



## MUCK CROPS RESEARCH STATION IPM 2014

### Forecasting / weather information as of July 7, 2014

MODELS	CUM DEGREE DAYS	THRESHOLDS		COMMENTS:
		ONE	TWO	
Standard Growing Degree Day Model:				
<b>GROWING DEGREE DAYS</b> (DD base 5)	857.5	not applicable	not applicable	
Insect Degree Day Models:				
<b>CARROT RUST FLY</b> (DD base 3)	1034.8	329-395 DD	1399-1711 DD	<b>Getting close to the 2<sup>nd</sup> generation threshold</b>
<b>ONION MAGGOT</b> (DD base 4)	944.4	210 DD 1 <sup>st</sup> Gen	1025 DD 2 <sup>nd</sup> Gen	<b>Close to the 2<sup>nd</sup> generation threshold</b>
<b>CARROT WEEVIL</b> (DD base 7)	692.0	138-156 DD Oviposition	455 DD 90% Oviposition	<b>Reached threshold for 90% of egg laying</b>
<b>ASTER LEAFHOPPER</b> (DD base 9)	547.6	128 DD eggs hatch	390 DD adult emerge	<b>Adult emergence threshold reached</b>
<b>TARNISHED PLANT BUG</b> (DD base 12)	363.2	40 DD		<b>Reached threshold for adult emergence</b>

DATE (July,2013)	TEMPERATURE (°C)		ACCUMULATED RAINFALL (mm)
	MAX	MIN	
3	23.44	11.58	0
4	24.35	8.36	0
5	28.79	8.73	0
6	29.21	13.22	0.1

### Soil Temperatures

July 3: 20 cm = 19.8°C

**BOTCAST:** The cumulative disease severity index (CDSI) for botrytis leaf blight is 16. Risk of botrytis leaf blight at this time is moderate.

**DOWNCAST** predicted no sporulation infection periods in the last 4 days. Taking into account the weather forecast and crop canopy size, risk of downy mildew on transplanted onions is moderate and low to moderate on seeded onions.

**BREMCAST** predicted no sporulation infection periods in the last 4 days. Risk of downy mildew of lettuce is low to moderate.

