# MUCK CROPS RESEARCH STATION IPM 2018

**Forecasting / weather information as of June 29, 2018**

| MODELS | CUM DEGREE DAYS | THRESHOLDS | | COMMENTS: |
|---|---|---|---|---|
| | | ONE | TWO | |
| Standard Growing Degree Day Model (Start April 1, 2017): | | | | |
| **GROWING DEGREE DAYS** (DD base 5) | **746** | not applicable | not applicable | |
| Insect Degree Day Models: | | | | |
| **CARROT RUST FLY** (DD base 3) | **884** | 329-395 DD | 1399-1711 DD | **First generation emergence, detected in Holland Marsh** |
| **ONION MAGGOT** (DD base 4) | **813** | 210 DD 1st Gen | 1025 DD 2nd Gen | **First generation complete, damage detected in Holland Marsh** |
| **CARROT WEEVIL** (DD base 7) | **613** | 138-156 DD Oviposition | 455 DD 90% oviposition | **90% oviposition threshold reached** |
| **ASTER LEAFHOPPER** (DD base 9) | **486** | 128 DD | 390 DD adult emerge | **Nearing adults** |
| **TARNISHED PLANT BUG** (DD base 12) | **312** | 40 DD | | **Active, adults detected** |
| **CABBAGE MAGGOT** (DD base 6) | **679** | 314 DD 1st Gen | 847 DD 2nd Gen | **First generation emergence, detected in Holland Marsh** |
| **SEEDCORN MAGGOT** (DD base 4) | **813** | 200 DD 1st Gen | 600 DD 2nd Gen | **First generation emergence, detected in Holland Marsh** |

| DATE (June, 2018) | TEMPERATURE | | RAIN (mm) |
|---|---|---|---|
| | MAX | MIN | |
| 26 | 24.7 | 6.8 | 0 |
| 27 | 22.1 | 16.0 | 5.8 |
| 28 | 29.8 | 18.9 | 0 |

| Disease Model | Cumulative DSI | Change since last report | Comments |
|---|---|---|---|
| BOTCAST (Botrytis leaf blight) | 25 | +7 | Risk is moderate, particularly if rainfall is forecasted or irrigation is planned |
| TOMCAST (Used here for generally favourable disease conditions) | 29 | +6 | Conditions were generally favourable for disease development this week |
| DOWNCAST (Onion downy mildew) | 1 sporulation/infection period | Minor activity | While sporulation was possible, the forecasted dry, hot weather should limit any spread. Risk is low-moderate. |
| BREMCAST (Lettuce downy mildew) | 2 sporulation/infection periods | Some activity | Risk is moderate |