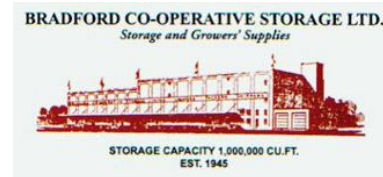




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Ontario Crops Research Centre – Bradford (Muck Station) IPM Report 2023

Forecasting, weather and degree day information as of 10 May 2023

Standard Growing Degree Day Model (starting 1 April):

| MODELS | CUMULATIVE DEGREE DAYS | DEGREE DAYS SINCE LAST REPORT |
|---------------------------------|------------------------|-------------------------------|
| Growing degree days (DD base 5) | 177 | - |

Insect Degree Day Models:

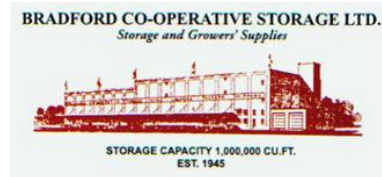
| MODELS | CUMULATIVE DEGREE DAYS | THRESHOLD ONE | THRESHOLD TWO | COMMENTS: |
|--|------------------------|---|---|---|
| CARROT RUST FLY (DD base 3) | 249 | Emergence at 329-395 DD (1 st gen) | Emergence at 1399-1711 DD (2 nd gen) | Emergence not expected yet |
| ONION MAGGOT (DD base 4) | 212 | Emergence at 210 DD (1 st gen) | Emergence at 1025 DD (2 nd gen) | Emergence expected |
| CARROT WEEVIL (DD base 7) | 119 | Egg laying starts at 138-156 DD | Egg laying 90% complete at 455 DD | Carrot weevils have been identified. Activity expected to increase soon |
| ASTER LEAFHOPPER (DD base 9) | 80 | Nymphs emerge at 128 DD | Adults emerge at 390 DD | Emergence not expected yet |
| TARNISHED PLANT BUG (DD base 12) | 45 | Activity can start at 40 DD | | Activity expected |
| CABBAGE MAGGOT (DD base 6) | 145 | Emergence at 314 DD (1 st gen) | Emergence at 847 DD (2 nd gen) | Emergence not expected yet |
| SEEDCORN MAGGOT (DD base 4) | 212 | Emergence at 200 DD (1 st gen) | Emergence at 600 DD (2 nd gen) | Emergence expected |

Disease Forecasting has begun and will be updated as crops start to develop.





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Daily Weather

| Date (May) | Max temperature (°C) | Min temperature (°C) | Rain (mm) |
|------------|----------------------|----------------------|-----------|
| 1 | 9.7 | 4.4 | 1.2 |
| 2 | 7.7 | 3.1 | 5.8 |
| 3 | 9.9 | 3.1 | 8.0 |
| 4 | 13.2 | 3.9 | 0.0 |
| 5 | 19.1 | 4.4 | 0.2 |
| 6 | 20.72 | 1.37 | 0 |
| 7 | 17.15 | 5.15 | 6.4 |
| 8 | 18.49 | 4.56 | 0 |
| 9 | 19.48 | 2.1 | 0 |

Soil Temperature (°C): 5cm: 11.2

