



MUCK CROPS RESEARCH STATION IPM 2013

Forecasting / weather information as of May 17, 2013

| MODELS | CUM DEGREE DAYS | THRESHOLDS | | COMMENTS: |
|--|-----------------------|-------------------------------|--------------------------------|---|
| | | ONE | TWO | |
| Standard Growing Degree Day Model: | | | | |
| GROWING DEGREE DAYS (DD base 5) | 217.8 | not applicable | not applicable | |
| Insect Degree Day Models: | | | | |
| CARROT RUST FLY (DD base 3) | 286.8 | 329-395 DD | 1399-1711 DD | Closer to the 1st generation emergence |
| ONION MAGGOT (DD base 4) | 250.4 | 210 DD 1 st Gen | 1025 DD 2 nd Gen | Reached the DD threshold for the 1st generation emergence |
| CARROT WEEVIL (DD base 7) | 158.4 | 138-156 DD Oviposition | 455 DD 90% oviposition | Reached the DD threshold to start laying eggs |
| ASTER LEAFHOPPER (DD base 9) | 110.8 | 128 DD | 390 DD adult emerge | Closer to hatching of the over wintered eggs. |
| TARNISHED PLANT BUG (DD base 12) | 57.1 | 40 DD | | Reached the DD threshold for emergence |

| DATE (May,2013) | TEMPERATURE (°C) | | ACCUMULATED RAINFALL (mm) |
|-----------------|------------------|-----|---------------------------|
| | MAX | MIN | |
| 13 | 10.8 | 1.5 | 0 |
| 14 | 12.9 | 0 | 0 |
| 15 | 24.9 | 7.0 | 1.5 |
| 16 | 22.3 | 5.1 | 0 |

Soil Temperatures

May 16: 5 cm = 11.3°C; 10 cm = 10.6°C; 20 cm = 7.8°C

