



Science For A Better Life

MUCK CROPS RESEARCH STATION IPM 2017

Forecasting / weather information as of August 4, 2017

MODELS	CUM DEGREE DAYS	THRESHOLDS		COMMENTS:
		ONE	TWO	
Standard Growing Degree Day Model (Start April 1, 2017):				
GROWING DEGREE DAYS (DD base 5)	1276	not applicable	not applicable	
Insect Degree Day Models:				
CARROT RUST FLY (DD base 3)	1520	329-395 DD	1399-1711 DD	2nd gen. active
ONION MAGGOT (DD base 4)	1397	210 DD 1 st Gen	1025 DD 2 nd Gen	2nd gen. active
CARROT WEEVIL (DD base 7)	1014	138-156 DD Oviposition	455 DD 90% oviposition	Oviposition 90% complete
ASTER LEAFHOPPER (DD base 9)	837	128 DD	390 DD adult emerge	Adults present
TARNISHED PLANT BUG (DD base 12)	566	40 DD		Active
CABBAGE MAGGOT (DD base 6)	1157	314 DD 1 st Gen	847 DD 2 nd Gen	2nd gen. active
SEEDCORN MAGGOT (DD base 4)	1397	200 DD 1 st Gen	600 DD 2 nd Gen	

Disease Forecasting

BOTCAST – Cumulative disease severity index (CDSI) for botrytis currently at 68, risk is moderate.

DOWNCAST – Two sporulation periods and four infection periods in the past four days, risk is moderate to high.

BREMCAST – There have been three sporulation infection period (SIP) for downy mildew on lettuce in the past four days, meaning risk is moderate.

TOMCAST – CDSI of 86.

Soil Temperatures:

July 31: 5 cm – 23.3

10 cm – 23.0

20 cm – 22.4

DATE (August, 2017)	TEMPERATURE (°C)		ACCUMULATED RAINFALL (mm)
	MAX	MIN	
1	29.9	14.6	1.8
2	30.8	14.6	5.4
3	29.3	15.0	0.0

