

[View in browser](#)**CURRENT NEWS ON ECOLOGICAL WELLNESS AND GLOBAL HEALTH****Volume 6, Number 43** <https://planetaryhealthweekly.com> **October 22, 2020**

Hi, These last days I've been reflecting on reflection. Wow, we have so much to reflect on nowadays, whether it be life, death, love, friendship, religion, science, power and politics, music and the arts, environmental destruction, climate warming, personal and population health and wellbeing, and of course the pandemic. Oh, the pandemic, the scourge of the year that is occupying so much of our time and lives, causing so much pain, death, anxiety, anguish, uncertainty, poverty and even division. Just about everyone has some kind of unique opinion about the virus and its consequences, and reflections on it are being hampered by much misinformation. There are even many who don't even believe it exists, I guess kind of like those still doubting the spherical nature of our Earth. Go for it, but don't get in the way of others trying to help, heal and survive with minimum stress. So I asked myself, what are my major reflections this week (see ENDNOTES to see)? I love reflections in that they can give insight into who we are, what's above us, and what's right in front of us...showing all in new perspective, sometimes clear, sometimes murky, sometimes obstructed even altered. Clear consensus thinking and reflection is central to global health and environmental wellness, but there's too much murkiness now, creating great confusion and harm.

Just look at today's stories in the **Planetary Health Weekly** (#43 of 2020) for a range of reflections and insights into what could and should be our direction, the place to direct the finite energy we each have to make good in the world and ensure a reasonable and safe future. Read about:

- Total destruction and fires tearing across South America,
- Coronavirus Updates:
 - Covid-19 and the fascinating science of what happens in the lungs,
 - From immunity to 'long' Covid – key dates in the body's battle against coronavirus,

- World keeps setting one-day records for new cases,
- A perfect storm in Brazilian Amazon city and how it lost so many to Covid-19 deaths,
- Namibia auctions fishing rights to fund Covid-19 programs,
- How the White House blocked a CDC order to keep cruise ships docked,
- Chris Christie says he spent 7 days in the ICU with Covid-19,
- Excess deaths from Covid-19 in the USA,
- Covid-19 and excess all-cause mortality in 19 countries,
- Coronavirus can remain infectious for 28 days,
- New blood test predicts severe infection,
- Canadian governments support Covid-19 related mental health research, and
- Pursuing herd immunity through exposure is unethical, THEN
- Women's rights are faltering around the world,
- Botswana's mass elephant die-off,
- September breaks global and European records for hottest ever,
- One chart explains the apocalyptic fire season,
- First patient cured of HIV dies of cancer,
- Biggest CO2 drop from Covid-19's massive impact on global emissions,
- Oil scions rally wealthy peers to press banks to stop funding fossil fuels,
- Corruption in the UK,
- Is it lawful and ethical to prioritize racial minorities for Covid-19 vaccines?
- Manitoba First Nation declares state of emergency after four suicides,
- UN Chief says humanity must stop 'waging war on nature,'
- Test your environmental savvy with this quick questionnaire,
- Canada Pension Plan fuels the climate crisis,
- An atlas of health inequalities and health disparities research,
- How much water should African safari lodges use?
- New book "On Pandemics – Deadly Diseases from Bubonic Plague to Coronavirus" by David Waltner-Toews,
- Inside the mental health crisis at Canadian universities, and
- END SHOTS of reflections in water amid the Coronavirus pandemic in stats and charts.

I hope you will keep reading.

