



Tuesday, September 24, 2019

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Nova Fungicide label expanded via Minor Use Program for control of powdery mildew on globe artichokes and greenhouse eggplant in Canada

J. Chaput, Minor Use Coordinator, OMAFRA



The Pest Management Regulatory Agency (PMRA) recently announced the approval of URMULE registrations for **Nova™ Fungicide** for control of powdery mildew on globe artichokes and greenhouse eggplant in Canada. Nova™ Fungicide was already labeled for use on a number of crops in Canada for control of several diseases.

These minor use projects were submitted by Ontario's minor use program as a result of minor use priorities established by growers and extension personnel.

“In This Issue”

- ♦ Nova Fungicide label expanded via Minor Use Program for control of powdery mildew on globe artichokes and greenhouse eggplant in Canada
- ♦ VCR – Vegetable Crop Report – September 19, 2019

The following is provided as an abbreviated, general outline only. Users should be making pest management decisions within a robust integrated pest management program and should consult the complete label before using **Nova™ Fungicide**.

Crop(s)	Target	Rate (g/ha)	Application Information	PHI (days)
Globe Artichokes	Powdery mildew (<i>Erysiphe cichoracearum</i> ; <i>Leveillula taurica</i>)	280	Begin applications when disease first appears or when conditions favor disease development. Repeat application at 14-day intervals and a maximum of 6 applications per year. For best results use a minimum of 1000 L of spray volume.	3
Greenhouse Eggplant	Powdery mildew (<i>Leveillula taurica</i> ; <i>Oidium neolycopersici</i>)	340	Begin application as soon as possible after initial infection. Maximum 1 application per crop cycle. Apply as a foliar spray in a maximum spray volume of 1000 L water/ha.	3

Nova Fungicide label expanded via Minor Use Program for control of powdery mildew on globe artichokes and greenhouse eggplant in Canada...con't

Nova™ Fungicide is toxic to birds, small wild mammals, aquatic organisms and non-target terrestrial plants. The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (i.e. sandy soil) and/or the depth to the water table is shallow. Do not contaminate aquatic habitats when spraying or when cleaning and rinsing spray equipment or containers.

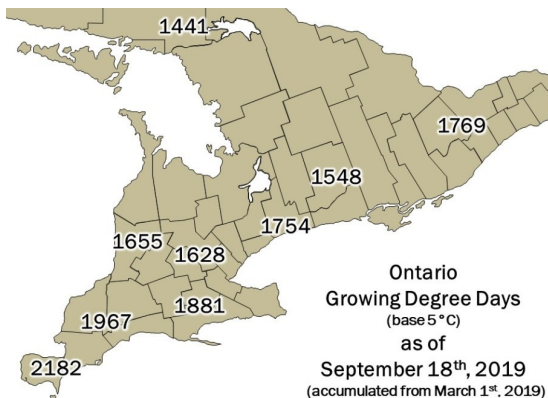
Follow all other precautions and directions for use on the Nova™ Fungicide label carefully.

For a copy of the new minor use label contact your local crop specialist, regional supply outlet or visit the PMRA label site <https://www.canada.ca/en/health-canada/services/consumer-product-safety/pesticides-pest-management/registrants-applicants/tools/pesticide-label-search.html>

Note: This article is not intended to be an endorsement or recommendation for this particular product, but rather a notice of registration activity

VCR – Vegetable Crop Report – September 19, 2019

The VCR (vegetable crop report) is a weekly update which includes crop updates, weather and growing degree summaries for various vegetable growing regions across Ontario.



Temperature – Degree day values continued to steadily grow this week despite cooler daytime and night temperatures. Chatham and Essex, have continued to stay on track with their average degree day accumulation while the remaining growing regions continue to accumulate below their average values.

Rainfall – Precipitation continued this week with all region receiving rainfall. Most regions are at, or above the halfway point of their respective precipitation averages. Essex county in particular is quickly approaching its monthly average, and on its way to exceed it should rainfall continue in the region. Continue (when possible) to avoid

entering fields which are still wet from precipitation events or morning dew, especially in fields which still have a few more weeks of growing before harvest. This will help to avoid the potential spread of pathogens from plant to plant in the field

Crop Updates

Brassica Crops – Fresh market cabbage, broccoli and cauliflower are being harvested. The latest plantings are establishing well and the warm weather forecasted for the next two weeks should allow for some late season growth. Alternaria, flea beetles and diamondback moth were found in high levels this year and flea beetles continue to be a major pest in some fields. Bacterial head rot has also been found to be a problem again this year in both southwestern and eastern Ontario. Brussels Sprouts are maturing and harvest will likely start in early fields over the next few

Carrots – With the cooler weather, carrots are really bulking up nicely. We've seen some cavity spot on harvested carrots and leaf blights have also been increasing with the cooler weather and closed canopies. Continue to monitor for leaf blight and use a spray threshold of 25% incidence in the field.

