



Tuesday, September 10, 2019

OMAFRA Vegetable Team:

Elaine Roddy, Ridgetown
519 674 1616
elaine.rodry@ontario.ca

Dennis Van Dyk, Guelph
519 826 4587
dennis.vandyk@ontario.ca

Travis Cranmer, Guelph
519 826 4963
travis.cranmer@ontario.ca

Amanda Tracey, Ridgetown
519 674 1699
Amanda.Tracey@ontario.ca

Kemptville Vegetable Workshop

Vegetable workshop focused on pest identification and management.

The Veg Team will be coming to Kemptville October 29th and 30th to host two days of Vegetable Pest and Production workshops. The workshops will include field scouting, diagnostics as well as production practices. When not presenting, Amanda Tracey, Dennis Van Dyk, Elaine Roddy and Travis Cranmer will be around to answer specific questions not covered in individual sessions.

Tuesday, October 29th

10:00-2:30 Garlic
2:30-3:30 Cucurbits
3:30-4:30 Sweet Corn

Wednesday, October 30th

9:00-10:30 Potatoes
10:30-12:00 Tomatoes & Peppers
1:00-2:00 Onions
2:00-3:00 Carrot
3:00-4:00 Brassica Crops

Grenville Mutual Community Room, 380 Colonnade Drive, Kemptville

The cucurbit, sweet corn, potatoes, tomatoes, peppers, onions, carrot and brassica crops sessions will focus primarily on pest identification and management. The garlic portion of the workshop is more detailed and will cover clean seed, cultivar selection, seeding density, nutrient testing, scape removal, weed control, crop insurance, harvesting, grading, storing as well as scouting/pest management. This workshop is tailored to everyone including those starting into garlic production or someone who has 30 years of growing experience.

A colour production and pest management guide containing all the workshop slides will be provided each day. Coffee and refreshments will be provided; lunch on your own.

Pre-registration is required, please call 1 877 424 1300 or E-mail ag.info.omafra@ontario.ca to register. Please indicate what day you are attending. E-mail any questions to travis.cranmer@ontario.ca.

“In This Issue”

- ♦ Kemptville Vegetable Workshop
- ♦ Current late blight risk in Ontario field tomatoes: September 4, 2019
- ♦ VCR – Vegetable Crop Report – September 4
- ♦ Gesagard Herbicide label expanded via Minor Use Program for use on Parsley

Current late blight risk in Ontario field tomatoes: September 4, 2019

Amanda Tracey, Vegetable Crops Specialist, OMAFRA, Ridgetown and

Cheryl Trueman, Department of Plant Agriculture, Ridgetown Campus – University of Guelph



With tomato harvest in full swing, it is time to wrap up the late blight spore trapping for this growing season.

As mentioned in a previous post(<https://onvegetables.com/2019/06/20/current-late-blight-risk-in-ontario-field-tomatoes-june-20-2019/>), this is Year 1 of a three-year research project to assess the value of different spore traps and forecasting models to predict late blight risk for field tomatoes. We are

comparing the Spornado and rotorod spore traps at eight sites in Kent County (Fig. 1), along with the BliteCast forecasting model.

DNA of *Phytophthora infestans*, the organism that causes late blight, was detected by Spornado traps at 3 of 8 sites for the August 26-29 sampling period (Table 1).

Rotorod traps detected spores of *P. infestans* at 0 of 8 sites for the August 26-29 sampling period (Table 1).

Table 1. Number of sites out of eight (8) in Kent County, with a positive detection for *Phytophthora infestans*, the organism that causes late blight.

* first sampling period with a positive detection for late blight.

– data currently unavailable

Sampling Period	Spornado	Rotorod
July 15-18 *	1	0
July 18-22	4	0
July 22-25	0	1
July 25-29	7	0
July 29-August 1	2	2
August 1-5	2	1
August 5-8	0	5
August 8-12	3	1
August 12-15	0	3
August 15-19	4	3
August 19-22	-	7
August 22-26	1	0
August 26-29	3	0

Late blight symptoms have been confirmed on a potato plants in Norfolk County.