Best, david

David Zakus, Editor and Publisher



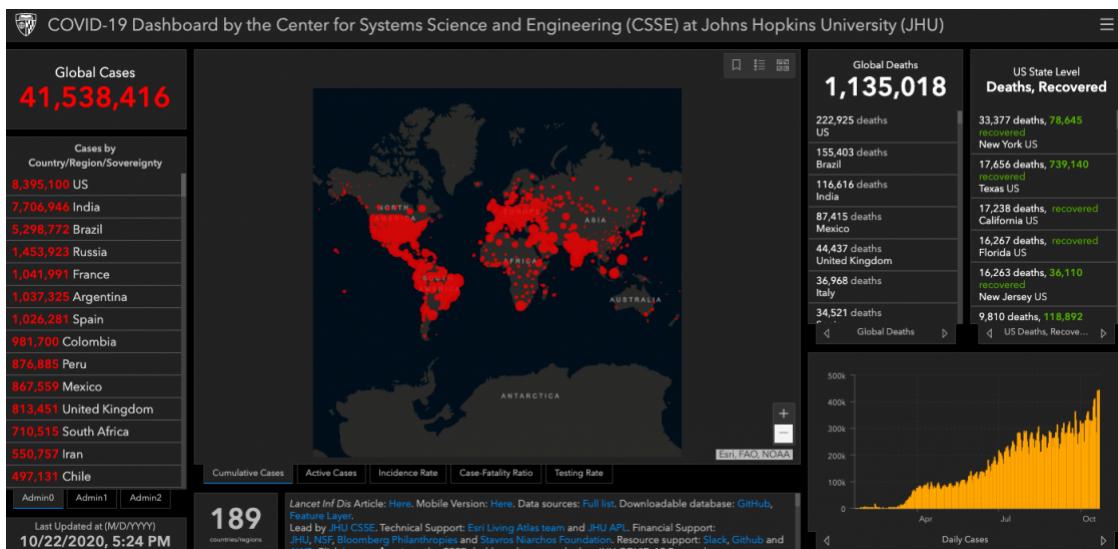
'Total Destruction': Why Fires Are Tearing Across South America



Credit: Reuters

Primateologist Martin Kowalewski is measuring the scale of the fires raging across Latin America not in satellite images, but in the number of caraya monkeys (black-and-gold howlers) that have succumbed to the flames. "Of the 20 family groups that we used to trace in the wild, each group consisting of seven or eight monkeys, at least five groups were burned alive," he tells the *Guardian*. Other animals have also perished at San Cayetano, a nature reserve in Argentina's northeastern province of Corrientes: "Carpinchos (giant South American rodents), otters, two species of fox, guazú deer, yacaré caimans, turtles, snakes. Birds are better at escaping the fire, but that was before all the deforestation. Now they have nowhere to go because there is nowhere else. The forest is so fragmented that they have nowhere to nest." [Read More at The Guardian](#)

