



Tuesday, June 16, 2020

OMAFRA Vegetable Team:

Travis Cranmer, Guelph
519-835-3382
travis.cranmer@ontario.ca

Dennis Van Dyk, Guelph
519-766-5337
dennis.vandyk@ontario.ca

Andrew Wylie, Ridgetown
519-401-5890
andrew.c.wylie@ontario.ca

Cassandra Russell, Ridgetown
519-350-7134
cassandra.russell2@ontario.ca

What's Growing ON? – Episode 1

Cassandra Russell, Vegetable Crops Specialist, OMAFRA



What's Growing ON?

Digging up the latest dirt on Ontario horticulture production. What's Growing ON? is hosted by Cassandra Russell and Kristy Grigg-McGuffin. This podcast features conversations with crop specialists from Ontario Ministry of Agriculture, Food & Rural Affairs on production, pest management and other best management practices for fruit, vegetables and specialty crops.

"In This Issue"

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Report – June 11, 2020

Episode 1: Garlic Scapes & Fire Blight

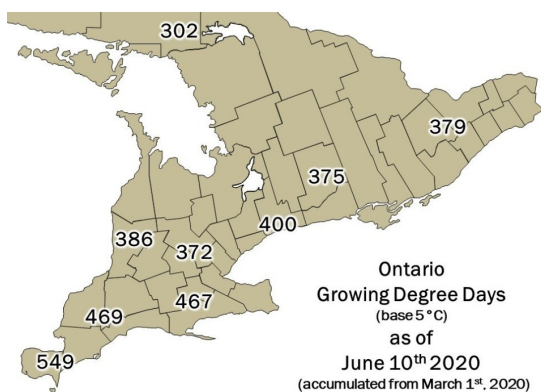
In our first episode, we are joined by Travis Cranmer, Vegetable Crop Specialist for alliums, brassica and leafy vegetables to introduce us to the benefits of removing garlic scapes and Katie Goldenhar, Pathologist for horticulture crops to discuss the risk of fire blight of apples and pears after bloom. Plus, Ontario crop updates for June 8th, 2020.

<https://www.buzzsprout.com/1111115/4065257-garlic-scapes-and-fire-blight?>

Music: Aspire by Scott Holmes

VCR – Vegetable Crop Report – June 11, 2020

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 – High temperatures this past week allowed for Growing Degree Day values to catch up or surpass 10-year average values in all regions with the exception of Kemptville, which still lags marginally behind. Cooler temperatures are expected over the weekend before rising again towards the end of next week for most regions. Onion Maggot, Aster Leafhopper and Tarnished Plant bug thresholds have now been triggered in all regions. Carrot Rust Fly thresholds have been reached in Sudbury. Seedcorn Maggot thresholds are triggered in Essex and Sudbury, while Cabbage Maggot thresholds have been triggered in Huron, Wellington, Simcoe, and Durham counties, Peterborough, as well as Kemptville. Degree day data for each region is shown below.

Rainfall – Huron and Simcoe counties accumulated large amounts of rain yesterday and have now received around half the expected 10-year average value for June. No rain is forecasted for any region in the upcoming week. Precipitation data for each region is shown below.

Crop Updates

Asparagus – Harvest is wrapping up for this year's asparagus crop. Fluctuating temperatures have encouraged *Stemphylium* purple spot in many areas. Some fields have high incidence so inoculum levels should be assumed to be high. Asparagus should be scouted to determine when spray programs should begin for *Stemphylium* and for rust.

Brassica Crops – Flea beetles, cutworms and imported cabbageworms are active. Cabbage maggot has reached its degree day threshold in all regions except for Sudbury.



Imported cabbage worm larvae on Brussels sprouts leaves – June 11, 2020

Carrot – Carrots are almost all seeded now and most have started to emerge. Hopefully the emerged carrot survived the storm and winds on Wednesday night. Carrot weevil are active right now and laying eggs so scout on the field borders and determine if the numbers are at threshold.



Carrots emerging in the bunny ear stage.

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Celery – Aster leafhopper and tarnished plant bugs are active and thresholds have been reached in all regions

Cucurbits – Cucumber beetle continues to cause direct damage in many areas and vine crops should be scouted for these. Thresholds are low for this pest because they carry the causative agent of bacterial wilt. Cucumbers and melon are more susceptible to bacterial wilt, and pumpkins and squash are more attractive to cucumber beetle. If there are beetle emergences in your area, be alert for these during their second emergence later this summer and consider planting trap plants or indicator plants.

