

# PLANETARY HEALTH WEEKLY



CURRENT NEWS ON ECOLOGICAL WELLNESS AND GLOBAL HEALTH

Volume 6, Number 29

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July 16, 2020

Hi,

Apprehension, fear, empathy, interest, excitement, respect, impatience, patience, admiration, pride, solidarity, hope and relief; these being the feelings I had last Friday while spending nine hours in my local hospital's emergency room in Toronto (at St. Joseph's Hospital); see END SHOTS. Earlier in the day, as I was getting up, I experienced a severe but short episode of vertigo, and wow did the world ever spin. I was astounded that this was really happening to me; I had previously thought that only happened in the movies. Interesting, too, was how all my emotions over the course of those nine hours were the same as I have for the environment and global health, including when I work on this newsletter every week.

Waiting, registering, waiting, getting vitals taken, waiting, briefly seeing a doctor who ordered blood tests, an ECG and CT brain scan, waiting, blood work, ECG, waiting, CT scan, waiting, and finally a short chat with the doctor confirming all tests were fine and I'll live for another day.

It was an experience confirming humanity and the greatness of our health system, and one that provided insight into so many slices of Toronto and our world in microcosm. In the emergency room waiting with me were, coming and going, about 20 others, of all ages, most younger than me, with a variety of problems (a hanging curtain between 'rooms' didn't provide much privacy). There was the woman who talked on her toy cell phone for about three hours - with quite interesting conversations at times, the very elderly couple waiting patiently, a guy in a wheelchair continually begging nurses to help him and a middle aged guy lying on the floor begging for help (these two both eventually disappeared), the young guy who'd just had a car accident, so many others and all the cleaners, orderlies, nurses and doctors. It was a United Nations of peoples with histories from all over the world speaking a multitude of languages. Then, at about my 6.5 hour mark a nurse runs by yelling "gunshot wound coming, gunshot patient coming!" The whole place became a frenzy of people dashing, two stretchers carrying screaming patients flew by, and all of us waiting there watched and listened intently.

What a day, what a city, what a great professional organization dedicated to service and humanity. I hope that in today's **Planetary Health Weekly** (#29 of 2020) you'll also 'see' the emotions I had and the work needed and happening to ensure our survival, all of us, and our generations to come. In it you'll find:

- Coronavirus updates:
  - A new version of the virus spreads faster,
  - The brutal blow of isolation on long-term care residents,
  - Postsecondary students financial concerns,
  - Temperature, humidity and latitude on the virus's spread,
  - Sweden's continuing fiasco,
  - 90% of patients suffering months after recovering,

- How the virus could fuel a superbug timebomb,
- How the virus could cause 35,000 extra UK cancer deaths, and
- Canadian Blood Services will start testing for COVID-19 antibodies, THEN:
- Surface global air temperature records for June 2020,
- Five strategies for building resilience among HIV-affected children and adolescents,
- A 'UK first' electric plane hits the skies,
- Montréal wins bid to host HQ for global biodiversity research networks,
- Strong evidence supports air pollution as a cause of dementia, and a systematic review of this literature,
- Japan to halt state support for overseas coal-fired power,
- France is ordered to fight pollution or pay millions in fines,
- The future of travel according to guidebook writer Rick Steves,
- *The Lancet* editor – 'The UK response to coronavirus is the greatest science policy failure for a generation',
- Queen's University (Kingston, Ontario) launches website for Indigenous initiatives,
- Quote on COVID-19 and mental health,
- Indigenous nations' map missing from history books,
- Adapting to a drier planet (podcast),
- Growers reaping benefits from predictive AI,
- The coming coconut crisis,
- New book: *Decolonizing and Indigenizing Education in Canada* (eds. S. Cote-Meek and T. Moeke-Pickering],
- New agreement supporting enhanced environmental education in Saskatchewan public schools, and
- END SHOTS from a hospital emergency room and COVID-19 stats.

I hope you'll take a look.

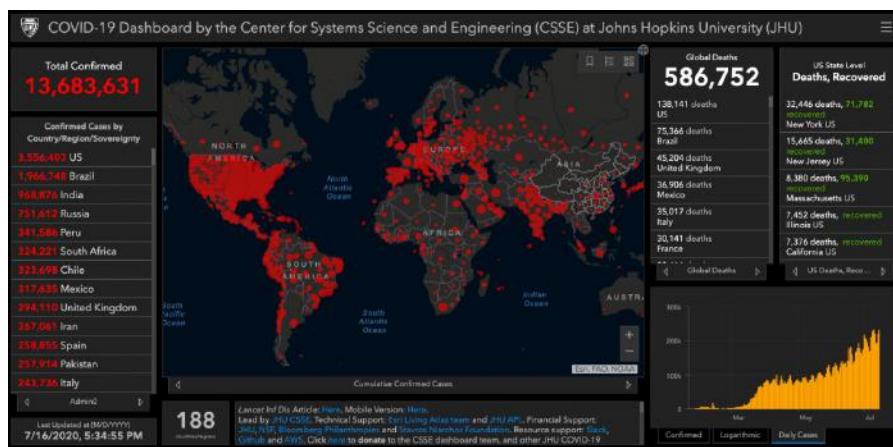
Best, david

David Zakus, Editor and Publisher



**BEAUTIFUL WILD SWEET PEAS**  
**Bruce Peninsula, Near Tobermory, Ontario**

**SARS-CoV-2 & COVID-19 UPDATES**



***Unreal and irresponsible number of cases and deaths (about 1.5 million new cases globally in the last week and a record 230,400 in the last 24 hours); See END SHOTS for more stats***

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**Study Confirms New Version Of Coronavirus Spreads Faster, But Doesn't Make People Sicker**



A global study has found strong evidence that a new form of [the coronavirus](#) has spread from Europe to the U.S.A. The new mutation makes the virus more likely to infect people but does not seem to make them any sicker than earlier variations of the virus, an international team of researchers has just reported.