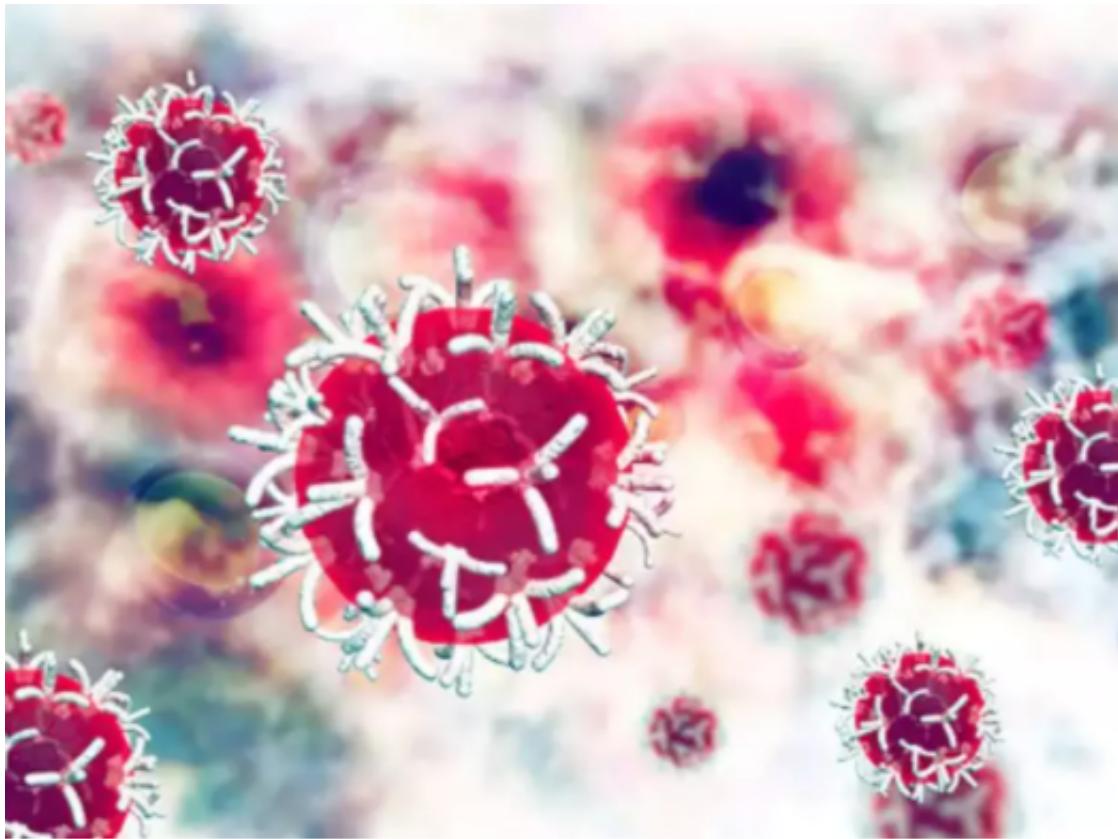
SARS-CoV-2 & COVID-19 UPDATES



Globally, in the last week, a >10% increase to the already horrific number of cases to >2.7 million, along with an increase to some 39,000 new deaths; once again just in one week. (See more stats and charts in ENDSHOTS at the end of this newsletter.)

"It is the plague in seemingly all sincerity." Bob Woodward

Covid-19 And The Fascinating Science Of What Happens In The Lung



Credit: Telegraph

People with Covid-19 and people with tuberculosis (TB) can experience similar symptoms such as coughing and breathing difficulties, as both diseases affect the lungs. Exactly how these diseases affect the lungs, however, differs. Professor Keertan Dheda, general physician, pulmonologist and a critical care specialist who heads up the Division of Pulmonology at Groote Schuur Hospital and the University of Cape Town, explains that SARS-CoV-2, the virus causing Covid-19, infects the lining of the respiratory tract, including the nose and the cells lining the tiny air sacs of the lung (also known as the alveoli). "Associated with each air sac is a tiny network of blood vessels which allow the transfer of oxygen from the lung air sac into the blood," says Dheda.

"The virus also directly infects the cells lining the blood vessels. Thus, there is infection of both the air sac and the blood vessel lining (also known as the alveolar-capillary unit). This initial infection," he says, "results in fluid and inflammatory cells accumulating in millions of these tiny air sacs." Read more at: [DailyMaverick](#)

MORE COVID-19 STORIES:

At Telegraph: [From Immunity to 'Long' Covid': The Key Dates In The Human Body's Battle Against Coronavirus](#)

At Voa News: [WHO: World Sets One-day Record of Over 350,000 New Coronavirus Cases](#)

At Telegraph: [A Perfect Storm How Did One City \(in Brazil\) Lose So Many to Covid-19?](#)

At Daily Maverick: [Namibia Fishing Auction for COVID-19 Cash Flops](#)

At NY Times: [White House Blocked C.D.C. Order to Keep Cruise Ships Docked](#)

At CNN: [Chris Christie Says He Spent 7 Days in ICU Before Recovering from Covid](#)

At Jama Network: [Excess Deaths From COVID-19 and Other Causes in the U.S., March-July 2020](#)

At Jama Network: [COVID-19 and Excess All-Cause Mortality in the U.S. and 18 Comparison Countries](#)

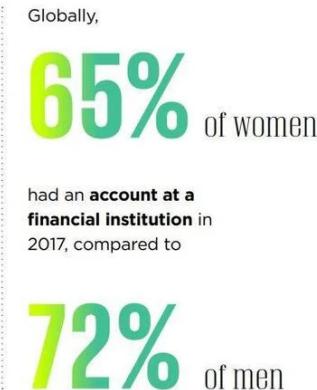
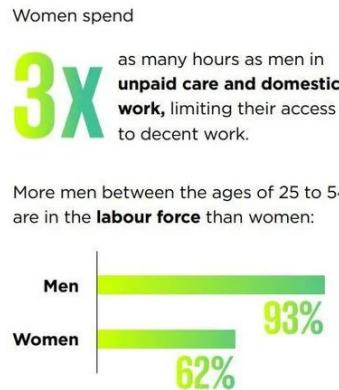
At Telegraph: [Australian Study Finds Coronavirus Can Remain Infectious for 28 days](#)