Late blight caused by the US-23 genotype has been observed in Wisconsin on potato and in New York and Pennsylvania on tomato and potato. Pennsylvania on tomato, but there are no reports of symptoms on any crops in Ontario or Michigan.

A summary of fungicides for late blight management is available here(<https://onvegetables.com/2017/07/26/late-blight-alert-july-28th-2017/>).

If you suspect late blight in your tomato crop, please reach out to Amanda Tracey (Amanda.tracey@ontario.ca, 519-350-7134) to confirm the diagnosis. Cheryl is away on parental leave and will not be available for the remainder of the growing season.

Project collaborators: Tomecek Agronomic Services, Sporometrics, Phytodata, and Genevieve Marchand (AAFC).

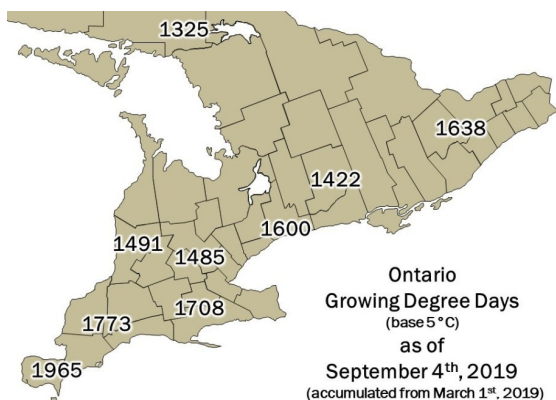
Funding acknowledgement: Ontario Tomato Research Institute, Fresh Vegetable Growers of Ontario, and the Ontario Agri-Food Innovation Alliance.

Links to previous late blight posts from the 2019 season:

- June 20(<https://onvegetables.com/2019/06/20/current-late-blight-risk-in-ontario-field-tomatoes-june-20-2019/>)
- July 10(<https://onvegetables.com/2019/07/11/current-late-blight-risk-in-ontario-field-tomatoes-july-10-2019/>)
- July 20(<https://onvegetables.com/2019/07/20/current-late-blight-risk-in-ontario-field-tomatoes-july-20-2019/>)
- August 7(<https://onvegetables.com/2019/08/07/current-late-blight-risk-in-ontario-field-tomatoes-august-7-2019/>)
- August 14(<https://onvegetables.com/2019/08/14/current-late-blight-risk-in-ontario-field-tomatoes-august-14-2019/>)
- August 21(<https://onvegetables.com/2019/08/14/current-late-blight-risk-in-ontario-field-tomatoes-august-21-2019/>)
- August 28(<https://onvegetables.com/2019/08/28/current-late-blight-risk-in-ontario-field-tomatoes-august-28-2019/>).

VCR – Vegetable Crop Report – September 4

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 – Generally cooler weather combined with heavier morning dews and some precipitation has continued to be conducive to the development of plant pathogens in many of the vegetable growing regions in the past week. Continue being vigilant for symptoms of pathogen infection in fields which are not yet harvested, and incorporate remaining plant material into the ground once fields are harvested. Chatham, Essex, Kemptville, Norfolk and Wellington growing regions held steady with their average degree day accumulations, while remaining regions continue to be significantly to marginally behind their average degree day accumulations.

Rainfall – August brought no clear trend in precipitation with Durham and Norfolk counties receiving above average rain for the month, and others ranging from just below average to significantly below. The Essex, Huron, and Sudbury growing regions are well on their way to their September precipitation averages, while the other regions range from no precipitation to about 5 mm in the first few days of the month.

Crop Updates

Brassica Crops – Diamondback moths and flea beetles continue to be the most common insect challenge this year. Conditions have been favourable for Alternaria, black rot and fusarium wilt.

Carrot – Risk of disease is the main issue in carrots currently. Be on the lookout for Alternaria and Cercospora leaf blights developing on older leaves as the overnight temperatures cool. Also be sure to check between the rows under the canopy for signs of white mould starting to develop on old and dying leaves.

Picture 1: A patch of Alternaria leaf blight.