"It is now the dominant form infecting people," Erica Ollmann Saphire of the La Jolla Institute for Immunology and the Coronavirus Immunotherapy Consortium (San Diego), who worked on the study, told CNN. "This is now *the* virus." The study, [published in the journal \*Cell\*](#), builds on earlier work the team did that was [released on a preprint server](#) earlier in the year. Shared information on genetic sequences had indicated that a certain mutant version of the virus was taking over. Read More at [CNN](#).

#### SEE ALSO:

**At CTV News:** [The Brutal Blow That Pandemic Isolation Has Dealt Residents Of Long-Term Care Residences](#)

**At CIBC:** [CIBC Survey Reveals Postsecondary Students' Financial Concerns Amid COVID-19](#)

A CIBC online survey of 1,053 Canadian postsecondary students has found that half of participants fear that they will be unable to attend a postsecondary institution this fall due to income disruptions as a result of COVID-19. The survey also revealed that the majority of those polled were experiencing one or more financial concerns, with postsecondary students more likely to indicate that their incomes would be impacted than adult Canadians with similar concerns (68% versus 36%). [Read More at CIBC](#)

**At Jama Network:** [Temperature, Humidity, and Latitude Analysis to Estimate Potential Spread and Seasonality of Coronavirus Disease 2019 \(COVID-19\)](#)

**At Daily Kos:** [Those Right-Wingers Who Praised Sweden's Response to COVID-19 are Looking Pretty Stupid Now](#)

**At The Telegraph:** [Nine In 10 People Have Persistent Symptoms Months After Recovering From Severe Covid-19](#)

**At Telegraph:** [Coronavirus Could Fuel a Superbugs Timebomb](#)

**At BBC:** [Coronavirus Could Cause 35,000 Extra UK Cancer Deaths](#)

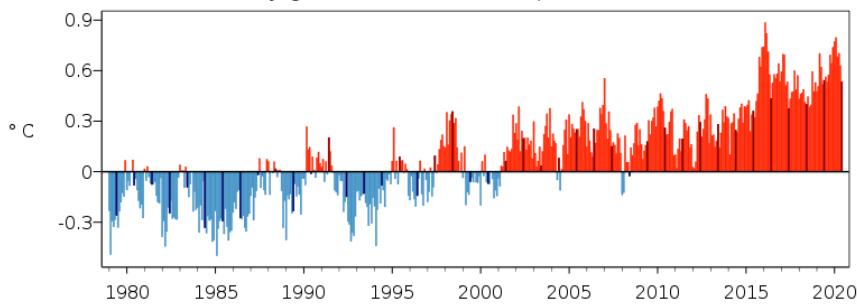
**At The Star:** [Canadian Blood Services Will Start Testing For COVID-19 Antibodies In Coming Weeks](#)

See [ENDSHOTS](#) for more current statistical COVID-19 summaries.

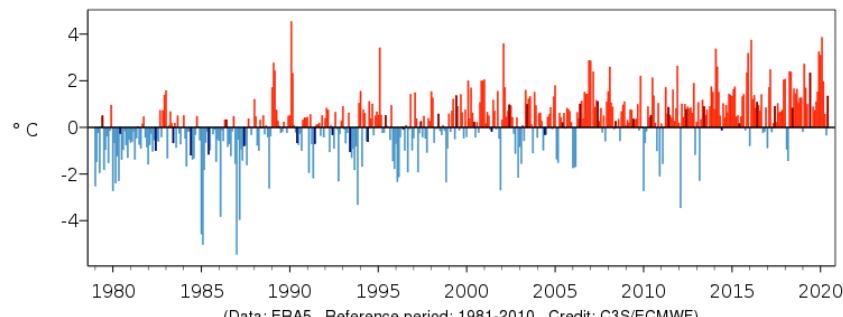
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## Surface Air Temperatures For June 2020 Set Records

### Monthly global surface air temperature anomalies



### Monthly European surface air temperature anomalies



(Data: ERA5. Reference period: 1981-2010. Credit: C3S/ECMWF)



Date created: 2020-07-03

Globally, temperatures last month were 0.53°C warmer than the average June from 1981-2010, almost tied as the warmest June in this record and with the Siberian Arctic experiencing the most above-average conditions. In Europe, temperatures were far above average in the north but below average in the south, overall tying as the second warmest European June in our record.

Temperatures over Europe deviated quite substantially from the 1981-2010 average in June 2020, with a pattern largely opposite to that in May, associated with a change in the prevailing atmospheric circulation. Temperatures were well above average over Scandinavia and much of eastern Europe, under the influence of anticyclonic conditions.

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## 5 Strategies For Building Resilience Among HIV-Affected Children And Adolescents

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For decades, local organizations and communities have worked to bring us closer to the end of the AIDS epidemic. Together great progress has been made toward creating a resilient, AIDS-free generation. Yet there is much work left to do. Globally, there are [1.7 million](#) children under 15 living with HIV, and of these only 54% have access to treatment. Adolescence is also the only age group in which AIDS-related deaths are increasing. An estimated 7,000 adolescent girls and young women, or AGYW, become newly infected each week. Due to a variety of interpersonal and social issues, they are among the most vulnerable populations when it comes to contracting HIV and other sexually transmitted diseases that increase their vulnerability to HIV.