Celery – Harvest is underway. Multiple pathogens are present causing celery leaf curl, white mold and bacterial rots but disease incidence is low relative to other years.

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Garlic – Yields were down over 25% across the province this season and a cloudy spring as well as a winter of flooding and freeze/thaw cycles are being blamed for a decrease in yield. Planting has started across SW Ontario for the 2020 crop. Register for the December 4th garlic workshop by calling the AICC at 1 877 424-1300.

Onions – Harvest is underway in transplants and direct seeded onions. The level of thrips has reached the spray threshold in most areas. Downy mildew was confirmed in Ontario transplant onions a few weeks ago; but conditions have not been favourable for sporulation and infection in the major onion growing regions. Conditions were favourable for pink root and onion smut development this year and will impact the yield in many fields come harvest.

Potatoes – Many fields are being top-killed currently in preparation for harvest. There have been multiple reports of late blight in New York close to the Ontario border so remain vigilant in scouting for late blight. Refer to Publication 838 for fungicides registered to prevent tuber blight.

Peppers – Fresh market growers are continuing to hand harvest. Growers that plan to keep their crop until frost should expect decreased fruit set and size due to the cooler night time temperatures. Some processing peppers have started their bulk, destructive harvest, though most are still hand picking. The pepper weevil survey will be continuing until the end of September. As of Friday, September 13, no pepper weevils have been observed on outdoor traps.

Tomatoes – Harvest is ongoing in both fresh market and processing tomatoes. Processing tomatoes yields looks like they will be average, at least. Fresh market growers planning to keep their crop in until frost should be aware of bacterial diseases, which are affecting both fruit and foliage. Also, growers should be on the look out for late blight as a new report from New York states there is now late blight on tomatoes

Pest Degree Day Forecasting

Pest	Carrot Rust Fly	Onion Maggot	Carrot Weevil	Aster Leafhopper	Tarnished Plant Bug	Cabbage Maggot	Seedcorn Maggot	European Corn Borer
THRESHOLD	329-395, 1399-1711	210-700, 1025-1515	138-156, 455+	128+	40+	314-398, 847-960, 1446-1604	200-350, 600-750, 1000-1150	See legend below
Essex*	2417	2245	1759	1461	1054	1917	2245	1317
Chatham-Kent*	2314	2137	1643	1336	876	1803	2137	1193
Norfolk**	2217	2046	1563	1264	807	1720	2046	1124
Huron***	1978	1814	1355	1072	648	1502	1814	940
Wellington**	1947	1786	1329	1051	632	1475	1786	921
Simcoe County***	1968	1805	1348	1070	655	1494	1805	941
Durham***	2075	1912	1455	1179	750	1601	1912	1047
Peterborough	1870	1706	1245	961	552	1394	1706	832
Kemptville***	2091	1928	1466	1177	738	1615	1928	1036
Sudbury***	1735	1586	1169	914	528	1302	1586	796

*- Bivoltine region for ECB. First Peak Catch: 300-350 DD, Second Peak Catch 1050-1100 DD

**-. Overlap region for ECB. First Peak Catch : 300-350 DD Second Peak Catch 650-700 DD, Third Peak Catch 1050-1100 DD

***-Univoltine region for ECB. Peak Catch 650-700 DD

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Use these thresholds as a guide, always confirm insect activity with actual field scouting and trap counts.
Select a region below for the latest weather, crop and pest degree day information:

Essex County(<https://onvegetables.com/2019/09/19/vcr-19/#essex>)

Chatham-Kent County(<https://onvegetables.com/2019/09/19/vcr-19/#chatham-kent>)

Norfolk County(<https://onvegetables.com/2019/09/19/vcr-19/#norfolk>)

Wellington County(<https://onvegetables.com/2019/09/19/vcr-19/#wellington>)

Simcoe County(<https://onvegetables.com/2019/09/19/vcr-19/#simcoe>)

Durham County(<https://onvegetables.com/2019/09/19/vcr-19/#durham>)

