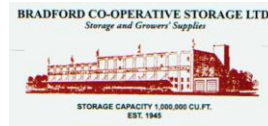




Science For A Better Life



### MUCK CROPS RESEARCH STATION IPM 2017

#### Forecasting / weather information as of August 8, 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>1334</b>	not applicable	not applicable	
Insect Degree Day Models:				
<b>CARROT RUST FLY</b> (DD base 3)	<b>1586</b>	329-395 DD	1399-1711 DD	<b>2<sup>nd</sup> gen. active</b>
<b>ONION MAGGOT</b> (DD base 4)	<b>1459</b>	210 DD 1 <sup>st</sup> Gen	1025 DD 2 <sup>nd</sup> Gen	<b>2<sup>nd</sup> gen. active</b>
<b>CARROT WEEVIL</b> (DD base 7)	<b>1095</b>	138-156 DD Oviposition	455 DD 90% oviposition	
<b>ASTER LEAFHOPPER</b> (DD base 9)	<b>879</b>	128 DD	390 DD adult emerge	
<b>TARNISHED PLANT BUG</b> (DD base 12)	<b>596</b>	40 DD		
<b>CABBAGE MAGGOT</b> (DD base 6)	<b>1210</b>	314 DD 1 <sup>st</sup> Gen	847 DD 2 <sup>nd</sup> Gen	
<b>SEEDCORN MAGGOT</b> (DD base 4)	<b>1459</b>	200 DD 1 <sup>st</sup> Gen	600 DD 2 <sup>nd</sup> Gen	

#### Disease Forecasting

**BOTCAST** – Cumulative disease severity index (CDSI) for botrytis currently at 75, risk is moderate.

**DOWNCAST** – Zero sporulation periods and three infection periods in the past four days, risk is moderate.

**BREMCAST** – There have been two sporulation infection period (SIP) for downy mildew on lettuce in the past four days, meaning risk is low to moderate.

**TOMCAST** – CDSI of 92.

#### Soil Temperatures:

July 31: 5 cm – 19.7  
10 cm – 19.9  
20 cm – 18.9

DATE (August, 2017)	TEMPERATURE (°C)		ACCUMULATED RAINFALL (mm)
	MAX	MIN	
4	28.1	16.7	11.8
5	26.4	15.7	0.6
6	20.5	12.4	0.6
7	26.1	8.7	5.4