New [modeling](#) has also shown a potentially high cost of [COVID-19](#) on new HIV infections among children. Disruptions to HIV services because of the COVID-19 response, particularly services for mothers and children, could reverse the gains that have been made in reducing new HIV infections in children in sub-Saharan Africa, leading to a spike in new infections. The five strategies to help control this are:

- Reach children and adolescents where they live and learn
- Reach children and adolescents where they play and socialize
- Support parents and caregivers
- Address underlying factors
- Mobilize communities and partners

Read more at [Devex](#).

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## Electric Plane Hits the Skies In 'UK First' For Climate-Friendly Flight



Credit: Zero Avia

The UK's "first ever" successful test flight of a commercial-scale, electric aircraft took place at Cranfield Airport, green aviation specialist ZeroAvia has confirmed. This successful test means the six-seater battery electric aircraft has become Europe's largest zero emission plane currently flying, according to the company, which is now planning to carry out longer-distance test flights from its Bedfordshire base later this summer.

The plane has been developed as part of the government-funded HyFlyer project, which is set to eventually culminate in a 250-300 nautical mile test journey from the Orkney Islands in Scotland to an as-yet unspecified destination elsewhere in the UK. Having demonstrated its new electric drive train the company intends to develop a hydrogen fuel cell powertrain and convert a 19-seat aircraft to run on hydrogen that could be in commercial use as early as 2023. [Read More at Business Green](#)



# Montréal Wins Bid To Host Headquarters For Global Biodiversity Research Networks



Credit: Eva Blue / Tourisme Montréal

The Quebec Centre for Biodiversity Science, in partnership with McGill University, Université de Montréal, Université de Sherbrooke, Fonds de recherche du Québec - Natures et Technologies, and Montréal International, have won the bid to host the Group on Earth Observations - Biodiversity Observation Network (GEO BON). GEO BON, a global research network and community of practice dedicated to monitoring the Earth's biodiversity, announced the relocation of its headquarters from Leipzig, Germany to Montréal. "This selection confirms both Montreal as a world-leader in supporting organizations focused on sustainability, and McGill University as a major centre of research into this field of crucial importance to our planet," stated McGill Vice-Principal (Research and Innovation) Martha Crago. With a rapidly growing network of close to 1000 members from more than 550 institutions and 90 countries, GEO BON combines state-of-the-art research, with the common goal of enhancing the value of biodiversity data and making policy. Québec already hosts over 70 international agencies that contribute not only to the economic prosperity of its cities and regions, but also to the advancement of research in numerous fields of activity. [Read More at McGill](#).

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## The Evidence Is Strong: Air Pollution Seems To Cause Dementia



A few years ago I stood in a cramped trailer beside the busy 110 freeway in Los Angeles as researchers at the University of Southern California gathered soot thrown off by vehicles pounding by just a few yards from their instruments, which rattled whenever a heavy truck passed. I was there to learn about how scientists were beginning to [link air pollution](#)—from power plants, motor vehicles, [forest fires](#), you name it—to one of the least understood and most frightening of illnesses: [dementia](#). At that time, as I reported in [Mother Jones](#), the research implicating [air pollution](#) as one factor that can contribute to dementia was alarming, consistent and, ultimately, “suggestive.” Since then scientists have published a wave of studies that reveal that air pollution is much worse for us than we had previously imagined. The evidence is so compelling, in fact, that many leading researchers now believe it’s conclusive. “I have no hesitation whatsoever to say that air pollution causes dementia,” says Caleb Finch, gerontologist and the leader of USC’s Air Pollution and Brain Disease research network, which has completed many of these new studies. In terms of its effects on our health and welfare, Finch says, “air pollution is just as bad as cigarette smoke.” This evidence arrives alongside the alarming news that air quality is actually [worsening](#) for many cities in the United States, while the Trump administration continues its effort to [delay or roll back](#) environmental safeguards. [Read More at Wired](#)

*This story originally appeared on [Mother Jones](#) and is part of the [Climate Desk](#) collaboration.*

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## GOOD NEWS

### Japan To Halt State Support For Overseas Coal-Fired Power



Japan's government will cease much of its financing and other support measures for constructing coal-fired power plants overseas, responding to mounting global criticism of its backing for the carbon-intensive energy source as part of the country's push to build foreign infrastructure projects. Tokyo has provided state support for Japanese companies to build these plants under certain conditions, such as when projects are located in a country with no other options economically. The Japan Bank for International Cooperation is one of the public institutions that has offered financing for such construction. But Japan will unveil a new strategy for so-called infrastructure exports, and stop supporting such projects, as a rule. [Read More at Asia Nikkei](#)

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## MORE GOOD NEWS

### France Ordered To Fight Pollution Or Pay Millions In Fines



France's highest administrative body ordered the government to take immediate measures to combat pollution in Paris and several regions or pay up to 20 million euros (\$22.6 million) a year in fines. The Council of State's unusual ruling came after the government failed to fulfill a 2017 order to reduce pollution in accordance with EU rules. The national French government and local governments have announced multiple anti-pollution measures in recent years, and the Council found they met EU requirements in some regions but were insufficient in eight other regions. [Read More at TConnect](#)