At Science Daily: [New Blood Test Predicts Which COVID-19 Patients Will Develop Severe Infection](#)

At IH Today: [Government of Canada and Provincial Partners Support Research Addressing Mental Health Impacts of COVID-19 on Canadians](#)

Women's Rights Are Faltering, United Nations Says

Barriers persist: Many women are stuck in low-paid work, equal pay remains elusive and men occupy most senior positions



Credit: UNITED NATIONS

The U.N. just commemorated 25 years since a world declaration was agreed to in Beijing to advance women's rights. But progress is faltering, the U.N. says. "Due to the

[pandemic](#), it is estimated that in 2021, 47 million women and girls will be pushed into extreme poverty, bringing the total to 435 million," the U.N. said in a [report](#) adding, "By 2021, for every 100 men aged 25 to 34 living in extreme poverty, there will be 118 women — a gap that is expected to increase to 121 women per 100 men by 2030.". [Read More at CBS News](#)

Botswana's Mass Elephant Die-off



Credit: Handout

Hundreds of elephants died in [Botswana](#) earlier this year from ingesting toxins produced by cyanobacteria, according to government officials who say they will be testing waterholes for algal blooms next rainy season to reduce the risk of another mass die-off. The [mysterious death](#) of 350 elephants in the Okavango delta between May and June baffled conservationists, with [leading theories](#) suggesting they were killed by a rodent virus known as EMC (encephalomyocarditis) or toxins from algal blooms. [Read More at National Observer](#).