Picture 2: White Mould of Carrot growing on lower leaves.



VCR – Vegetable Crop Report – September 4...con't

Celery – Celery harvest is underway. For late plantings, continue to scout for bacterial blight, pink rot and celery leaf curl. Avoid scouting when leaves are wet as pathogens can spread easily on clothes and equipment throughout the field.

Garlic – Planting season is underway in some areas. Early plantings have an increased chance of bolting and winterkill. When purchasing planting stock this fall, send some cloves for bulb and stem nematode testing prior. Even cloves with an intact basal plate and no observable damage may have nematodes. There will be another full day workshop in Guelph on December 4th that will cover every part of garlic production including clean seed, cultivar selection, seeding density, nutrient testing, scape removal, weed control, crop insurance, harvesting, grading, storing as well as scouting/pest management. To register, call the Agriculture Information Contact Centre at 1 877-424-1300.

Onions – Harvest is underway in transplants and some early direct seeded onions. The level of thrips has reached the spray threshold in most areas. Downy mildew was been confirmed in Ontario transplant onions last week; but conditions have not been favourable for sporulation and infection in the major onion growing regions. The weather has been conducive for Stemphylium leaf blight development which has caused significant leaf tip dieback in some areas. Conditions have also been favourable for pink root and onion smut development this year and will impact the yield in many fields come harvest.

Potatoes – The threat of late blight remains front and center as some fields will need a few more weeks of green tops and good weather to fill out. Plants infected with late blight were confirmed in Norfolk county last week but there have been no new reports. The season also seems to bring a late flush of insects as black cutworms have popped up and a small amounts of aphids have been seen in some fields. Continue to scout you fields for signs of disease and insects as the finish line draws nearer.

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*	2288	2124	1662	1380	997	1812	2124	1244
Chatham-Kent*	2089	1928	1478	1202	792	1623	1928	1073
Norfolk**	2013	1858	1419	1151	745	1561	1858	1025
Huron***	1784	1635	1221	968	594	1352	1635	850
Wellington**	1774	1628	1216	968	598	1348	1628	854
Simcoe County***	1795	1647	1235	987	619	1366	1647	873
Durham***	1891	1743	1330	1084	707	1462	1743	968
Peterborough	1714	1565	1149	895	530	1283	1565	781
Kemptville***	1931	1782	1365	1106	711	1500	1782	981
Sudbury***	1588	1455	1083	858	514	1200	1455	753

*- 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/2019/09/04/vcr-17/#essex>)

Chatham-Kent County(<https://onvegetables.com/2019/09/04/vcr-17/#chatham-kent>)

Norfolk County(<https://onvegetables.com/2019/09/04/vcr-17/#norfolk>)

Huron County(<https://onvegetables.com/2019/09/04/vcr-17/#huron>)

Wellington County(<https://onvegetables.com/2019/09/04/vcr-17/#wellington>)

Simcoe County(<https://onvegetables.com/2019/09/04/vcr-17/#simcoe>)

Durham County(<https://onvegetables.com/2019/09/04/vcr-17/#durham>)

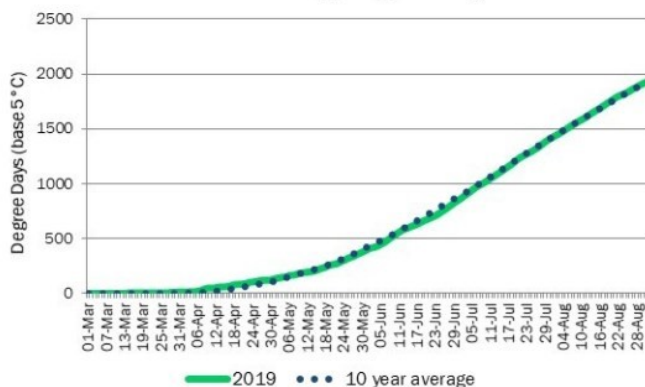
Peterborough(<https://onvegetables.com/2019/09/04/vcr-17/#peterborough>)

