

## MUCK CROPS RESEARCH STATION IPM 2013

### Forecasting / weather information as of June 18, 2013

MODELS	CUM DEGREE DAYS (DD)	THRESHOLDS		COMMENTS:
		ONE	TWO	
Standard Growing Degree Day Model:				
GROWING DEGREE DAYS (DD base 5)	580.4	not applicable	not applicable	
Insect Degree Day Models:				
<b>CARROT RUST FLY</b> (DD base 3)	713.4	329-395 DD	1399-1711 DD	<b>Past DD threshold for the 1<sup>st</sup> generation emergence</b>
<b>ONION MAGGOT</b> (DD base 4)	645.1	210 DD 1 <sup>st</sup> Gen	1025 DD 2 <sup>nd</sup> Gen	<b>Past DD threshold for the 1<sup>st</sup> generation emergence</b>
<b>CARROT WEEVIL</b> (DD base 7)	457.9	138-156 DD Oviposition	455 DD 90% oviposition	<b>Reached DD threshold to start laying eggs</b>
<b>ASTER LEAFHOPPER</b> (DD base 9)	350.0	128 DD	390 DD adult emerge	<b>Closer to the DD threshold for adult emergence</b>
<b>TARNISHED PLANT BUG</b> (DD base 12)	209.9	40 DD		<b>Reached DD threshold for emergence</b>

DATE (June,2013)	TEMPERATURE (°C)		ACCUMULATED RAINFALL (mm)
	MAX	MIN	
13	23.8	13.9	2.1
14	20.8	10.2	0
15	26.2	6.9	0
16	25.7	14.5	4.9
17	22.7	12.9	1

### Soil Temperatures

June 17: 5 cm = 18.6°C; 10 cm = 18.1°C; 20 cm = 16.7°C

We have begun our disease forecasting for botrytis leaf blight of onion, downy mildew of onion and lettuce. The cumulative disease severity index (CDSI) for botrytis leaf blight is 11 and thus risk low. Risk of downy mildew in onions and lettuce is currently low to moderate.