



## MUCK CROPS RESEARCH STATION IPM 2009

### Forecasting / weather information as of July 14, 2009

MODELS	CUM DEGREE DAYS	THRESHOLDS		COMMENTS:
		ONE	TWO	
Standard Growing Degree Day Model:				
<b>GROWING DEGREE DAYS</b> (DD base 5)	799.3	not applicable	not applicable	
Insect Degree Day Models:				
<b>CARROT RUST FLY</b> (DD base 3)	989.8	329-395 DD	1399-1711 DD	<b>Past the 1<sup>st</sup> generation emergence</b>
<b>ONION MAGGOT</b> (DD base 4)	894.3	210 DD 1 <sup>st</sup> Gen	1025 DD 2 <sup>nd</sup> Gen	<b>Approaching the 2<sup>st</sup> generation emergence</b>
<b>CARROT WEEVIL</b> (DD base 7)	616.5	138-156 DD	455 DD 90% oviposition	<b>Past the DD threshold for 90% oviposition</b>
<b>LEAF HOPPER</b> (DD base 9)	456.3	128 DD	390 DD adult emerge	<b>Reached the DD threshold for local adult emergence</b>
<b>TARNISHED PLANT BUG</b> (DD base 12)	254.3	40 DD		<b>Past emergence threshold</b>

DATE	TEMPERATURE (°C)		ACCUMULATED RAINFALL (mm)
	MAX	MIN	
10 July	27.5	9.0	0
11 July	27.6	13.4	11.3
12 July	21.9	6.8	0
13 July	21.6	8.3	0

### Disease Forecast

BOTCAST has a cumulative disease severity index (CDSI) of 20. First spray threshold is at CDSI 20-30 and when we have a count of 1 botrytis lesion per leaf. Risk of developing botrytis on onion at this moment is low to moderate. The botrytis lesion count at our station this morning was 0.12 lesions/leaf, which is low. Growers should scout their fields for botrytis leaf blight and apply fungicide spray 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 onions is 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. Downy mildew of onions has been found on onions around the Holland Marsh.

BREMCAS 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. Downy mildew has been found on lettuce at our research station.

