



## MUCK CROPS RESEARCH STATION IPM 2009

### Forecasting / weather information as of July 24, 2009

MODELS	CUM DEGREE DAYS	THRESHOLDS		COMMENTS:
		ONE	TWO	
Standard Growing Degree Day Model:				
<b>GROWING DEGREE DAYS</b> (DD base 5)	915.0	not applicable	not applicable	
Insect Degree Day Models:				
<b>CARROT RUST FLY</b> (DD base 3)	1125.6	329-395 DD	1399-1711 DD	<b>Past the 1<sup>st</sup> generation emergence</b>
<b>ONION MAGGOT</b> (DD base 4)	1020	210 DD 1 <sup>st</sup> Gen	1025 DD 2 <sup>nd</sup> Gen	<b>Reached the DD threshold for the 2<sup>st</sup> generation emergence</b>
<b>CARROT WEEVIL</b> (DD base 7)	712.2	138-156 DD	455 DD 90% oviposition	<b>Past the DD threshold for 90% oviposition</b>
<b>LEAF HOPPER</b> (DD base 9)	532.1	128 DD	390 DD adult emerge	<b>Reached the DD threshold for local adult emergence</b>
<b>TARNISHED PLANT BUG</b> (DD base 12)	300.1	40 DD		<b>Past emergence threshold</b>

DATE	TEMPERATURE (°C)		ACCUMULATED RAINFALL (mm)
	MAX	MIN	
21 July	24.7	9.0	0
22 July	23.0	10.9	0
23 July	22.5	16.8	31.25

### Disease Forecast

BOTCAST has a cumulative disease severity index (CDSI) of 28. 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 moderate to high. The botrytis lesion count at our station this morning was 0.04 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 onion downy mildew sporulation infection period occurring in the last 3 days. Risk of downy mildew developing in onions is high. Downy mildew has been found in onions around the Holland Marsh. Growers should start to spray to protect their onions from downy mildew.

BREMCAST predicted sporulation infection period of downy mildew of lettuce in the last 3 days. Risk of downy mildew on lettuce is moderate to high.

