



MUCK CROPS RESEARCH STATION IPM 2016

Forecasting / weather information as of June 21, 2016

| MODELS | CUM DEGREE DAYS | THRESHOLDS | | COMMENTS: |
|--|-----------------------|-------------------------------|--------------------------------|--|
| | | ONE | TWO | |
| Standard Growing Degree Day Model: | | | | |
| GROWING DEGREE DAYS (DD base 5) | 590 | not applicable | not applicable | |
| Insect Degree Day Models: | | | | |
| CARROT RUST FLY (DD base 3) | 726 | 329-395 DD | 1399-1711 DD | Passed 1st generation peak |
| ONION MAGGOT (DD base 4) | 657 | 210 DD 1 st Gen | 1025 DD 2 nd Gen | Passed 1st generation |
| CARROT WEEVIL (DD base 7) | 462 | 138-156 DD Oviposition | 455 DD 90% oviposition | Reached 90% oviposition threshold |
| ASTER LEAFHOPPER (DD base 9) | 352 | 128 DD | 390 DD adult emerge | Nearing adult emergence of local pop |
| TARNISHED PLANT BUG (DD base 12) | 226. | 40 DD | | Emerged |
| CABBAGE MAGGOT (DD base 6) | 525 | 314 DD 1 st Gen | 847 DD 2 nd Gen | 1st generation emerged |
| SEEDCORN MAGGOT (DD base 4) | 657 | 200 DD 1 st Gen | 600 DD 2 nd Gen | Reached 2nd generation emergence threshold |

Disease Forecasting

BOTCAST = 14 CDSI

DOWNCAST = no SIP in the last 7 days

BREMCAST = 4 SIP in the last 7 days

Soil Temperatures

June 21: 5 cm = 22.5 °C

10 cm = 20.7 °C

20 cm = 17.5 °C

| DATE (June, 2016) | TEMPERATURE (°C) | | ACCUMULATED RAINFALL (mm) |
|-------------------|------------------|------|------------------------------|
| | MAX | MIN | |
| 16 | 28.8 | 15.7 | 0 |
| 17 | 31.2 | 11.1 | 0 |
| 18 | 32.3 | 11.1 | 0.3 |
| 19 | 33.5 | 13.4 | 0.1 |
| 20 | 34.2 | 19.6 | 0 |