Garlic – The number of adult leek moths trapped has been down over the past two weeks and it's likely that the second flight will be occurring shortly. Target the next wave of leek moth larvae a week after the next peak of adults trapped. Scapes are starting to emerge across Ontario in 'Music' and other hard neck cultivars.

Leafy Greens – Cutworms pressure is high. Leafminers are active and will cause damage that is similar to frost (below). Cut a leaf and hold it up and you may be able to see the dark spots of the larvae within the leaf.



Beet leafminer damage in Swiss chard – June 8, 2020

Onions – Many direct seeded onions have reached the 3rd leaf stage and some are even a little further along. Onion maggots and cutworms are active.

Potatoes – Potatoes are planted and many fields are starting to emerge and fill in the row. Overwintering Colorado Potato Beetles are out and laying eggs. Keep an eye out for egg masses under leaves and hatching larvae to determine how your seed or in-furrow insecticide is holding up. Now is a good time to spot any emergence or seed-borne issues. We have seen rhizoctonia in some fields but also look out for Fusarium dry rot, soft rot and potential seed-borne late blight.



Rhizoctonia infecting emerging potato.



Millipedes feeding on potato seed piece.

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Rhubarb – Frost damaged rhubarb has recovered.

Sweet corn – Sweet corn is growing well



Sweet corn in early June.

Tomatoes and Peppers – Transplants are coming along well, although some plants are suffering from heat stress and dry conditions. With storms coming through SW Ontario, transplants should be monitored for wind damage and potentially hail in some areas. Early season insect pressure has been low overall this season, but cutworm larvae have been active in other crops. For a refresher on what to be scouting for this time of year, check out this previous blog post on [early season insect pests](https://onvegetables.com/2019/04/09/early-season-insect-pests-of-tomato/) (<https://onvegetables.com/2019/04/09/early-season-insect-pests-of-tomato/>).

NOTE: Data as of June 10th, 2020

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*	702	621	425	331	220	483	621	292
Chatham-Kent*	609	534	362	278	163	411	534	241
Norfolk**	610	535	352	268	157	404	535	231
Huron***	497	439	299	223	121	340	439	188
Wellington**	491	428	284	213	121	326	428	182
Simcoe County***	490	428	289	217	127	331	428	187
Durham***	526	460	304	230	130	347	460	197
Peterborough	499	433	284	210	116	326	433	178
Kemptville***	502	439	286	214	121	328	439	183
Sudbury***	386	342	235	183	103	265	342	158

*- 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/2020/06/11/2020vcr-7/#essex>)

Chatham-Kent County(<https://onvegetables.com/2020/06/11/2020vcr-7/#chatham-kent>)

Norfolk County(<https://onvegetables.com/2020/06/11/2020vcr-7/#norfolk>)

Huron County(<https://onvegetables.com/2020/06/11/2020vcr-7/#huron>)

Wellington County(<https://onvegetables.com/2020/06/11/2020vcr-7/#wellington>)

Simcoe County(<https://onvegetables.com/2020/06/11/2020vcr-7/#simcoe>)

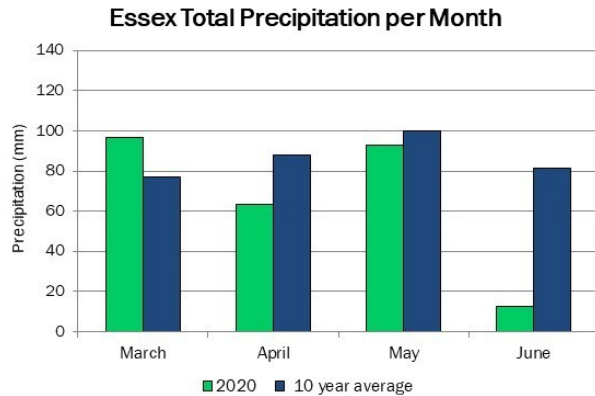
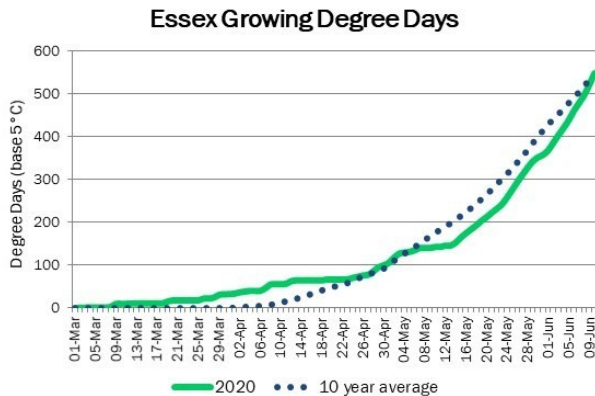
Durham County(<https://onvegetables.com/2020/06/11/2020vcr-7/#durham>)

