



IMPROVE LIFE.



Ontario Crops Research Centre – Bradford (Muck Station) IPM Report 2024

Forecasting, weather and degree day information as of 1 August 2024

Standard Growing Degree Day Model (starting 1 April):

| MODELS | CUMULATIVE DEGREE DAYS | DEGREE DAYS SINCE LAST REPORT |
|--|------------------------|-------------------------------|
| Growing degree days (DD base 5) | 1369 | 62 |

Insect Degree Day Models:

| MODELS | CUMULATIVE DEGREE DAYS | THRESHOLD ONE | THRESHOLD TWO | COMMENTS: |
|--|------------------------|---|---|-------------------------------------|
| CARROT RUST FLY (DD base 3) | 1607 | Emergence at 329-395 DD (1 st gen) | Emergence at 1399-1711 DD (2 nd gen) | 2 nd generation activity |
| ONION MAGGOT (DD base 4) | 1486 | Emergence at 210 DD (1 st gen) | Emergence at 1025 DD (2 nd gen) | 2 nd generation activity |
| CARROT WEEVIL (DD base 7) | 1145 | Egg laying starts at 138-156 DD | Egg laying 90% complete at 455 DD | Egg laying period has ended |
| ASTER LEAFHOPPER (DD base 9) | 931 | Nymphs emerge at 128 DD | Adults emerge at 390 DD | Activity |
| TARNISHED PLANT BUG (DD base 12) | 631 | Activity can start at 40 DD | | Activity |
| CABBAGE MAGGOT (DD base 6) | 1255 | Emergence at 314 DD (1 st gen) | Emergence at 847 DD (2 nd gen) | 2 nd generation activity |
| SEEDCORN MAGGOT (DD base 4) | 1486 | Emergence at 200 DD (1 st gen) | Emergence at 600 DD (2 nd gen) | 2 nd generation activity |





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Disease Forecasting

| Disease model | Cumulative DSI | Change since last report | Comments |
|--|---|--------------------------|---|
| BOTCAST (Botrytis leaf blight) | 207 | +4 | Low risk. No spores trapped. |
| DOWNCAST (Onion downy mildew) | Sporulation-infection periods on 0/3 days | Moderate risk | Moderate risk. Downy mildew found and spores identified but conditions are not very favourable for development. |
| BSPCAST (Stemphylium leaf blight) | Favourable conditions on 1/3 days | Slightly increased risk | Moderate-High risk |
| White Rot on Onions | 0 | -3 | Low risk |
| Sclerotinia (White Mold) on Carrot | 0 | - | Low risk. Canopies starting to close in. |
| TOMCAST (General conditions for disease) | 181 | +7 | High risk |
| BREMCAST (Lettuce downy mildew) | Sporulation-infection periods on 1/3 days | Decreased risk | Moderate risk |

Daily Weather

| Date (July) | Max temperature (°C) | Min temperature (°C) | Rain (mm) |
|-------------|----------------------|----------------------|-----------|
| 29 | 32.1 | 12.0 | 0.0 |
| 30 | 29.9 | 19.4 | 1.0 |
| 31 | 31.8 | 20.2 | 3.2 |

Soil Temperature (°C): 5cm: 23.4

