

MUCK CROPS RESEARCH STATION IPM 2013

Forecasting / weather information as of August 22, 2013

MODELS	CUM DEGREE DAYS (DD)	THRESHOLDS		COMMENTS:
		ONE	TWO	
Standard Growing Degree Day Model:				
GROWING DEGREE DAYS (DD base 5)	1580.1	not applicable	not applicable	
Insect Degree Day Models:				
CARROT RUST FLY (DD base 3)	1843.1	329-395 DD	1399-1711 DD	Reached DD threshold for the 2nd generation emergence
ONION MAGGOT (DD base 4)	1709.8	210 DD 1 st Gen	1025 DD 2 nd Gen	Past DD threshold for the 2nd generation emergence
ASTER LEAFHOPPER (DD base 9)	1089.8	128 DD	390 DD adult emerge	Reached DD threshold for local adult emergence
TARNISHED PLANT BUG (DD base 12)	754.6	40 DD		Reached DD threshold for emergence

Disease forecast

BOTCAST: The cumulative disease severity index (CDSI) for botrytis leaf blight is 40. Risk of botrytis leaf blight at this time is moderate to high.

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

Risk of downy mildew on lettuce is moderate to high. Risk may increase if it rains, if the crop is close to maturity and/or if the downy mildew is already present in the field. Downy mildew has been confirmed on lettuce in the Holland Marsh.

DATE (August , 2013)	TEMPERATURE (°C)		ACCUMULATED RAINFALL (mm)
	MAX	MIN	
19	29.6	11.1	0
20	30.4	11.9	0
21	31.7	20.4	0

Soil Temperatures

August 21: 5 cm = 26.1°C; 10 cm = 19.2°C; 20 cm = 18.1°C