Kemptville(<https://onvegetables.com/2019/09/04/vcr-17/#kemptville>)

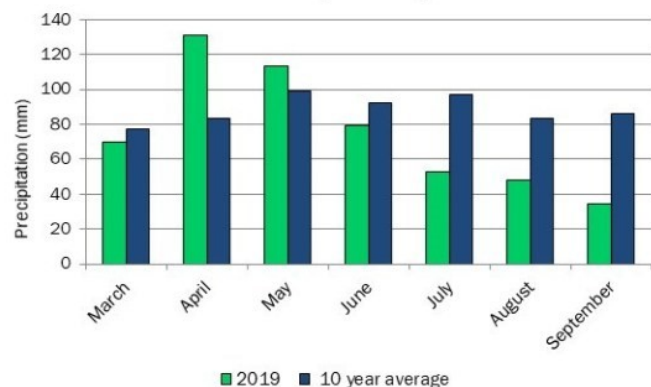
Sudbury(<https://onvegetables.com/2019/09/04/vcr-17/#sudbury>)

Essex County

Essex Growing Degree Days

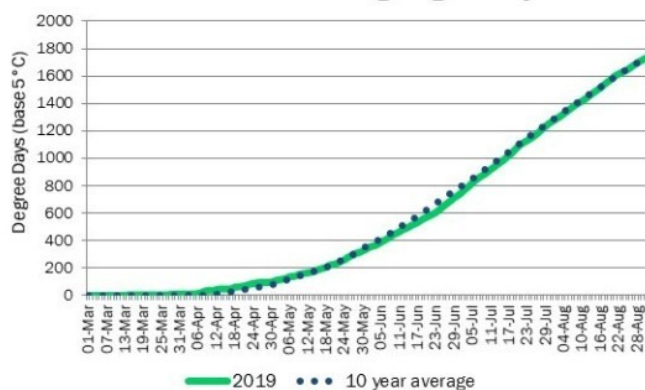


Essex Total Precipitation per Month

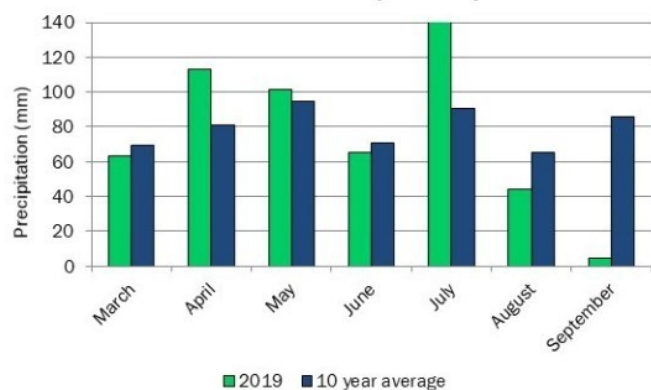


Chatham-Kent County

Chatham-Kent Growing Degree Days

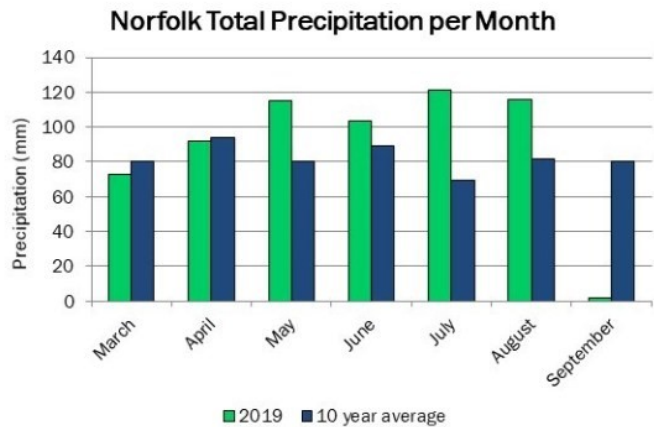
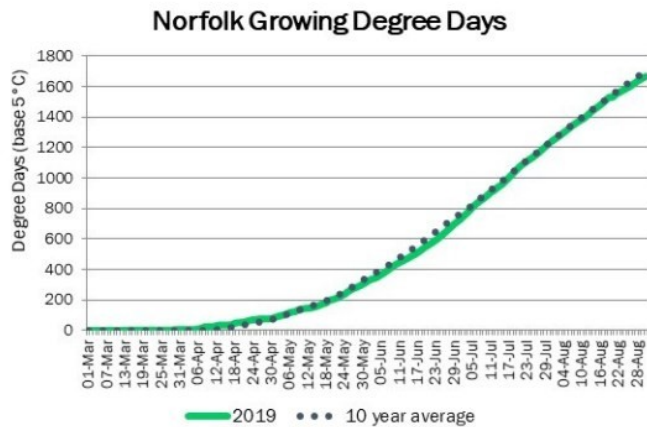