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OPINION

## The Future of Travel, According to Guidebook Writer Rick Steves



Travel has changed considerably since European travel expert [Rick Steves](#) published his first guide "[Europe Through the Back Door](#)" in 1979. In the time it took Steves to write 50 guidebooks, host 10 seasons of "Rick Steves' Europe" on TV, start a public radio show, release a mobile app for audio tours and grow a company that guides 30,000 people through Europe each year, he's adapted to innumerable changes to the industry. Now Steves is adjusting to the next major development in travel: the [coronavirus](#) pandemic. From his home in Edmonds, Wash. (where he's spending his first summer in 30 years, as he'd normally be in Europe for the season), Steves recently discussed the future of travel with The Washington Post. [Read More at Washington Post](#)

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## SPOTLIGHT ON POLICY

### **The Lancet's Editor: "The UK Response To Coronavirus Is The Greatest Science Policy Failure For A Generation"**



Source: Antonio Olmos/The Observer

There is a school of thought that says now is not the time to criticise the government and its scientific advisers about the way they have handled the Covid-19 pandemic. Wait until all the facts are known and the crisis has subsided, goes this thinking, and then we can analyze the performance of those involved. It's safe to say that Richard Horton, the editor-in-chief of the influential medical journal *The Lancet*, is not part of this school.

An outspoken critic of what he sees as the medical science establishment's acquiescence to government, he has written a book that he calls a "reckoning" for the "missed opportunities and appalling misjudgments" here and abroad that have led to "the avoidable deaths of tens of thousands of citizens". [Read More at The Guardian](#).

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## Queen's University Launches Website For Indigenous Initiatives



Credit: Queens

Queen's University, in Kingston, Ontario has launched the Office of Indigenous Initiatives website, an online space where campus community members can learn about and engage with the university's Indigenous research, initiatives and cultural services. The site is designed to guide users through key themes and initiatives, including Truth and Reconciliation, Indigenous Ways of Knowing, and Decolonizing and Indigenizing. It also showcases Indigenous 'faces, spaces and places' at Queen's, making it easier for Queen's community members to connect with campus Elders, as well as Indigenous services for students and employees. "It is important for reconciliation that Indigenous voices be incorporated into the work—the projects, research and initiatives – that take place here at Queen's," says Kanonhsyonne (Janice Hill), Associate Vice-Principal (Indigenous Initiatives and Reconciliation). [Read More at QueensU.](#)

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## Quote Of The Week

**"Thankfully, many public health officials have shifted from encouraging social distancing during the COVID-19 pandemic to encouraging physical distancing instead...We ought (not) to be isolating ourselves emotionally or socially...Many mental health problems are rooted in isolation and loneliness. Maintaining long-term distance from each other poses serious challenges to those with mild, moderate or severe mental health conditions.**

**"Being connected to others is foundational to our mental well-being...Through these harsh times of physical distancing, let's continue to show each other that we are present. Let's turn this moment into the pivotal transformation we've needed all along -- towards stronger communities, rooted in empathy. This crisis can spur lasting change."**

*Dr. Farah Shroff, a faculty member in the Department of Family Practice and the School of Population and Public Health in the University of British Columbia Faculty of Medicine.*

Read More at Rabble

## Upcoming Events

- September 22nd - 23rd: U.N. [Summit on Biodiversity](#) (New York City, USA)
- October 19-22, 2020 (Virtual): Canadian Conference for Global Health: Global Health In A Changing Climate
- November 9th-19th: [2020 UN Climate Change Conference](#) (UNFCCC COP26) (Glasgow, Scotland) - **Postponed until latter 2021**
- June 7th-9th 2021: [Executive Course: Global Health Diplomacy](#) (University of Toronto, Canada)

## FYI#1 SPOTLIGHT ON MEDIA:

# Why Isn't This Map in the History Books?



Credit: Tribes of the Indian Nation. ( Emerson Kent )

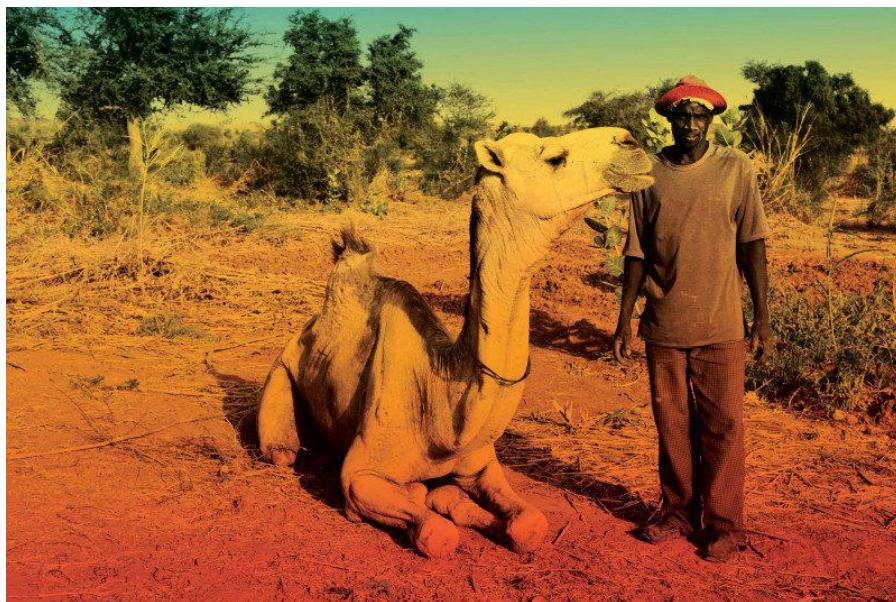
By the age of 10, most children in the United States have been taught all 50 states that make up the country (and most likely the same in Canada with our ten provinces). But centuries ago, the land that is now North America was a very different place. Over 20 million Native Americans dispersed across over 1,000 distinct tribes, bands and ethnic groups populated the territory. Today, Native Americans account for just 1.5% of the U.S. and 5% of Canada's population, and much of their history has been lost, particularly as today's education system is sadly lacking when it comes to teaching the rich and complex history of these lands. Here we examine little-known facts about Native Americans, which should be included in every history book.