September Breaks Global and European Records for Hottest Ever



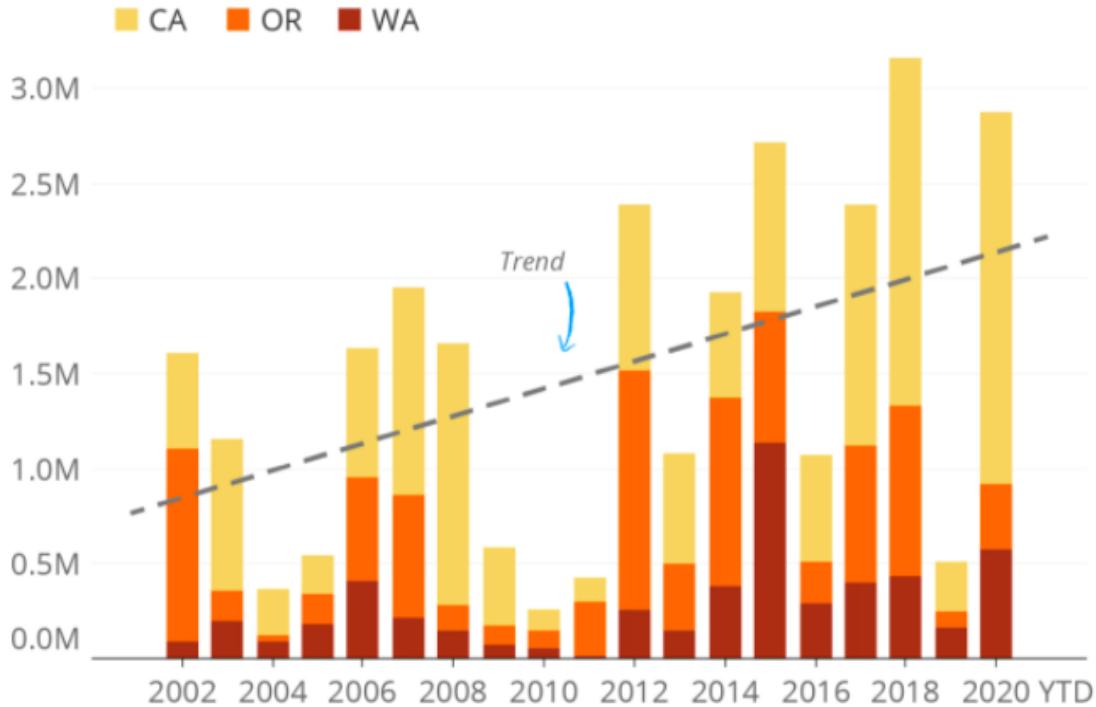
Credit: Paul Marriott/Rex/Shutterstock

The world this year experienced its hottest September on record, scientists have reported. Surface air temperatures last month were 0.05C warmer than in September 2019, making it the hottest September on record globally, experts from the European Union's [Copernicus Climate Change Service](#) (C3S) said. It was also the hottest September [Europe](#) has seen, beating the previous record for the continent, set in 2018, by around 0.2C. Temperatures were also well above average in other parts of the world including in the Middle East, parts of South America and Australia. [Read More at The Guardian](#)

See also at The Grist: [How Apocalyptic This Fire Season Is - In 1 Flaming Chart](#)

Life on Mars

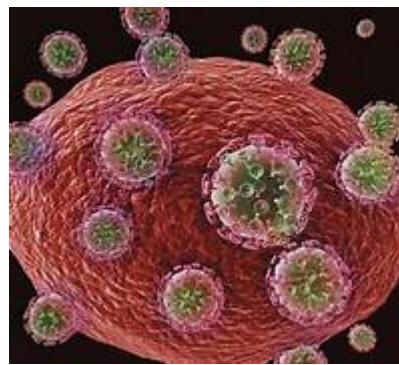
U.S. Western wildland acres burned, millions



Source: National Interagency Fire Center
2020 data are current through September 9, 2020.

grist

First Patient Cured of HIV Dies of Cancer



The person who made history as “the [Berlin patient](#),” the first person known to be cured of HIV, has died. He was 54. The cause was a return of the cancer that originally prompted the [unusual bone marrow](#) and stem cell transplants Mr. Brown got in 2007 and 2008. Brown was diagnosed with HIV in 1995 and in 2007 developed leukaemia. His treatment involved destroying his bone marrow and having a bone marrow transplant from a donor who had a rare mutation in part of their [DNA](#) and was

naturally resistant to HIV. This meant Brown no longer needed anti-viral drugs and he remained free of HIV for the rest of his life. [Read More at Economic Times.](#)

GOOD NEWS

Biggest Carbon Dioxide Drop: Real-time Data Show COVID-19's Massive Impact On Global Emissions



Credit: diy13 / stock.adobe.com

While the ongoing coronavirus pandemic continues to threaten millions of lives around the world, the first half of 2020 saw an unprecedented decline in CO₂ emissions -- larger than during the financial crisis of 2008, the oil crisis of the 1979, or even World War II. An international team of researchers has found that in the first six months of this year, 8.8 percent less carbon dioxide was emitted than in the same period in 2019 -- a total decrease of 1551 million tonnes. The groundbreaking study not only offers a much more precise look at COVID-19's impact on global energy consumption than previous analyses. It also suggests what fundamental steps could be taken to stabilize the global climate in the aftermath of the pandemic." [Read More at Science Daily](#)

MORE GOOD NEWS

Oil Scions Rally Wealthy Peers To Press Banks On Climate



Credit: Mark Wilson/Getty Images

Members of the Rockefeller family are leveraging their fortune and network of wealthy friends to pressure major U.S. banks to stop investing in fossil fuels that are driving climate change. The Rockefellers, whose fortunes originally came from John D. Rockefeller's Standard Oil Co., have been critical of companies like Exxon Mobil for efforts to block action on climate change. Their new initiative seeks to build on the momentum generated by climate activists who have seen success in convincing banks and asset managers to rethink their investments in oil, gas and coal. [Read More at Politico](#).

OPINION

If You Think The UK Isn't Corrupt, You Haven't Looked Hard Enough



Credit: Ben Jennings

Fear, shame, embarrassment: these brakes no longer apply. The government has discovered that it can bluster through any scandal. No minister need resign. No one need apologize. No one need explain. As public outrage grows over the billions of pounds of coronavirus contracts issued by the government [without competition](#), it seems determined only to award more of them. Never mind that the consulting company Deloitte, whose personnel circulate in and out of government, has been strongly criticized for the [disastrous system](#) it devised to supply protective equipment to the NHS. It has now been granted a massive new contract to test the population for Covid-19. [Read More at The Guardian](#)

SPOTLIGHT ON POLICY

Is It Lawful And Ethical To Prioritize Racial Minorities For COVID-19 Vaccines?