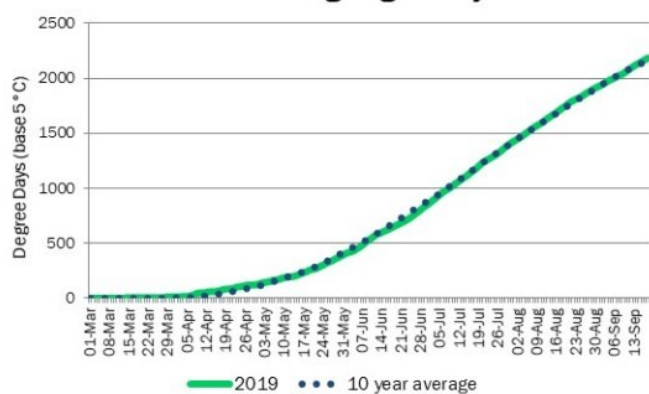
Peterborough(<https://onvegetables.com/2019/09/19/vcr-19/#peterborough>)

Kemptville(<https://onvegetables.com/2019/09/19/vcr-19/#kemptville>)

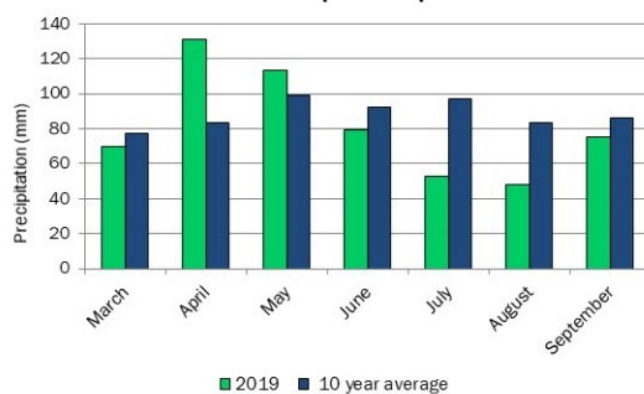
Sudbury(<https://onvegetables.com/2019/09/19/vcr-19/#sudbury>)

