



Science For A Better Life

MUCK CROPS RESEARCH STATION IPM 2017

Forecasting / weather information as of June 19, 2017

MODELS	CUM DEGREE DAYS	THRESHOLDS		COMMENTS:
		ONE	TWO	
Standard Growing Degree Day Model (Start April 1, 2017):				
GROWING DEGREE DAYS (DD base 5)	573	not applicable	not applicable	
Insect Degree Day Models:				
CARROT RUST FLY (DD base 3)	725	329-395 DD	1399-1711 DD	
ONION MAGGOT (DD base 4)	648	210 DD 1 st Gen	1025 DD 2 nd Gen	
CARROT WEEVIL (DD base 7)	434	138-156 DD Oviposition	455 DD 90% oviposition	Oviposition almost 90% complete.
ASTER LEAFHOPPER (DD base 9)	318	128 DD	390 DD adult emerge	Nearing adult emergence.
TARNISHED PLANT BUG (DD base 12)	186	40 DD		Active, adults possible
CABBAGE MAGGOT (DD base 6)	500	314 DD 1 st Gen	847 DD 2 nd Gen	First gen.
SEEDCORN MAGGOT (DD base 4)	648	200 DD 1 st Gen	600 DD 2 nd Gen	2nd gen.

Disease Forecasting

BOTCAST – Cumulative disease severity index (CDSI) for botrytis currently at 15, therefore risk is currently low.

DOWNCAST – No sporulation has occurred, meaning risk of downy mildew on onion is low.

BREMCAST – There have been no sporulation infection periods (SIP) for downy mildew on lettuce in the past four days, meaning risk is low.

TOMCAST – CDSI of 16.

Soil Temperatures:

June 18: 5 cm – 21.3
 10 cm – 21.0
 20 cm – 19.8

DATE (June, 2017)	TEMPERATURE (°C)		ACCUMULATED RAINFALL (mm)
	MAX	MIN	
15	25.5	10.4	10.0
16	22.4	12.9	0
17	29.8	14.3	33.2
18	27.8	17.5	4.6

