

## MUCK CROPS RESEARCH STATION IPM 2013

### Forecasting / weather information as of September 11, 2013

MODELS	CUM DEGREE DAYS (DD)	THRESHOLDS		COMMENTS:
		ONE	TWO	
Standard Growing Degree Day Model:				
GROWING DEGREE DAYS (DD base 5)	1866.0	not applicable	not applicable	
Insect Degree Day Models:				
<b>CARROT RUST FLY</b> (DD base 3)	2168.9	329-395 DD	1399-1711 DD	<b>Past DD threshold for the 2<sup>nd</sup> generation emergence</b>
<b>ONION MAGGOT</b> (DD base 4)	2015.6	210 DD 1 <sup>st</sup> Gen	1025 DD 2 <sup>nd</sup> Gen	<b>Past DD threshold for the 2<sup>nd</sup> generation emergence</b>
<b>ASTER LEAFHOPPER</b> (DD base 9)	1295.6	128 DD	390 DD adult emerge	<b>Past DD threshold for local adult emergence</b>
<b>TARNISHED PLANT BUG</b> (DD base 12)	900.5	40 DD		<b>Past DD threshold for emergence</b>

### Disease forecast

Risk of downy mildew on lettuce is moderate to high. Downy mildew has been confirmed on lettuce in the Holland Marsh.

DATE (September, 2013)	TEMPERATURE (°C)		ACCUMULATED RAINFALL (mm)
	MAX	MIN	
04	25.3	10.4	0
05	17.4	5.2	0
06	23.8	2.4	0
07	21.9	13.2	17.8
08	21.1	7.9	0.1
09	23.3	6.1	0
10	35.3	17.5	0

### Soil Temperatures

September 10: 10 cm = 19.5°C; 20 cm = 17.6°C