)	1941	200 DD 1 st Gen	600 DD 2 nd Gen	2nd Generation

DATE (August, 2018)	TEMPERATURE		RAIN (mm)
	MAX	MIN	
27	28.1	16.6	0.2
28	31.4	21.1	0
29	27.9	17.2	1.0
30	18.8	13.1	0

Disease Model	Cumulative DSI	Change since last report	Comments
BOTCAST (Botrytis leaf blight)	76	+8	Favourable conditions but no spores; no botrytis seen in marsh this year, risk is low and onions are finishing up
TOMCAST (Used here for generally favourable disease conditions)	161	+12	Ideal conditions for fungal growth, moist and warm
DOWNCAST (Onion downy mildew)	Two sporulation/infection periods in the past five days.	Downy mildew can be active	Risk is low to moderate, sprays seem to have protected fields; minimal spores have been seen and onions are finishing up
BREMCAST (Lettuce downy mildew)	Two sporulation/infection periods in the past four days, risk is high.	Moderately active	Risk is moderate, with spores and disease seen.