



MUCK CROPS RESEARCH STATION IPM 2014

Forecasting / weather information as of July 10, 2014

MODELS	CUM DEGREE DAYS	THRESHOLDS		COMMENTS:
		ONE	TWO	
Standard Growing Degree Day Model:				
GROWING DEGREE DAYS (DD base 5)	903.9	not applicable	not applicable	
Insect Degree Day Models:				
CARROT RUST FLY (DD base 3)	1087.3	329-395 DD	1399-1711 DD	Getting closer to the 2nd generation threshold
ONION MAGGOT (DD base 4)	993.8	210 DD 1 st Gen	1025 DD 2 nd Gen	Very close to the 2nd generation threshold
CARROT WEEVIL (DD base 7)	732.5	138-156 DD Oviposition	455 DD 90% Oviposition	Well past egg-laying threshold
ASTER LEAFHOPPER (DD base 9)	582.0	128 DD eggs hatch	390 DD adult emerge	Adult emergence threshold reached
TARNISHED PLANT BUG (DD base 12)	388.7	40 DD		Reached threshold for adult emergence

DATE (July,2013)	TEMPERATURE (°C)		ACCUMULATED RAINFALL (mm)
	MAX	MIN	
7	29.72	18.83	18.2
8	26.4	14.49	18.6
9	22.73	10.76	0

Soil Temperatures

July 10: 10 cm = 21.9, 20 cm = 18.1°C

BOTCAST: The cumulative disease severity index (CDSI) for botrytis leaf blight is 17. 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 transplanted onions is moderate and low to moderate on seeded onions.

BREMCAST predicted one sporulation infection periods in the last 3 days. Risk of downy mildew of lettuce is moderate.

