

## MUCK CROPS RESEARCH STATION IPM 2013

### Forecasting / weather information as of July 25, 2013

MODELS	CUM DEGREE DAYS (DD)	THRESHOLDS		COMMENTS:
		ONE	TWO	
Standard Growing Degree Day Model:				
GROWING DEGREE DAYS (DD base 5)	1165.4	not applicable	not applicable	
Insect Degree Day Models:				
<b>CARROT RUST FLY</b> (DD base 3)	1412.2	329-395 DD	1399-1711 DD	<b>Reached DD threshold for the 2<sup>nd</sup> generation emergence</b>
<b>ONION MAGGOT</b> (DD base 4)	1306.9	210 DD 1 <sup>st</sup> Gen	1025 DD 2 <sup>nd</sup> Gen	<b>Reached DD threshold for the 2<sup>nd</sup> generation emergence</b>
<b>ASTER LEAFHOPPER</b> (DD base 9)	826.9	128 DD	390 DD adult emerge	<b>Reached DD threshold for local adult emergence</b>
<b>TARNISHED PLANT BUG</b> (DD base 12)	575.8	40 DD		<b>Reached DD threshold for emergence</b>

### Disease forecast

**BOTCAST:** The cumulative disease severity index (CDSI) for botrytis leaf blight is 26. Risk of botrytis leaf blight at this time is moderate to high.

**DOWNCAST** predicted sporulation infection periods in the last 3 days. Taking into account the weather forecast and crop canopy size, risk of downy mildew on onions is moderate to high.

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

DATE (July, 2013)	TEMPERATURE (°C)		ACCUMULATED RAINFALL (mm)
	MAX	MIN	
22	24.9	11.3	0
23	28.5	12.6	0
24	21.5	10.9	0

### Soil Temperatures

July 24: 5 cm = 18.6°C; 10 cm = 19.5°C; 20 cm = 20.1°C