



# Ontario Crops Research Centre – Bradford (Muck Station) IPM Report 2025

Forecasting, weather and degree day information as of 11 August 2025

Standard Growing Degree Day Model (starting 1 April):

| MODELS                          | CUMULATIVE DEGREE DAYS | DEGREE DAYS SINCE LAST REPORT |
|---------------------------------|------------------------|-------------------------------|
| Growing degree days (DD base 5) | 1491                   | 81                            |

Insect Degree Day Models:

| MODELS                                     | CUMULATIVE DEGREE DAYS | THRESHOLD ONE                                 | THRESHOLD TWO                                   | COMMENTS:                                 |
|--|------------------------|---|---|---|
| <b>CARROT RUST FLY</b><br>(DD base 3)      | <b>1738</b>            | Emergence at 329-395 DD (1 <sup>st</sup> gen) | Emergence at 1399-1711 DD (2 <sup>nd</sup> gen) | 2 <sup>nd</sup> gen activity              |
| <b>ONION MAGGOT</b><br>(DD base 4)         | <b>1614</b>            | Emergence at 210 DD (1 <sup>st</sup> gen)     | Emergence at 1025 DD (2 <sup>nd</sup> gen)      | 2 <sup>nd</sup> gen activity slowing down |
| <b>CARROT WEEVIL</b><br>(DD base 7)        | <b>1251</b>            | Egg laying starts at 138-156 DD               | Egg laying 90% complete at 455 DD               | Egg laying period complete                |
| <b>ASTER LEAFHOPPER</b><br>(DD base 9)     | <b>1026</b>            | Nymphs emerge at 128 DD                       | Adults emerge at 390 DD                         | Activity                                  |
| <b>TARNISHED PLANT BUG</b><br>(DD base 12) | <b>729</b>             | Activity can start at 40 DD                   |   | Activity                                  |
| <b>CABBAGE MAGGOT</b><br>(DD base 6)       | <b>1368</b>            | Emergence at 314 DD (1 <sup>st</sup> gen)     | Emergence at 847 DD (2 <sup>nd</sup> gen)       | Some activity                             |
| <b>SEEDCORN MAGGOT</b><br>(DD base 4)      | <b>1614</b>            | Emergence at 200 DD (1 <sup>st</sup> gen)     | Emergence at 600 DD (2 <sup>nd</sup> gen)       | Activity                                  |



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## Disease Forecasting

| Disease model                            | Cumulative DSI                            | Change since last report | Comments  |
|--|---|--------------------------|---|
| BOTCAST (Botrytis leaf blight)           | 92  | +3                       | Low risk  |
| DOWNCAST (Onion downy mildew)            | No sporulation-infection periods          | Same                     | Low risk, too hot                                   |
| BSPCAST (Stemphylium leaf blight)        | Favourable conditions on 4/4 days         | Increased                | High risk. Lesions are sporulating as well.         |
| White Rot on Onions                      | 0   | -6                       | Low to moderate risk, has been found                |
| Sclerotinia (White Mold) on Carrot       | 0   | -                        | Low risk. Canopies starting to close in but too dry |
| TOMCAST (General conditions for disease) | 121                                       | +9                       | High risk   |
| BREMCAS (Lettuce downy mildew)           | Sporulation-infection periods on 1/4 days | Same                     | Moderate risk                                       |

## Daily Weather

| Date (August) | Max temperature (°C) | Min temperature (°C) | Rain (mm) |
|---------------|----------------------|----------------------|-----------|
| 7             | 29.3                 | 16.6                 | 0.0       |
| 8             | 29.5                 | 15.4                 | 0.0       |
| 9             | 33.5                 | 16.1                 | 0.0       |
| 10            | 34.2                 | 17.8                 | 0.0       |

Soil Temperature (°C): 5cm: 24.0



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