



IMPROVE LIFE.



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

Forecasting, weather and degree day information as of 24 June 2024

Standard Growing Degree Day Model (starting 1 April):

| MODELS | CUMULATIVE DEGREE DAYS | DEGREE DAYS SINCE LAST REPORT |
|--|------------------------|-------------------------------|
| Growing degree days (DD base 5) | 763 | 65 |

Insect Degree Day Models:

| MODELS | CUMULATIVE DEGREE DAYS | THRESHOLD ONE | THRESHOLD TWO | COMMENTS: |
|--|------------------------|---|---|---|
| CARROT RUST FLY (DD base 3) | 925 | Emergence at 329-395 DD (1 st gen) | Emergence at 1399-1711 DD (2 nd gen) | Activity |
| ONION MAGGOT (DD base 4) | 842 | Emergence at 210 DD (1 st gen) | Emergence at 1025 DD (2 nd gen) | Activity |
| CARROT WEEVIL (DD base 7) | 615 | Egg laying starts at 138-156 DD | Egg laying 90% complete at 455 DD | Weevils are around the end of their egg laying period |
| ASTER LEAFHOPPER (DD base 9) | 477 | Nymphs emerge at 128 DD | Adults emerge at 390 DD | Adult emergence |
| TARNISHED PLANT BUG (DD base 12) | 291 | Activity can start at 40 DD | | Activity |
| CABBAGE MAGGOT (DD base 6) | 687 | Emergence at 314 DD (1 st gen) | Emergence at 847 DD (2 nd gen) | Activity |
| SEEDCORN MAGGOT (DD base 4) | 842 | 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) | 136 | +6 | Low risk. No spores trapped. |
| DOWNCAST (Onion downy mildew) | No sporulation-infection periods | - | Low risk |
| BSPCAST (Stemphylium leaf blight) | Favourable conditions on 4/4 days | Risk increased | High risk |
| White Rot on Onions | 0 | - | Low risk |
| Sclerotinia (White Mold) on Carrot | 0 | - | Low risk |
| TOMCAST (General conditions for disease) | 95 | +9 | High risk |
| BREMCAST (Lettuce downy mildew) | Sporulation-infection periods on 0/4 days | Risk remains low | Low risk |

Daily Weather

| Date (June) | Max temperature (°C) | Min temperature (°C) | Rain (mm) |
|-------------|----------------------|----------------------|-----------|
| 20 | 30.2 | 20.7 | 9.4 |
| 21 | 25.7 | 19.8 | 23.6 |
| 22 | 24.8 | 19.2 | 14.4 |
| 23 | 25.7 | 17.3 | 0.2 |

Soil Temperature (°C): 5cm: 21.2