Essex County

Essex Growing Degree Days

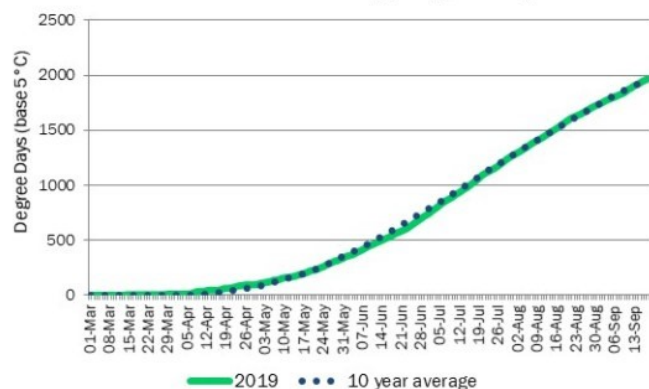


Essex Total Precipitation per Month

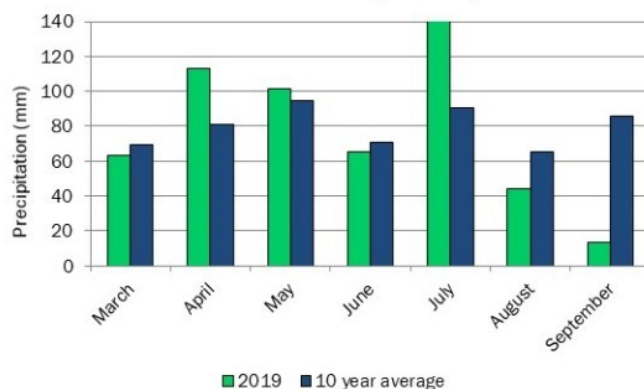


Chatham-Kent County

Chatham-Kent Growing Degree Days



Chatham-Kent Total Precipitation per Month

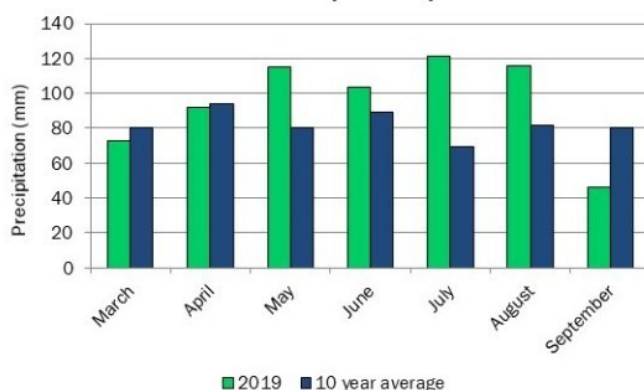


Norfolk County

Norfolk Growing Degree Days



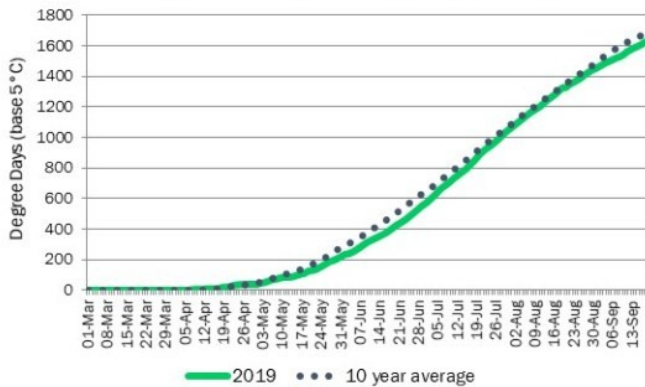
Norfolk Total Precipitation per Month



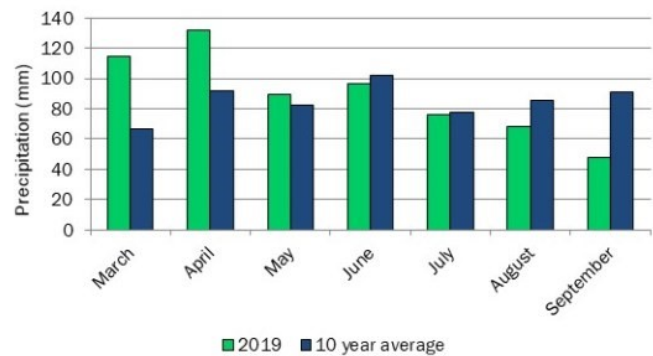
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Wellington County

