



MUCK CROPS RESEARCH STATION IPM 2009

Forecasting / weather information as of July 28, 2009

MODELS	CUM DEGREE DAYS	THRESHOLDS		COMMENTS:
		ONE	TWO	
Standard Growing Degree Day Model:				
GROWING DEGREE DAYS (DD base 5)	973.8	not applicable	not applicable	
Insect Degree Day Models:				
CARROT RUST FLY (DD base 3)	1192.3	329-395 DD	1399-1711 DD	Approaching the DD threshold for 2nd generation emergence
ONION MAGGOT (DD base 4)	1082.8	210 DD 1 st Gen	1025 DD 2 nd Gen	Reached the DD threshold for the 2st generation emergence
CARROT WEEVIL (DD base 7)	762.9	138-156 DD	455 DD 90% oviposition	Past the DD threshold for 90% oviposition
LEAF HOPPER (DD base 9)	574.8	128 DD	390 DD adult emerge	Past the DD threshold for local adult emergence
TARNISHED PLANT BUG (DD base 12)	330.8	40 DD		Past emergence threshold

DATE	TEMPERATURE (°C)		ACCUMULATED RAINFALL (mm)
	MAX	MIN	
24 July	24.4	15.8	0.25
25 July	22.5	16.0	17
26 July	23.6	14.3	5.75
27 July	25.1	15.8	0.25

Disease Forecast

BOTCAST has a cumulative disease severity index (CDSI) of 32. Risk of developing botrytis on onion at this moment is moderate to high although lesion counts remain low. Growers should monitor their fields regularly for botrytis leaf blight and apply fungicide spray if their field has more than 1 lesion/leaf.

DOWNCAST has predicted onion downy mildew sporulation infection periods occurred in the last 4 days. Risk of downy mildew development is high. Downy mildew has been found in onions around the Holland Marsh.

BREMCAST predicted sporulation infection period of downy mildew of lettuce in the last 4 days. Risk of downy mildew on lettuce is moderate to high.