Credit: Lynne Shallcross/KHN illustration; Getty Images

Coronavirus disease 2019 (COVID-19) has disproportionately affected racial minorities in various areas resulting in higher rates of infection, hospitalization and death. With a limited supply after the initial approval of a safe and effective vaccine, difficult legal and ethical choices will have to be made on priority access for individuals. The U.S. National Academies of Sciences, Engineering and Medicine (NASEM) has recommended prioritization of racial minorities who are “worse off” socioeconomically and epidemiologically. The World Health Organization (WHO) similarly cautioned that “colorblind” allocation frameworks could perpetuate or exacerbate existing injustices. [Read More JAMA Network](#).

SPOTLIGHT ON INDIGENOUS WELLNESS

Manitoba First Nation Declares State of Emergency After Four Suicides



Credit: Facebook/Sioux Valley Dakota Nation Off Reserve Members

A Manitoba First Nation declared a state of emergency effective October 9 after a rash of suicides in the community. According to a news release issued on Oct. 10 from the Assembly of Manitoba Chiefs (AMC), there had been three suicides in Sioux Valley Dakota Nation in the past week, and four in the past month. The AMC noted there had also been several documented suicide attempts. [Read More at CTV News](#)



Credit: National Oceanic and Atmospheric Administration (NOAA)

Quote Of The Week

Humanity Must Stop 'Waging War on Nature' before it destroys Planet Earth

warns UN Chief , Antonio Guterres, at the recent first ever Biodiversity Conference (September 30, 2020)

"Humanity is waging war on nature. And we need to rebuild our relationship with it."

He reminded that 10 years ago, "**we secured commitments that should have protected our planet,**" but "**we have largely failed.**" According to Guterres, nature is "resilient" and the only way it can recover from the damage is when "we ease our relentless assault."

Participating were more than 100 heads of state, but not the USA.

Read More at IB Times

Upcoming Events

- November 9th-19th: [2020 UN Climate Change Conference](#) (UNFCCC COP26 - Glasgow, Scotland) - Postponed until latter 2021
- November 14th - 15th: [Results Canada's National Conference \(Virtual\)](#)
- March 12th-14th: [Consortium of Universities for Global Health Virtual Conference](#)
- June 7th-9th 2021: [Executive Course: Global Health Diplomacy](#) (University of Toronto, Canada)

FYI#1 SPOTLIGHT ON MEDIA

HOW DAVID ATTENBOROUGH

ARE YOU?



Credit: WWF

Reckon you know your forests from your jungles? Want to impress your friends with your knowledge of the natural world? Well then this might be the quiz for you. Take this short test how much you know about our planet and see whether you have what it takes to be a master of nature.

(Editor's note: I scored 11/20)

[Read More at WWF](#)

FYI #2

Canada Pension Plan Fuels The

Climate Crisis With Our Own Retirement Savings

WHY IS CANADA PENSION PLAN

RISKING OUR PENSIONS & OUR FUTURE ON FOSSIL FUELS?



Credit: National Observer

Last month, Mark Machin, CEO of the Canada Pension Plan (CPP), [wrote](#) that climate change is the crisis beyond COVID-19 that we can't afford to ignore, stating that "the full effects will depend on the actions we take now and in the future." So why, then, is CPP pouring billions of our retirement savings into oil, gas and coal companies that are incompatible with a safe climate and future?

Read More at National Observer

FYI #3

An Atlas of Health Inequalities And Health Disparities Research: "How Is

This All Getting Done In Silos, And Why?"



Credit: the balance

- This atlas of health equity research identified eight clusters with varying connectivity.
- No single factor neatly explained observed fragmentation.
- Authors' geographic location, discipline, institution seem to influence citation flows.
- Author-level bibliometric analysis helps interrogate the siloed structure of research.

Read More at Science Direct

FYI #4

How Much Water Should Safari Lodges Be Using?