Chatham-Kent Total Precipitation per Month

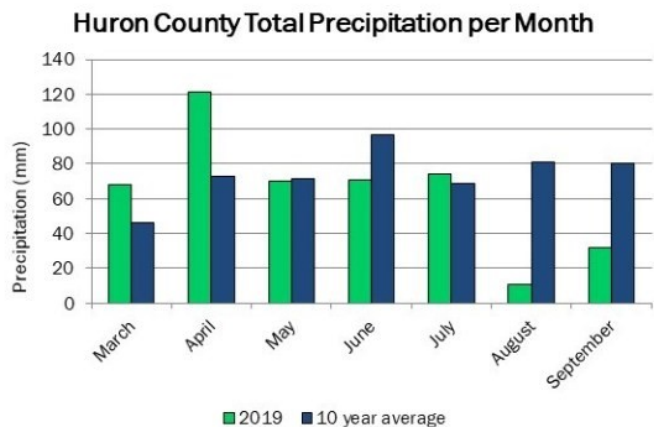
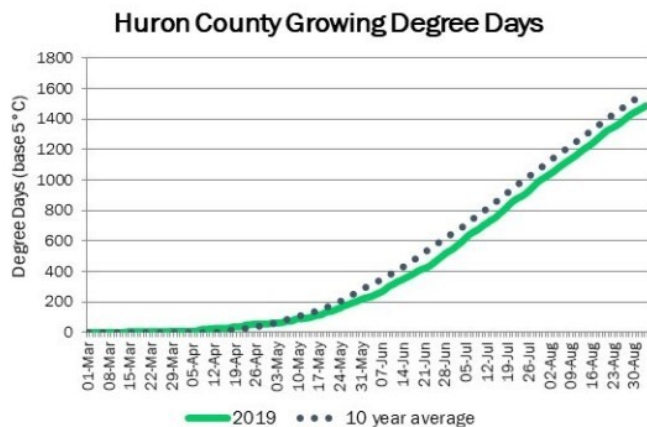


VCR – Vegetable Crop Report – September 4...con't

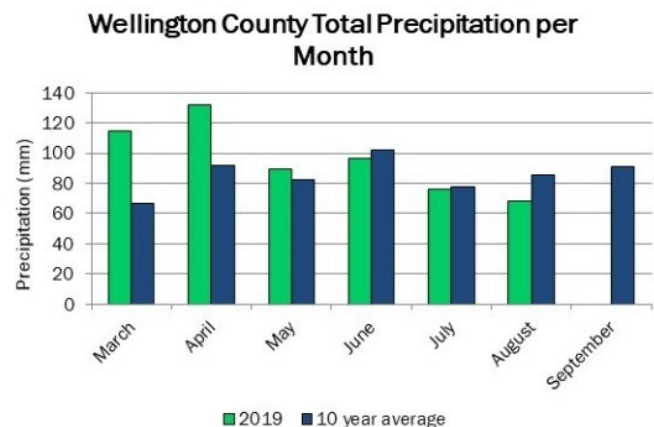
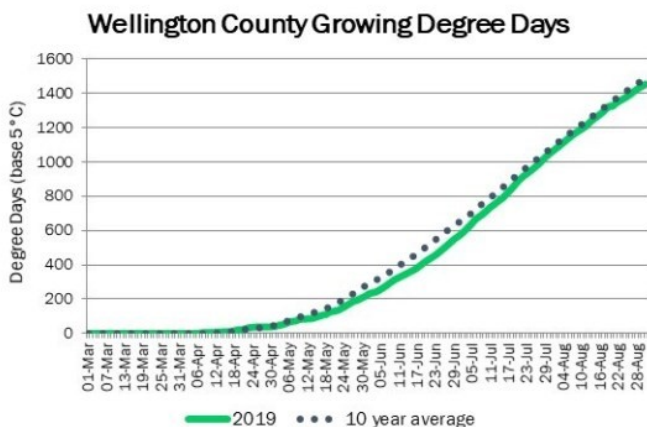
Norfolk County



