



Science For A Better Life

### MUCK CROPS RESEARCH STATION IPM 2017

#### Forecasting / weather information as of September 28, 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>1991</b>	not applicable	not applicable	
Insect Degree Day Models:				
<b>CARROT RUST FLY</b> (DD base 3)	<b>2343</b>	329-395 DD	1399-1711 DD	
<b>ONION MAGGOT</b> (DD base 4)	<b>2167</b>	210 DD 1 <sup>st</sup> Gen	1025 DD 2 <sup>nd</sup> Gen	
<b>CARROT WEEVIL</b> (DD base 7)	<b>1652</b>	138-156 DD Oviposition	455 DD 90% oviposition	
<b>ASTER LEAFHOPPER</b> (DD base 9)	<b>1336</b>	128 DD	390 DD adult emerge	
<b>TARNISHED PLANT BUG</b> (DD base 12)	<b>907</b>	40 DD		
<b>CABBAGE MAGGOT</b> (DD base 6)	<b>1818</b>	314 DD 1 <sup>st</sup> Gen	847 DD 2 <sup>nd</sup> Gen	
<b>SEEDCORN MAGGOT</b> (DD base 4)	<b>2167</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 115, risk is moderate although onions are closed to finished.

**DOWNCAST** – Sporulation is no longer occurring, and onions are nearly complete. Risk is low.

**BREMCAST** – There have been no sporulation periods in the past week.

**TOMCAST** – CDSI of 141.

#### Soil Temperatures:

Sept 27: 5 cm – 21.2

10 cm – 22.2

20 cm – 21.1

DATE (Sept, 2017)	TEMPERATURE (°C)		ACCUMULATED RAINFALL (mm)
	MAX	MIN	
22	28.4	12.4	0.0
23	30.4	13.2	0.0
24	33.3	14.6	0.0
25	34.6	16.4	0.0
26	32.6	15.1	0.0
27	33.0	15.2	0.0





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