

MUCK CROPS RESEARCH STATION IPM 2013

Forecasting / weather information as of July 18, 2013

MODELS	CUM DEGREE DAYS (DD)	THRESHOLDS		COMMENTS:
		ONE	TWO	
Standard Growing Degree Day Model:				
GROWING DEGREE DAYS (DD base 5)	1089.6	not applicable	not applicable	
Insect Degree Day Models:				
CARROT RUST FLY (DD base 3)	1282.6	329-395 DD	1399-1711 DD	Past DD threshold for the 1st generation emergence
ONION MAGGOT (DD base 4)	1184.3	210 DD 1 st Gen	1025 DD 2 nd Gen	Reached DD threshold for the 2nd generation emergence
ASTER LEAFHOPPER (DD base 9)	719.3	128 DD	390 DD adult emerge	Reached DD threshold for local adult emergence
TARNISHED PLANT BUG (DD base 12)	509.1	40 DD		Reached DD threshold for emergence

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.

DOWNCAST predicted no sporulation infection period in the last 3 days. Taking into account the weather forecast and crop canopy size, risk of downy mildew on onions is low to moderate. Risk may increase if leaves remain wet for longer periods and the temperature cools down.

BREMCAST predicted no sporulation infection period in the last 3 days. Risk of downy mildew of lettuce is moderate.

DATE (July, 2013)	TEMPERATURE (°C)		ACCUMULATED RAINFALL (mm)
	MAX	MIN	
15	32.8	18.1	0
16	33.8	19.4	0
17	35.3	21.2	0

Soil Temperatures

July 17: 5 cm = 26.6°C; 10 cm = 25.0°C; 20 cm = 22.2°C