Peterborough(<https://onvegetables.com/2020/06/11/2020vcr-7/#peterborough>)

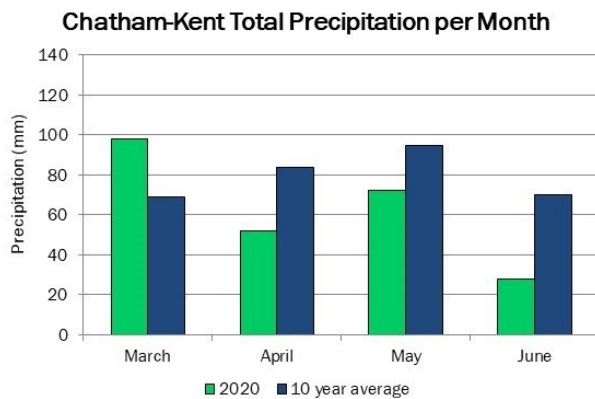
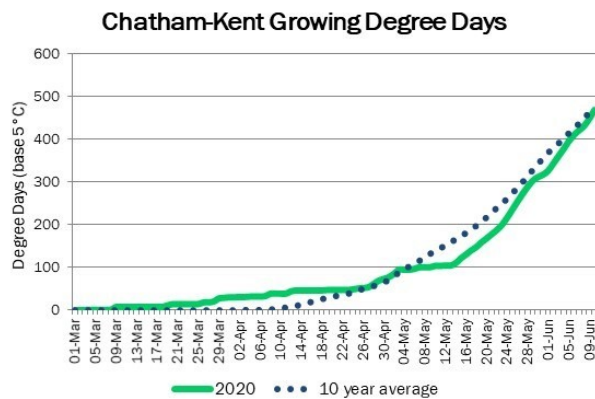
Kemptville(<https://onvegetables.com/2020/06/11/2020vcr-7/#kemptville>)

Sudbury(<https://onvegetables.com/2020/06/11/2020vcr-7/#sudbury>)

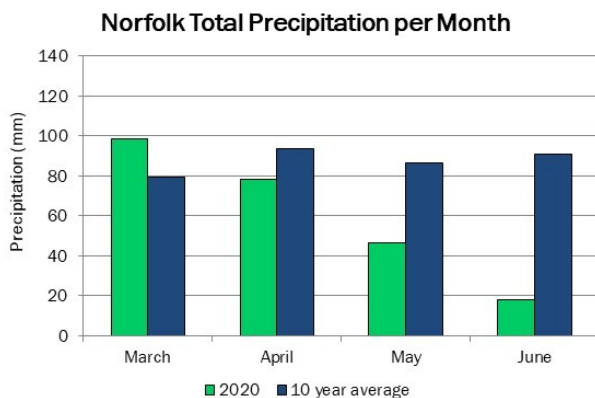
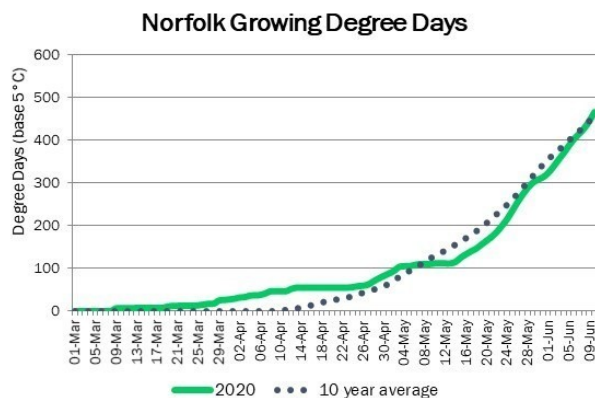
Essex County



