



Science For A Better Life



### MUCK CROPS RESEARCH STATION IPM 2017

#### Forecasting / weather information as of June 27, 2017

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>689</b>	not applicable	not applicable	
Insect Degree Day Models:				
<b>CARROT RUST FLY</b> (DD base 3)	<b>857</b>	329-395 DD	1399-1711 DD	
<b>ONION MAGGOT</b> (DD base 4)	<b>772</b>	210 DD 1 <sup>st</sup> Gen	1025 DD 2 <sup>nd</sup> Gen	
<b>CARROT WEEVIL</b> (DD base 7)	<b>534</b>	138-156 DD Oviposition	455 DD 90% oviposition	<b>Oviposition 90% complete.</b>
<b>ASTER LEAFHOPPER</b> (DD base 9)	<b>402</b>	128 DD	390 DD adult emerge	<b>Nearing adult emergence.</b>
<b>TARNISHED PLANT BUG</b> (DD base 12)	<b>245</b>	40 DD		<b>Active, adults possible</b>
<b>CABBAGE MAGGOT</b> (DD base 6)	<b>608</b>	314 DD 1 <sup>st</sup> Gen	847 DD 2 <sup>nd</sup> Gen	<b>First gen.</b>
<b>SEEDCORN MAGGOT</b> (DD base 4)	<b>772</b>	200 DD 1 <sup>st</sup> Gen	600 DD 2 <sup>nd</sup> Gen	<b>2<sup>nd</sup> gen.</b>

#### Disease Forecasting

**BOTCAST** – Cumulative disease severity index (CDSI) for botrytis currently at 20, therefore risk has increased. Botrytis can be expected during scouting, and sprays would be recommended if rain is expected. However in the marsh, extensive rainfalls and flooding have made fields inaccessible.

**DOWNCAST** – No sporulation has occurred, meaning risk of downy mildew on onion is low.

**BREMCAS** – There have been no sporulation infection periods (SIP) for downy mildew on lettuce in the past four days, meaning risk is low.

**TOMCAST** – CDSI of 24.

#### Soil Temperatures:

June 26: 5 cm – 17.4  
10 cm – 16.6  
20 cm – 18.1

DATE (June, 2017)	TEMPERATURE (°C)		ACCUMULATED RAINFALL (mm)
	MAX	MIN	
23	25.4	9.5	78.4
24	25.9	18.9	0.0
25	23.4	14.7	2.2
26	20.6	13.6	27.6

