



Science For A Better Life

MUCK CROPS RESEARCH STATION IPM 2017

Forecasting / weather information as of August 11, 2017

MODELS	CUM DEGREE DAYS	THRESHOLDS		COMMENTS:
		ONE	TWO	
Standard Growing Degree Day Model (Start April 1, 2017):				
GROWING DEGREE DAYS (DD base 5)	1358	not applicable	not applicable	
Insect Degree Day Models:				
CARROT RUST FLY (DD base 3)	1613	329-395 DD	1399-1711 DD	2nd gen. active
ONION MAGGOT (DD base 4)	1484	210 DD 1 st Gen	1025 DD 2 nd Gen	2nd gen. active
CARROT WEEVIL (DD base 7)	1114	138-156 DD Oviposition	455 DD 90% oviposition	
ASTER LEAFHOPPER (DD base 9)	895	128 DD	390 DD adult emerge	
TARNISHED PLANT BUG (DD base 12)	606	40 DD		
CABBAGE MAGGOT (DD base 6)	1232	314 DD 1 st Gen	847 DD 2 nd Gen	
SEEDCORN MAGGOT (DD base 4)	1484	200 DD 1 st Gen	600 DD 2 nd Gen	

Disease Forecasting

BOTCAST – Cumulative disease severity index (CDSI) for botrytis currently at 78, risk is moderate.

DOWNCAST – One sporulation period and one infection period in the past four days. Rainfall limited sporulation and leaf wetness limited infection. Since downy mildew is present, risk is still moderate as these conditions are variable depending on the specific field..

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

TOMCAST – CDSI of 95.

Soil Temperatures:

Aug 11: 5 cm – 21.6
10 cm – 21.8
20 cm – 20.8

DATE (August, 2017)	TEMPERATURE (°C)		ACCUMULATED RAINFALL (mm)
	MAX	MIN	
8	21.9	13.6	0.2
9	26.3	10.2	1.6
10	28.0	12.7	0.0

