



## MUCK CROPS RESEARCH STATION IPM 2014

### Forecasting / weather information as of August 5, 2014

MODELS	CUM DEGREE DAYS	THRESHOLDS		COMMENTS:
		ONE	TWO	
Standard Growing Degree Day Model:				
<b>GROWING DEGREE DAYS</b> (DD base 5)	1268.0	not applicable	not applicable	
Insect Degree Day Models:				
<b>CARROT RUST FLY</b> (DD base 3)	1503.3	329-395 DD	1399-1711 DD	<b>Reached threshold for 2<sup>nd</sup> generation emergence</b>
<b>ONION MAGGOT</b> (DD base 4)	1383.9	210 DD 1 <sup>st</sup> Gen	1025 DD 2 <sup>nd</sup> Gen	<b>Reached threshold for 2<sup>nd</sup> generation emergence</b>
<b>CARROT WEEVIL</b> (DD base 7)	1044.5	138-156 DD Oviposition	455 DD 90% Oviposition	
<b>ASTER LEAFHOPPER</b> (DD base 9)	842.1	128 DD eggs hatch	390 DD adult emerge	
<b>TARNISHED PLANT BUG</b> (DD base 12)	570.7	40 DD		

DATE (August,2014)	TEMPERATURE (°C)		ACCUMULATED RAINFALL (mm)
	MAX	MIN	
1	27.5	10.6	33.2
2	26.7	11.7	0.1
3	28.3	14.4	0
4	27.2	13.9	5.8

### Soil Temperatures

August 5: 10 cm = 21.1, 20 cm = 18.1°C

**BOTCAST:** The cumulative disease severity index (CDSI) for botrytis leaf blight is 37. Risk of botrytis leaf blight at this time is high.

**DOWNCAST** predicted 6 sporulation infection periods in the last 6 days. Taking into account the weather forecast and crop canopy size, risk of downy mildew on transplanted and seeded onions is high.

**BREMCAST** predicted 3 sporulation infection periods in the last 4 days. Risk of downy mildew of lettuce is high.