Huron County

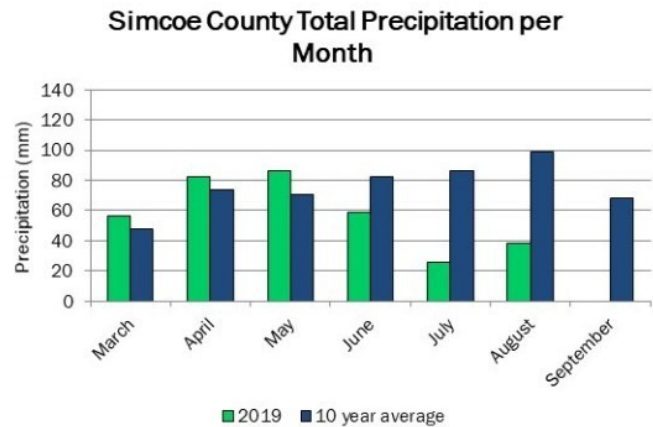
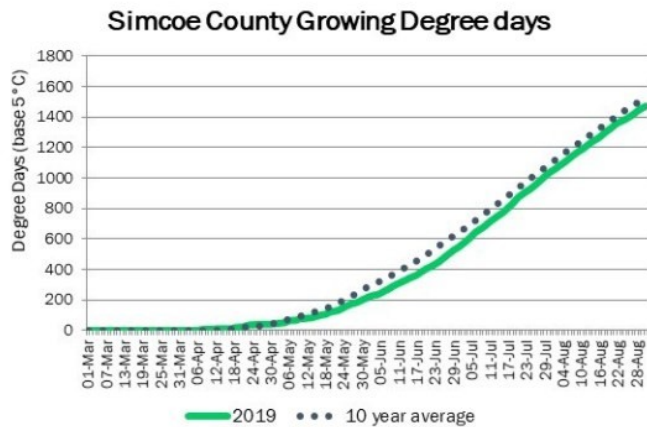


Wellington County

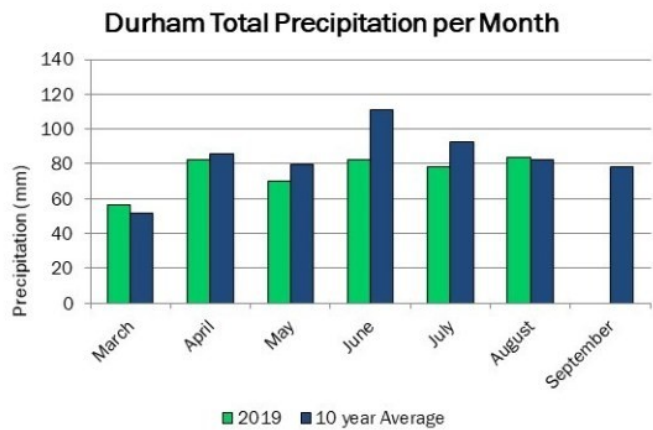
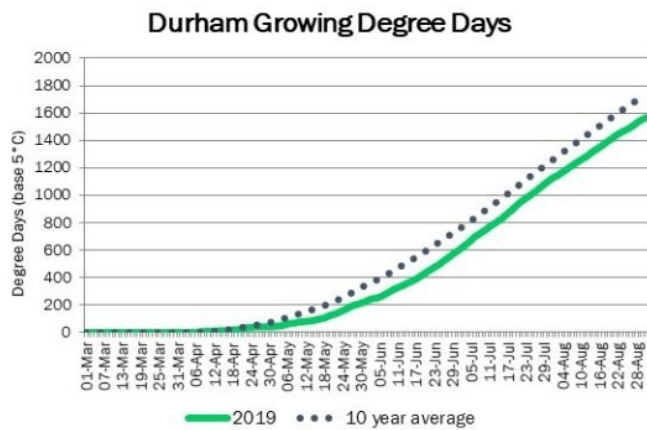


