



## MUCK CROPS RESEARCH STATION IPM 2009

### Forecasting / weather information as of July 7, 2009

MODELS	CUM DEGREE DAYS	THRESHOLDS		COMMENTS:
		ONE	TWO	
Standard Growing Degree Day Model:				
<b>GROWING DEGREE DAYS</b> (DD base 5)	717.2	not applicable	not applicable	
Insect Degree Day Models:				
<b>CARROT RUST FLY</b> (DD base 3)	893.8	329-395 DD	1399-1711 DD	<b>Past the 1<sup>st</sup> generation emergence</b>
<b>ONION MAGGOT</b> (DD base 4)	805.2	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)	548.4	138-156 DD	455 DD 90% oviposition	<b>Reached the DD threshold for 90% oviposition</b>
<b>LEAF HOPPER</b> (DD base 9)	402.3	128 DD	390 DD adult emerge	<b>Reached the DD threshold for local adult emergence</b>
<b>TARNISHED PLANT BUG</b> (DD base 12)	221.3	40 DD		<b>Past emergence threshold</b>

DATE	TEMPERATURE (°C)		ACCUMULATED RAINFALL (mm)
	MAX	MIN	
03 July	21.8	14.0	3.0
04 July	20.3	11.2	0
05 July	25.3	7.0	0
06 July	21.8	11.7	0

### Disease Forecast

BOTCAST has a cumulative disease severity index (CDSI) of 18. The CDSI is very close to the first spray threshold, which is between 20 – 30 CDSI values and when we have a count of 1 lesion per leaf. Risk of developing botrytis on onion at this moment is moderate. Growers should scout their fields for botrytis blight and apply the first fungicide spray before the next rain if their field meets spray requirement.

DOWNCAST has predicted no onion downy mildew sporulation infection period occurring during the last 4 days. Risk of downy mildew developing in transplanted onions is low to moderate. If growers are having onions on onions and the field has a history of onion downy mildew, the risk of developing downy mildew will increase. Risk of downy mildew on seeded onions is low.

BREMCAST predicted no sporulation infection period of downy mildew of lettuce in the last 4 days. Risk of downy mildew on lettuce is low to moderate. If it rains, gets cooler and leaf remains wet for longer periods, risk of downy mildew will increase especially in older plantings.