Wellington County Growing Degree Days

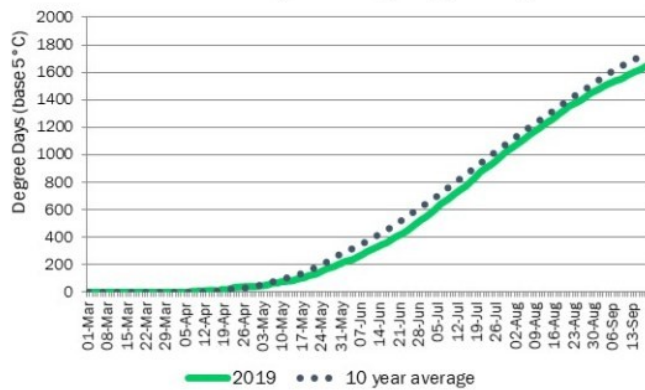


Wellington County Total Precipitation per Month

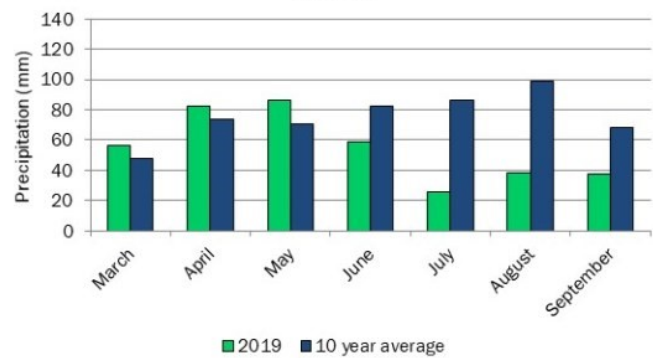


Simcoe County

Simcoe County Growing Degree days

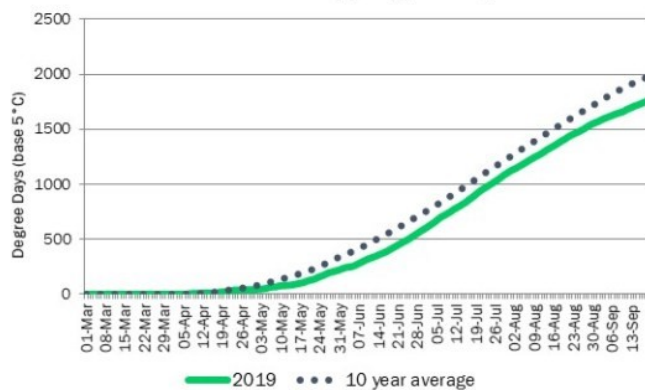


Simcoe County Total Precipitation per Month

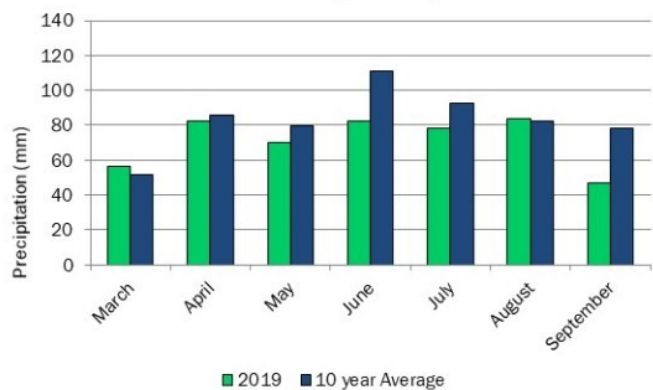


Durham County

Durham Growing Degree Days

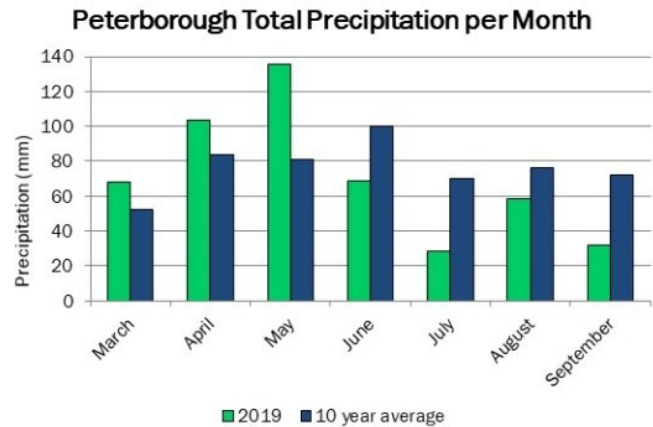
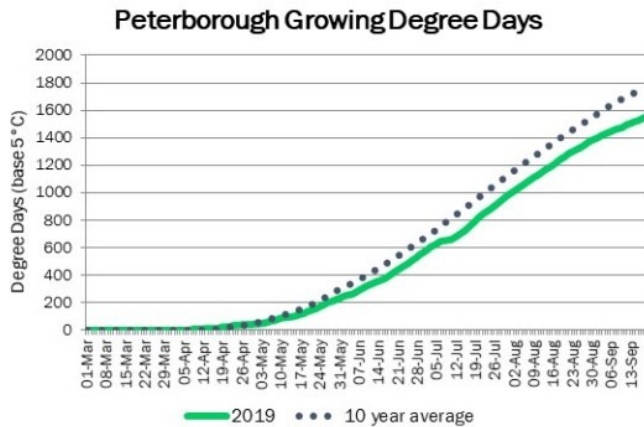


Durham Total Precipitation per Month

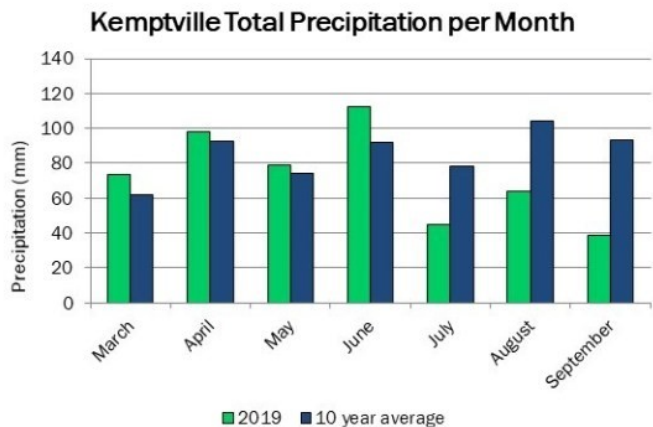
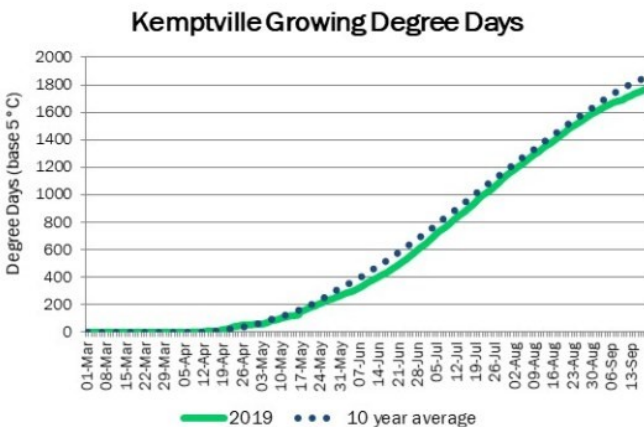


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Peterborough



Kemptville



Sudbury