Today, there is not a single accurate historical map that reflects the location of Native American tribes in North America in a single time period, as the post-European contact situation was ever changing, with contact occurring at different times in different areas.

[Read More at Ancient Origins](#)

FYI #2

## Adapting To A Drier Planet



Credit: CIF/EMMANUEL KOUASSI

Water is our most vital resource, but climate change is making weather patterns and seasonal rainfall less predictable and more erratic. Now, drought and water scarcity are increasingly threatening the lives and livelihoods of vulnerable communities around the planet. In this episode of *Heat of the Moment*, host John D. Sutter speaks with **Peter Gleick**, president emeritus of the Pacific Institute, and a leading global thinker on the relationship between water scarcity and violent conflict.

Later on, reporter **Portia Crowe** travels to Niger to see how investments in drip irrigation are helping farmers adapt to more volatile weather patterns. She visits a few sites set up by the International Finance Corporation and Netafim. An exploration of the wider ramifications of water scarcity and what's being done to help those affected.

Listen to this Podcast at Foreign Policy

## Growers Could Reap Benefits From Predictive Artificial Intelligence (AI)



Credit: Becky Davis/Oxfam

Overseas crops are grown to a specified shipment window, providing retailers with a constant supply of fresh produce; if windows are missed, growers are generally responsible for making up the shortfall. Purchasing produce from a third-party supplier or airfreight are the most common ways to do this, but both are expensive. Costs for one of the UK's leading food and farming business run to £120k per week – just for sweetcorn.

These costs can be reduced substantially if a grower knows in good time that a shipment will be missed. The more time the grower has to source and negotiate alternatives, the lower the cost will be. "This was the catalyst for creating our Harvest Timing Prediction AI," explains Anna Woodley, Head of Sales at Agrimetrics. "We realized that increasing the notice period by even a couple of weeks would result in huge savings. To put this in perspective, one customer estimates savings of more than £6m per year. That's equivalent to a 15% increase in gross profit."

Agrimetrics is currently predicting the correct shipment window for sweetcorn crops with up to 93% accuracy, which can be done four weeks in advance. They claim that accuracy and timeframes can be increased further given access to more data.

Read more at Fresh Talk Daily

FYI #4

## The Coming Coconut Crisis



Credit: JERVIS GONZALES AND THE PULITZER  
CENTER

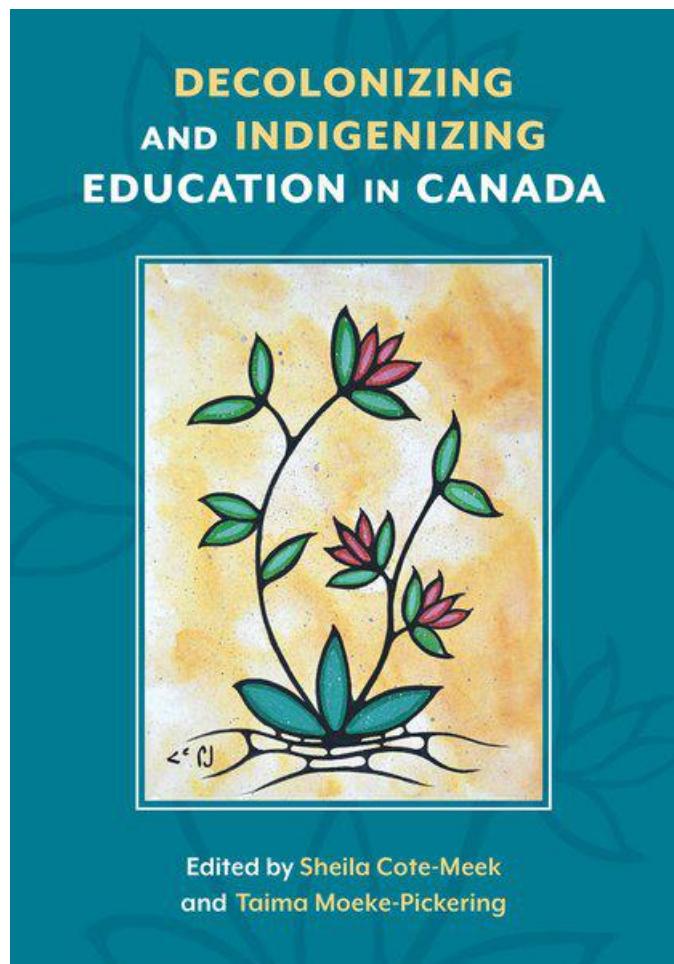
In the United States and Europe, coconut-based products are booming in popularity. Coconut oil, coconut cream, coconut water and activated coconut-shell charcoal have all become popular cooking, health and cosmetic choices, appearing on more and more shelves and ingredient labels across the country. "Coconut really got on the radar 10 to 15 years ago," said Winfried Fuchshofen, director of the Fair Trade Sustainability Alliance (Fair TSA), a nonprofit organization working on fair trade and ethical supply chain management. "Now, you have really a range of products, and I see that there is still a big growth opportunity for coconut."

