

## MUCK CROPS RESEARCH STATION IPM 2018

## Forecasting / weather information as of July 3, 2018

MODELS	CUM DEGREE DAYS	THRESHOLDS		COMMENTS:
		ONE	TWO	
Standard Growing Degree Day Model (Start April 1, 2017):				
<b>GROWING DEGREE DAYS</b> (DD base 5)	<b>886</b>	not applicable	not applicable	
Insect Degree Day Models:				
<b>CARROT RUST FLY</b> (DD base 3)	<b>1038</b>	329-395 DD	1399-1711 DD	<b>Approaching 2<sup>nd</sup> generation</b>
<b>ONION MAGGOT</b> (DD base 4)	<b>961</b>	210 DD 1 <sup>st</sup> Gen	1025 DD 2 <sup>nd</sup> Gen	<b>Nearing 2<sup>nd</sup> generation</b>
<b>CARROT WEEVIL</b> (DD base 7)	<b>740</b>	138-156 DD Oviposition	455 DD 90% oviposition	<b>90% oviposition threshold reached, oviposition significantly declining in marsh</b>
<b>ASTER LEAFHOPPER</b> (DD base 9)	<b>598</b>	128 DD	390 DD adult emerge	<b>Adults detected</b>
<b>TARNISHED PLANT BUG</b> (DD base 12)	<b>403</b>	40 DD		<b>Active, adults detected</b>
<b>CABBAGE MAGGOT</b> (DD base 6)	<b>813</b>	314 DD 1 <sup>st</sup> Gen	847 DD 2 <sup>nd</sup> Gen	<b>Nearing 2<sup>nd</sup> generation</b>
<b>SEEDCORN MAGGOT</b> (DD base 4)	<b>961</b>	200 DD 1 <sup>st</sup> Gen	600 DD 2 <sup>nd</sup> Gen	<b>2<sup>nd</sup> Generation</b>

DATE (June/July, 2018)	TEMPERATURE		RAIN (mm)
	MAX	MIN	
3	32.9	14.2	0
4	33.9	13.3	0
5	35.1	19.3	60.4

Disease Model	Cumulative DSI	Change since last report	Comments
BOTCAST (Botrytis leaf blight)	26	+0	Risk is moderate, although no risk accumulation in past few days. Hot weather prevents botrytis from developing.
TOMCAST (Used here for generally favourable disease conditions)	42	+4	Conditions were generally favourable for disease development
DOWNCAST (Onion downy mildew)	No sporulation/infection periods	No activity	Dry, hot weather reduced risk completely, risk is low/negligible
BREMCAST (Lettuce downy mildew)	No sporulation/infection periods	No activity	Dry, hot weather reduced risk completely, risk is low/negligible