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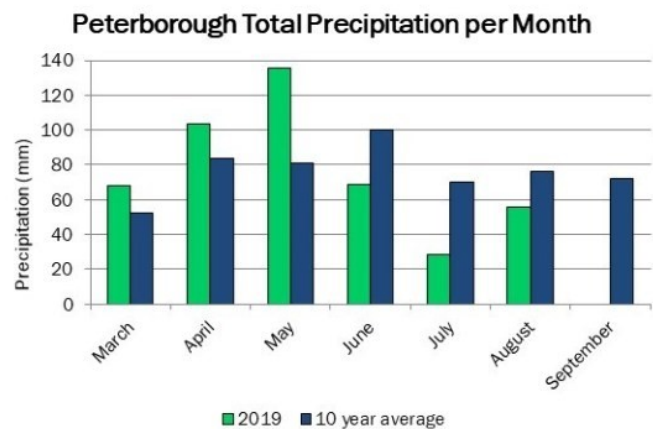
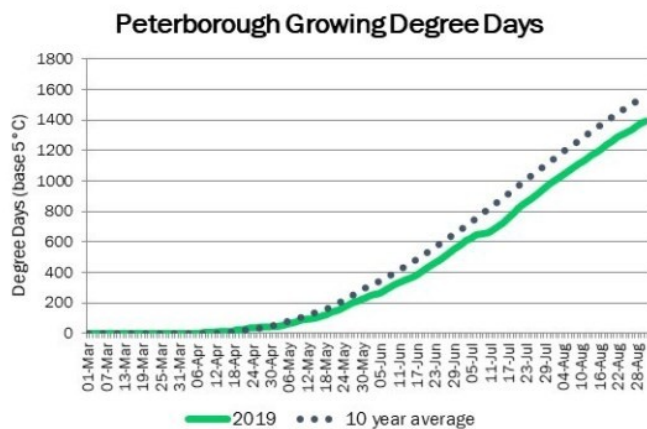
Simcoe County



Durham County

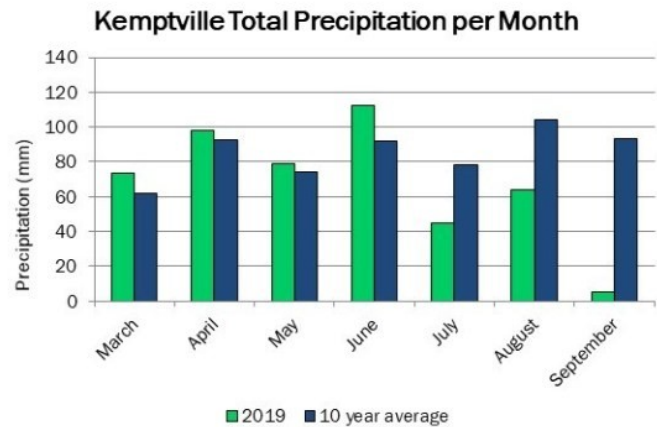
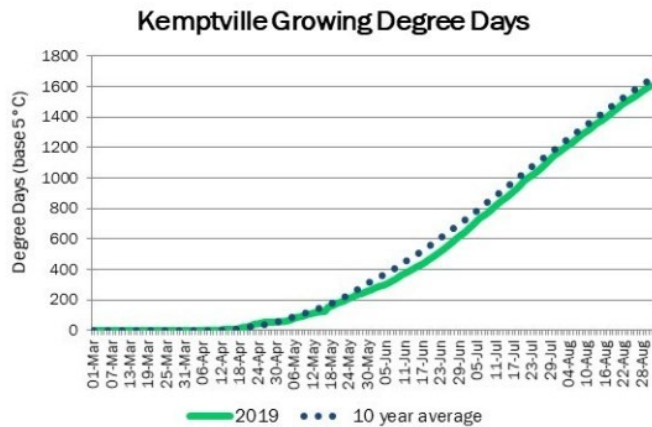


