



## MUCK CROPS RESEARCH STATION IPM 2009

### Forecasting / weather / soil information as of June 19, 2009

MODELS	CUM DEGREE DAYS	THRESHOLDS		COMMENTS:
		ONE	TWO	
Standard Growing Degree Day Model:				
<b>GROWING DEGREE DAYS</b> (DD base 5)	470.3	not applicable	not applicable	
Insect Degree Day Models:				
<b>CARROT RUST FLY</b> (DD base 3)	610.9	329-395 DD	1399-1711 DD	<b>Past the 1<sup>st</sup> generation emergence</b>
<b>ONION MAGGOT</b> (DD base 4)	540.3	210 DD 1 <sup>st</sup> Gen	1025 DD 2 <sup>nd</sup> Gen	<b>Past the 1<sup>st</sup> generation emergence</b>
<b>CARROT WEEVIL</b> (DD base 7)	337.5	138-156 DD	455 DD 90% oviposition	<b>Reached the DD threshold for oviposition</b>
<b>LEAF HOPPER</b> (DD base 9)	227.4	128 DD	390 DD adult emerge	<b>Reached the DD threshold for overwintering eggs to hatch</b>
<b>TARNISHED PLANT BUG</b> (DD base 12)	100.4	40 DD		<b>Reached emergence threshold</b>

DATE	TEMPERATURE (°C)		ACCUMULATED RAINFALL (mm)
	MAX	MIN	
16 June	24.9	8.4	0
17 June	23.0	14.7	3.8
18 June	19.0	11.5	2.3

### Soil Temperatures

June 18: 5 cm =16.4°C;      20 cm =15.1°C

### Disease Forecast

BOTCAST which is used to predict botrytis on onions has a cumulative disease severity index (CDSI) of 8. Risk of developing botrytis on onions at this time is low.

DOWNCAST predicted no sporulation infection period for the last 3 days. Risk of downy mildew on onion is low.

BREMCAS predicted sporulation infection period on June 18. Risk of downy mildew on lettuce is low to moderate today, but if rains, gets cooler and leaves remain wet for longer periods this weekend, risk will increase especially in older plantings.