In theory, then, these should be boom times for coconut farmers in the world's major coconut-growing countries, the Philippines and Indonesia. Instead, the situation on the ground is far from rosy due to low prices and limited investments. Even more worrying is a looming production crisis that could result in a shortage of coconut in the near future. "Key challenges facing coconut farmers include insecure farmer income, insufficient supply of productive coconut trees, low coconut yields, and risk of deforestation," said Christy Owen, chief of party at USAID Green Invest Asia.

[Read more at Sierra Club](#)

## FYI #5: SUMMER READING

### New Book: Decolonizing and Indigenizing Education in Canada



Credit: Canadian Publishing

This expansive collection, edited by Sheila Cote-Meek and Taima Moeke-Pickering, explores the complexities of decolonization and indigenization of post-secondary institutions. Seeking to advance critical scholarship on issues including the place of Indigenous epistemologies, knowledges, curriculum and pedagogy, *Decolonizing and Indigenizing Education in Canada* aims to build space in the academy for Indigenous peoples and resistance and reconciliation. This 15-chapter collection is built around the two connecting themes of Indigenous epistemologies and decolonizing post-secondary institutions. Aiming to advance and transform the Canadian academy, the authors of this volume discuss strategies for shifting power dynamics and Eurocentric perspectives within higher education.

Written by academics from across Canada, the text reflects the critical importance of the discourse on truth and reconciliation in educational contexts and how these discourses are viewed in institutions across the country. This expansive resource is essential to students and scholars focusing on Indigenous knowledges, education and pedagogies, and curriculum studies...and everyone interested in their own education about these issues.

## FYI#6: SPOTLIGHT ON EDUCATION

### New Agreement Supports Enhanced Environmental Education In Public Schools



Credit: Rob Kunz, Saskatoon Public Schools

The University of Saskatchewan has signed a Memorandum of Understanding with Saskatoon Public Schools (SPS) and the Sustainability and Education Policy Network (SEPN) to support sustainability and climate change education for SPS administrators and teachers. Included in the agreement is the development of programming that helps K-12 students gain knowledge and be active in sustainable living, engaged citizenship and well-being. "We hope this will lead to actual changes in our schools, not just learning what climate change is," said Grade 8 students Helena Blenkinsop and Vaeda Bly. "We want to hear our teachers say, 'We're going to tell you about this issue and we're also going to tell you what we're doing about it as a school.'"

Read more at USASK

## ENDSHOTS

### VERTIGO EMERGENCY ROOM VISIT IN DAYS OF COVID-19

TORONTO, ONTARIO

JULY 9, 2020



#### COUNTRIES RANKED BY NUMBER OF NEW COVID-19 CASES, JULY 9-16, 2020

Source: <https://www.washingtonpost.com/graphics/2020/world/mapping-spread-new-coronavirus/>

Country	Reported cases	Change from July 9		
		Total ▼	Pct.	Deaths
U.S.	3,504,591	▲ 405,151	+13%	134,698
Brazil	1,966,748	▲ 210,969	+12%	75,366
India	968,876	▲ 201,580	+26%	24,915
South Africa	311,049	▲ 72,710	+31%	4,453
Russia	751,612	▲ 45,372	+6%	11,920
Mexico	317,635	▲ 35,352	+13%	36,906
Colombia	159,898	▲ 31,260	+24%	5,969
Peru	337,751	▲ 21,303	+7%	12,417
Bangladesh	196,323	▲ 20,829	+12%	2,496
Argentina	111,146	▲ 20,453	+23%	2,050
Saudi Arabia	243,238	▲ 19,911	+9%	2,370
Pakistan	257,914	▲ 17,066	+7%	5,426
Iran	267,061	▲ 16,603	+7%	13,608
Chile	321,205	▲ 14,989	+5%	7,186
Turkey	215,940	▲ 5,978	+3%	5,419
Spain	257,494	▲ 4,438	+2%	28,413
Britain	293,469	▲ 4,315	+1%	45,138
Qatar	105,477	▲ 3,367	+3%	152
France	210,568	▲ 3,212	+2%	30,123
Germany	201,288	▲ 2,287	+1%	9,086
Canada	110,693	▲ 2,037	+2%	8,857
Italy	243,506	▲ 1,143	0%	34,997



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## COUNTRIES RANKED BY PERCENT INCREASE OF NEW COVID-19 CASES, JULY 9-16, 2020