Chatham-Kent County



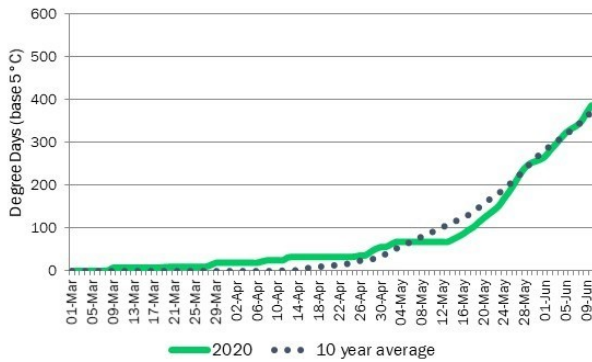
Norfolk County



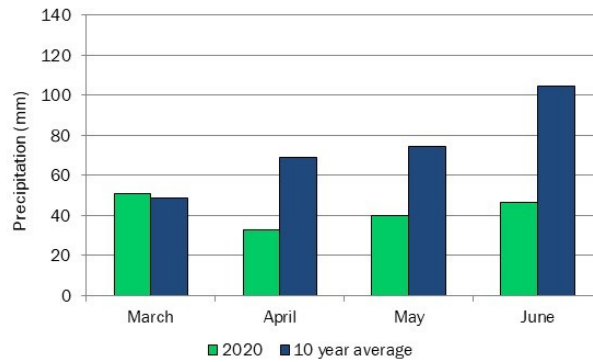
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Huron County