Peterborough

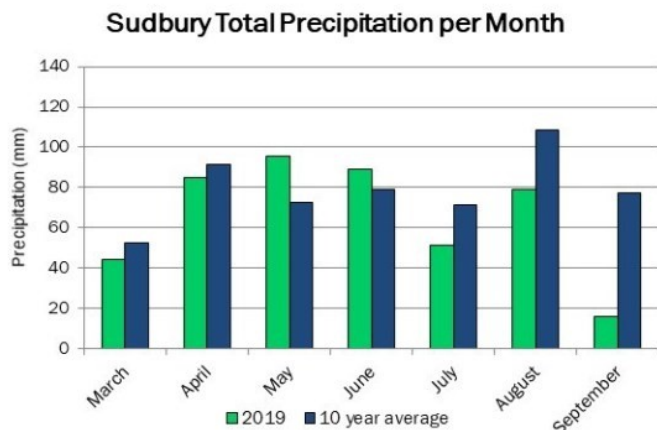
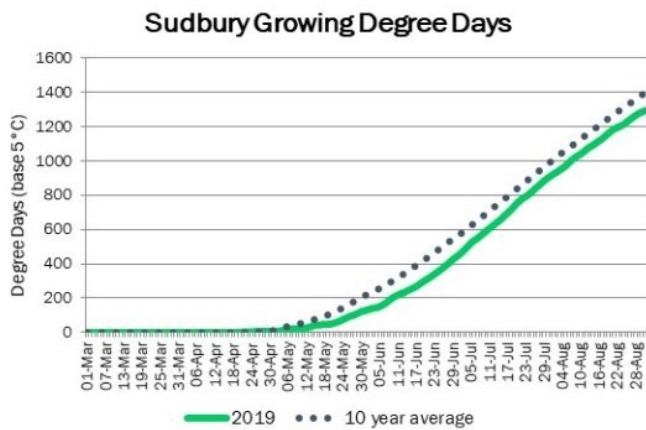


VCR – Vegetable Crop Report – September 4...con't

Kemptonville



Sudbury



Gesagard Herbicide label expanded via Minor Use Program for use on Parsley

J. Chaput, Minor Use Coordinator, OMAFRA



The Pest Management Regulatory Agency (PMRA) recently announced the approval of a minor use label expansion registration for **Gesagard 480SC® Herbicide for control of labeled weeds on parsley in Canada**. Gesagard 480SC® Herbicide was already labeled for use on a number of crops in Canada for control of several weeds.

This minor use project was submitted by the national minor use program at Agriculture & Agri-Food Canada, Pest Management Centre as a result of minor use priorities established by growers and extension personnel.

The following is provided as an abbreviated, general outline only. Users should be making weed management decisions within a robust integrated weed management program and should consult the complete label before using **Gesagard 480SC® Herbicide**.

Crop(s)	Target	Rate (L/ha)	Application Information	PHI (days)
Parsley	Labeled weeds	3.75-4.58 L product/ha	Apply prior to weed emergence or early post emergence to parsley before weeds reach 5 cm high. Application on sandy soils may result in crop injury. Do not apply if parsley is under water stress.	30

Gesagard 480SC® Herbicide is toxic to aquatic organisms, small wild animals, certain beneficial insects and non-target terrestrial plants. Do not apply this product or allow drift to other crops or non-target areas. Do not contaminate off-target areas or aquatic habitats when spraying or when cleaning and rinsing spray equipment or containers.

There are significant precautions and detailed directions for use on the Gesagard 480SC® Herbicide label; follow these carefully.

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