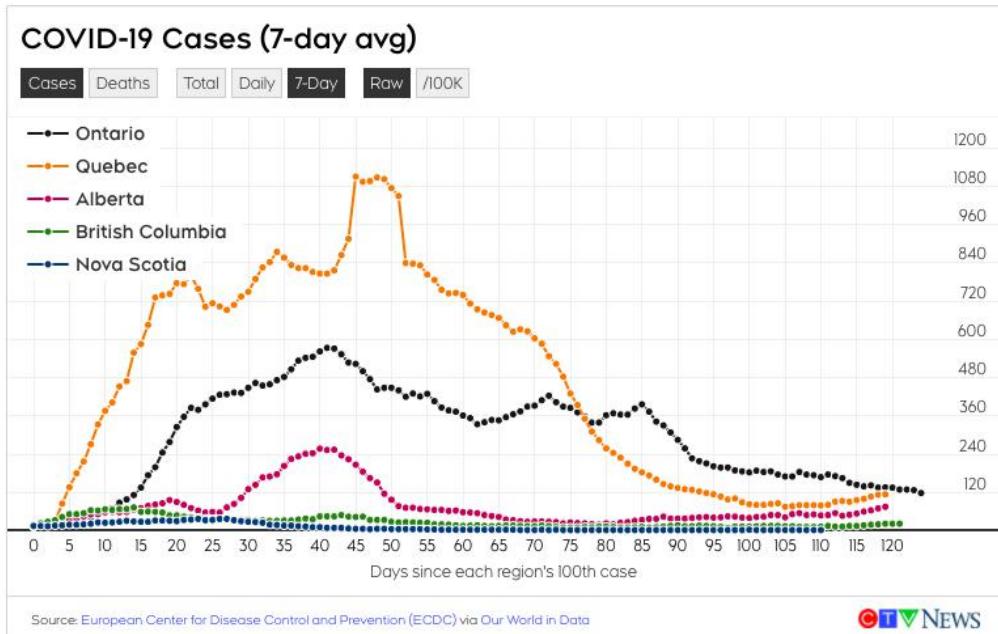
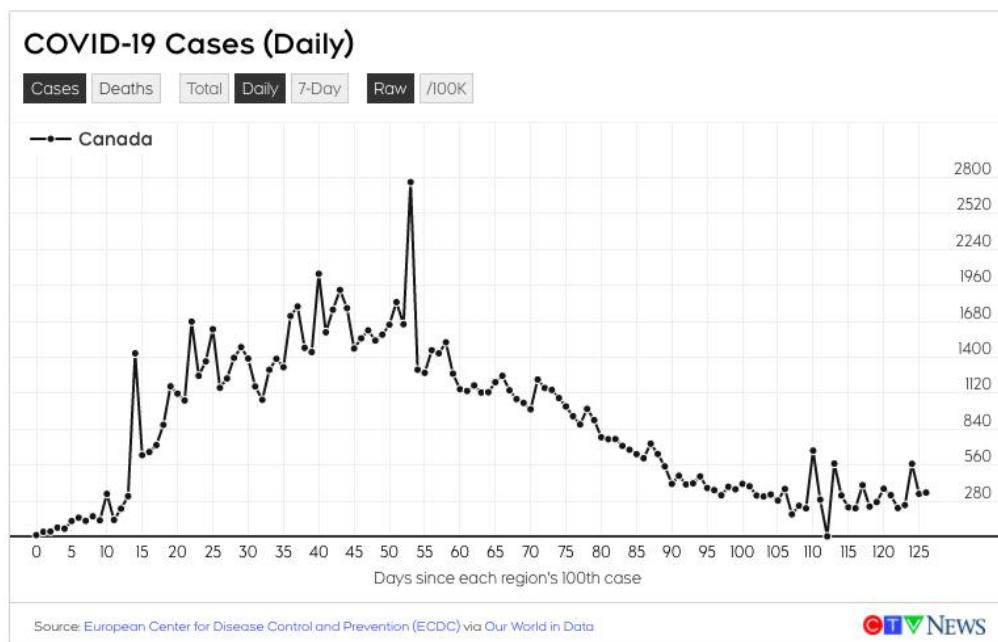
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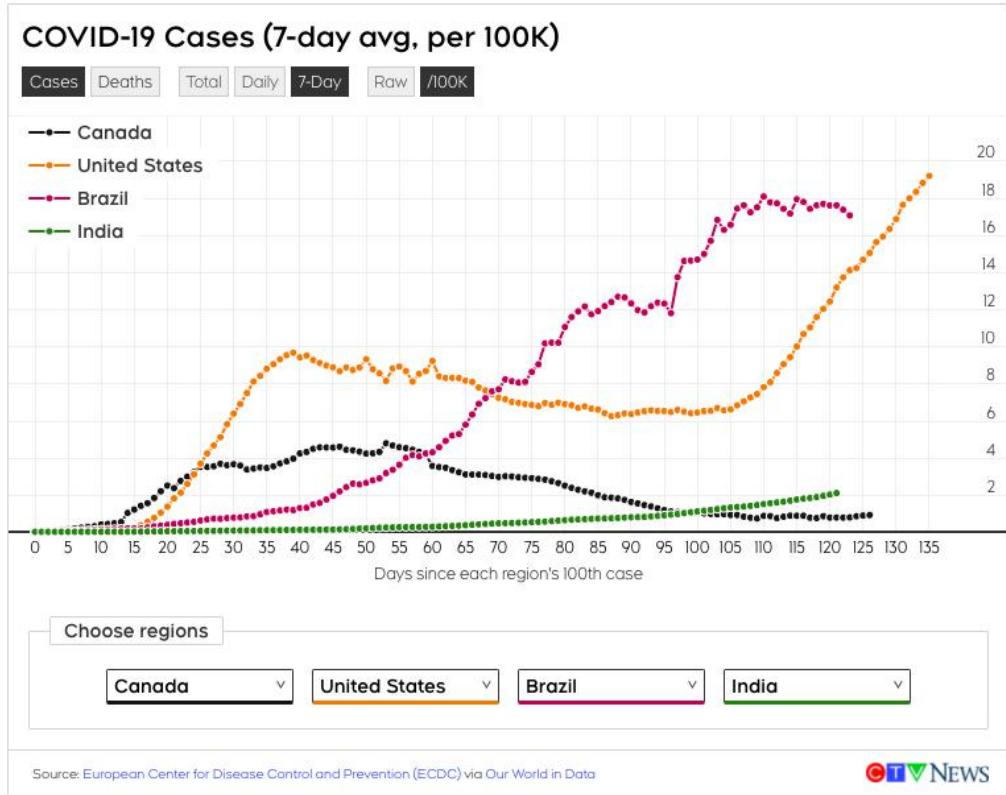
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Saudi Arabia	243,238	▲ 19,911	+9%	2,370
Pakistan	257,914	▲ 17,066	+7%	5,426
Peru	337,751	▲ 21,303	+7%	12,417
Iran	267,061	▲ 16,603	+7%	13,608
Russia	751,612	▲ 45,372	+6%	11,920
Chile	321,205	▲ 14,989	+5%	7,186
Qatar	105,477	▲ 3,367	+3%	152
Turkey	215,940	▲ 5,978	+3%	5,419
Canada	110,693	▲ 2,037	+2%	8,857
Spain	257,494	▲ 4,438	+2%	28,413
France	210,568	▲ 3,212	+2%	30,123
Britain	293,469	▲ 4,315	+1%	45,138
Germany	201,288	▲ 2,287	+1%	9,086
Italy	243,506	▲ 1,143	0%	34,997



