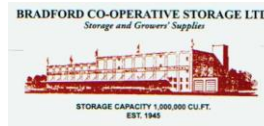




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### MUCK CROPS RESEARCH STATION IPM 2017

#### Forecasting / weather information as of October 5, 2017

| MODELS   | CUM DEGREE DAYS | THRESHOLDS                    |                                | COMMENTS: |
|--|-----------------|-------------------------------|--------------------------------|-----------|
|  |                 | ONE                           | TWO                            |           |
| Standard Growing Degree Day Model (Start April 1, 2017): |                 |                               |                                |           |
| <b>GROWING DEGREE DAYS</b><br>(DD base 5)                | <b>2043</b>     | not applicable                | not applicable                 |           |
| Insect Degree Day Models:                                |                 |                               |                                |           |
| <b>CARROT RUST FLY</b><br>(DD base 3)                    | <b>2409</b>     | 329-395 DD                    | 1399-1711 DD                   |           |
| <b>ONION MAGGOT</b><br>(DD base 4)                       | <b>2225</b>     | 210 DD<br>1 <sup>st</sup> Gen | 1025 DD<br>2 <sup>nd</sup> Gen |           |
| <b>CARROT WEEVIL</b><br>(DD base 7)                      | <b>1690</b>     | 138-156 DD<br>Oviposition     | 455 DD 90%<br>oviposition      |           |
| <b>ASTER LEAFHOPPER</b><br>(DD base 9)                   | <b>1360</b>     | 128 DD                        | 390 DD<br>adult emerge         |           |
| <b>TARNISHED PLANT BUG</b><br>(DD base 12)               | <b>919</b>      | 40 DD                         |                                |           |
| <b>CABBAGE MAGGOT</b><br>(DD base 6)                     | <b>1863</b>     | 314 DD<br>1 <sup>st</sup> Gen | 847 DD<br>2 <sup>nd</sup> Gen  |           |
| <b>SEEDCORN MAGGOT</b><br>(DD base 4)                    | <b>2225</b>     | 200 DD<br>1 <sup>st</sup> Gen | 600 DD<br>2 <sup>nd</sup> Gen  |           |

#### Disease Forecasting

**BOTCAST/DOWNCAST** – Onions are mostly at harvest now.

**BREMCAST** – There has been one sporulation infection periods (SIP) for downy mildew on lettuce in the past week meaning risk is low to moderate.

**TOMCAST** – CDSI of 141.

#### Soil Temperatures:

Oct 5: 5 cm – 13.8  
10 cm – 14.2  
20 cm – 13.9

| DATE (Sept/Oct, 2017) | TEMPERATURE (°C) |      | ACCUMULATED RAINFALL (mm) |
|-----------------------|------------------|------|---------------------------|
|                       | MAX              | MIN  |                           |
| 28                    | 27.1             | 14.2 | 0.0                       |
| 29                    | 16.9             | 7.7  | 0.0                       |
| 30                    | 16.9             | 2.6  | 0.0                       |
| 1                     | 14.7             | 2.7  | 0.0                       |
| 2                     | 19.5             | 0.1  | 0.0                       |
| 3                     | 19.9             | 0.5  | 0.0                       |
| 4                     | 26.0             | 3.4  | 0.0                       |





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