



# Ontario Crops Research Centre – Bradford (Muck Station) IPM Forecasting 2026

Forecasting, weather and degree day information as of August 24

Standard Growing Degree Day Model (starting 1 April):

| MODELS                          | CUMULATIVE DEGREE DAYS | DEGREE DAYS SINCE LAST REPORT |
|---------------------------------|------------------------|-------------------------------|
| Growing degree days (DD base 5) | 1634                   | 51                            |

Insect Degree Day Models:

| MODELS                                     | CUMULATIVE DEGREE DAYS | THRESHOLD ONE                                 | THRESHOLD TWO                                   | COMMENTS:                    |
|--------------------------------------------|------------------------|-----------------------------------------------|-------------------------------------------------|------------------------------|
| <b>CARROT RUST FLY</b><br>(DD base 3)      | <b>1900</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>1766</b>            | Emergence at 210 DD (1 <sup>st</sup> gen)     | Emergence at 1025 DD (2 <sup>nd</sup> gen)      | Activity decreasing          |
| <b>CARROT WEEVIL</b><br>(DD base 7)        | <b>1380</b>            | Egg laying starts at 138-156 DD               | Egg laying 90% complete at 455 DD               | End of egg laying period     |
| <b>ASTER LEAFHOPPER</b><br>(DD base 9)     | <b>1139</b>            | Nymphs emerge at 128 DD                       | Adults emerge at 390 DD                         | Activity                     |
| <b>TARNISHED PLANT BUG</b><br>(DD base 12) | <b>806</b>             | Activity can start at 40 DD                   |                                                 | Activity                     |
| <b>CABBAGE MAGGOT</b><br>(DD base 6)       | <b>1506</b>            | Emergence at 314 DD (1 <sup>st</sup> gen)     | Emergence at 847 DD (2 <sup>nd</sup> gen)       | Activity decreasing          |
| <b>SEEDCORN MAGGOT</b><br>(DD base 4)      | <b>1766</b>            | Emergence at 200 DD (1 <sup>st</sup> gen)     | Emergence at 600 DD (2 <sup>nd</sup> gen)       | Activity decreasing          |



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## Disease Forecasting:

| Disease model                            | Cumulative DSI                              | Change since last report | Comments                                                                                           |
|------------------------------------------|---------------------------------------------|--------------------------|----------------------------------------------------------------------------------------------------|
| BOTCAST (Botrytis leaf blight)           | 123                                         | +8                       | Low risk                                                                                           |
| DOWNCAST (Onion downy mildew)            | Sporulation-infection periods on 0/4 days   | Same                     | High risk, sporulation infection periods last week and sporangia caught in spore traps             |
| BSPCAST (Stemphylium leaf blight)        | Conditions have been favourable on 4/4 days | Same                     | High risk. Stemphylium symptoms developing further and lots of conidia being caught in spore traps |
| White Rot on Onions                      | 4                                           | +4                       | Low risk                                                                                           |
| Sclerotinia (White Mold) on Carrot       | 12                                          | +2                       | Moderate risk. White mold has been found                                                           |
| TOMCAST (General conditions for disease) | 171                                         | +9                       | High risk                                                                                          |
| BREMCAST (Lettuce downy mildew)          | Sporulation-infection periods on 4/4 days   | Same                     | High risk                                                                                          |

## Daily Weather

| Date (August) | Max temperature (°C) | Min temperature (°C) | Rain (mm) |
|---------------|----------------------|----------------------|-----------|
| 20            | 25.6                 | 9.4                  | 0.0       |
| 21            | 26.3                 | 9.3                  | 0.0       |
| 22            | 26.1                 | 16.1                 | 9.8       |
| 23            | 20.2                 | 13.9                 | 12.6      |

Soil Temperature (°C): 5cm: 18.3



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