ALL DATA BELOW AS OF JUNE 16, 2020

# Canada (Population 37.59 million, 2019)





## COVID-19 Deaths (7-day avg, per 100K)





## COVID-19 Cases (7-day avg, per 100K)

Cases Deaths Total Daily 7-Day Raw /100K

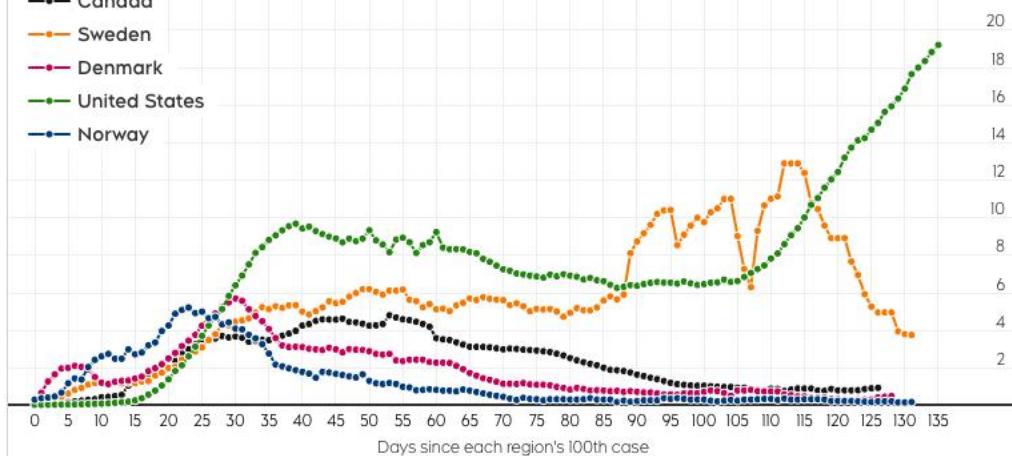
—●— Canada

—○— Sweden

—●— Denmark

—●— United States

—●— Norway



Choose regions

Canada

Sweden

Denmark

United States

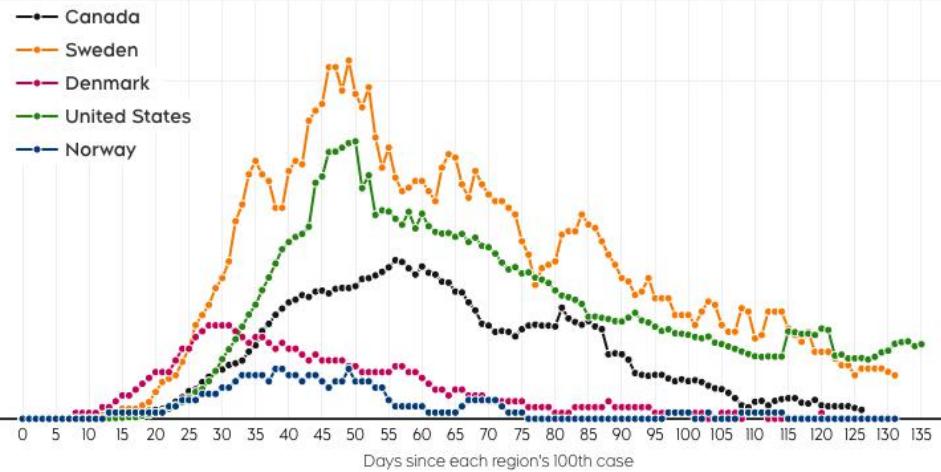
Norway

Source: European Center for Disease Control and Prevention (ECDC) via Our World in Data

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## COVID-19 Deaths (7-day avg, per 100K)

Cases Deaths Total Daily 7-Day Raw /100K



Choose regions

Canada

Sweden

Denmark

United States

Norway

Source: European Center for Disease Control and Prevention (ECDC) via Our World in Data

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**D&D Education Services, Inc.**

49 Beresford Avenue, Toronto,  
Ontario, Canada M6S 3A9

Publisher and Editor: Dr. David Zakus

[david.zakus@utoronto.ca](mailto:david.zakus@utoronto.ca)

Production: Aisha Saleem & Eunice Anteh

Social Media: Evans Oppong

Website, Index and Advisory: Gaël Chetaille, Jonathan  
Zakus, Dr. Aimée-Angélique Bouka, Elisabeth Huang &  
Laura Yang

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[planetaryhealthweekly@gmail.com](mailto:planetaryhealthweekly@gmail.com)

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