Huron County Growing Degree Days

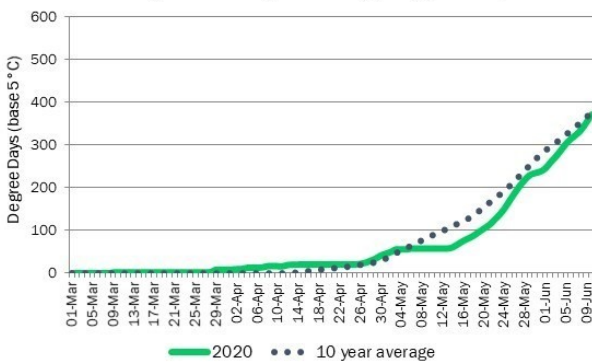


Huron County Total Precipitation per Month

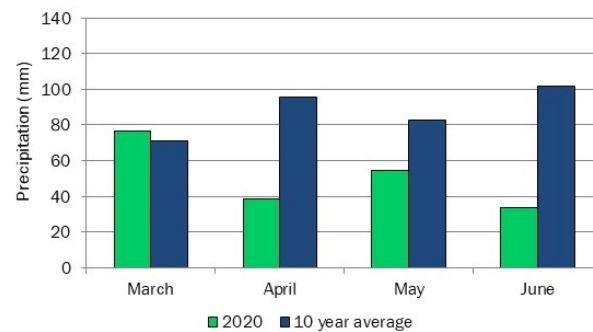


Wellington County

Wellington County Growing Degree Days

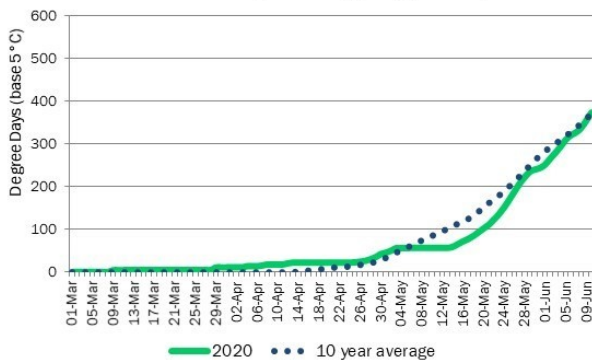


Wellington County Total Precipitation per Month

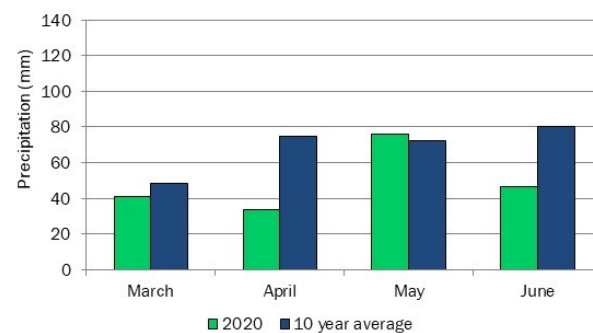


Simcoe County

Simcoe County Growing Degree days

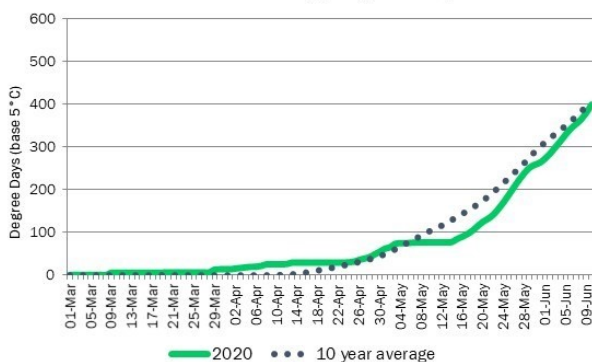


Simcoe County Total Precipitation per Month

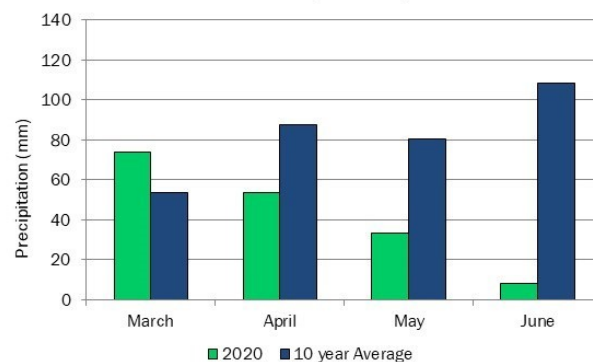


Durham County

Durham Growing Degree Days



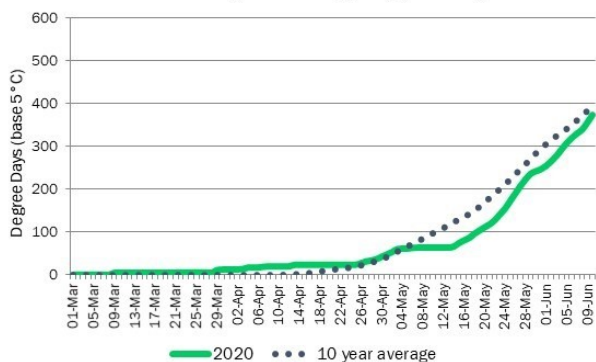
Durham Total Precipitation per Month



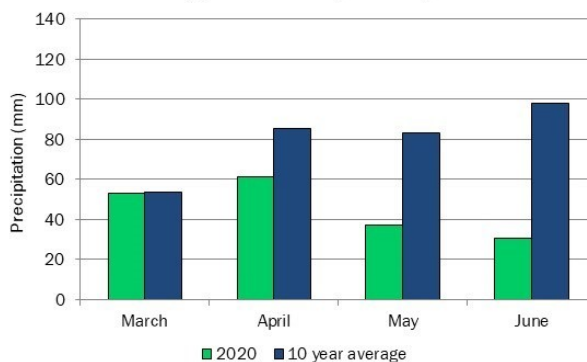
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Peterborough

Peterborough Growing Degree Days

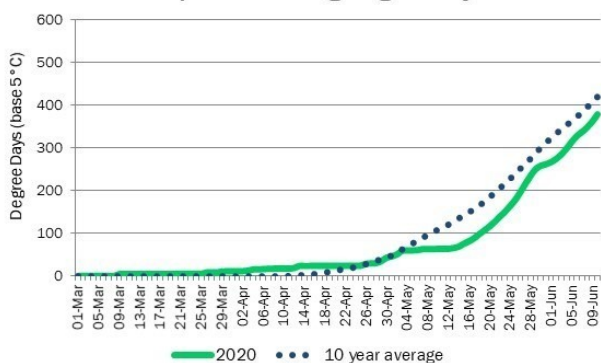


Peterborough Total Precipitation per Month

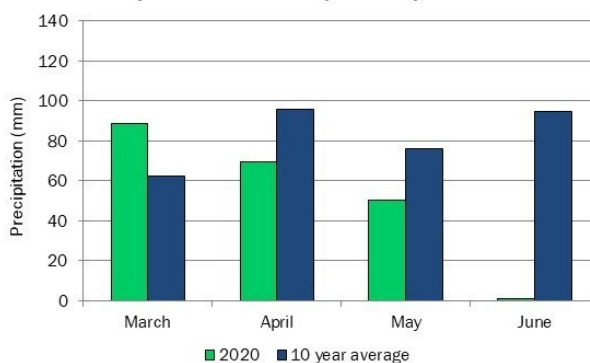


Kemptville

Kemptville Growing Degree Days

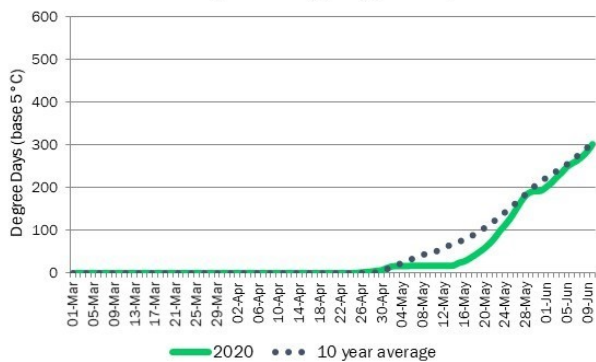


Kemptville Total Precipitation per Month



Sudbury

Sudbury Growing Degree Days



Sudbury Total Precipitation per Month