Credit: Simon Espley

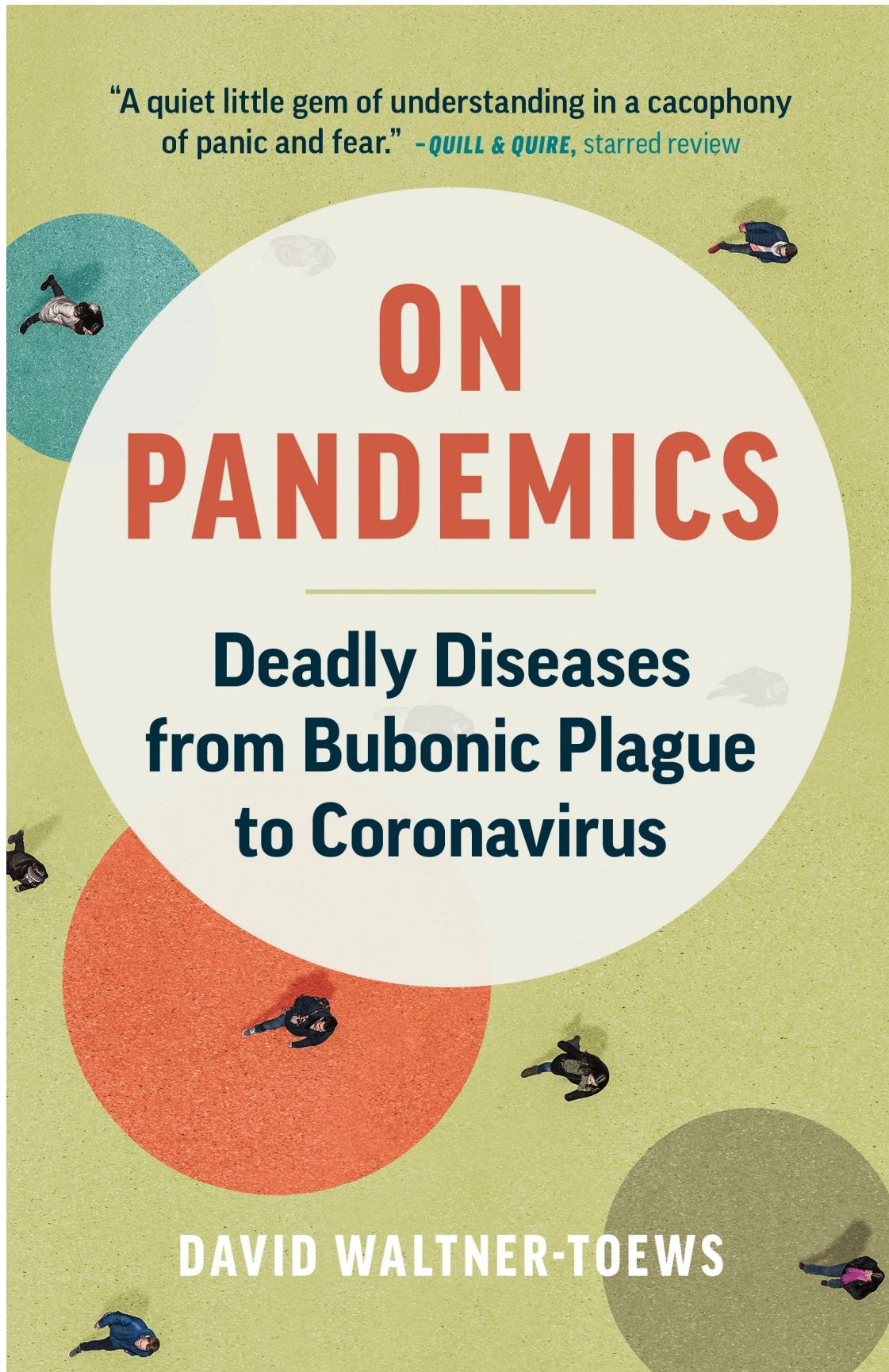
Picture the typical African safari lodge scene: a sparkling pool surrounded by lush gardens, overlooking a dry riverbed. Behind the scenes, the housekeeping staff are working their way through the laundry, cleaning linen and towels for a fresh contingent of guests, while the trackers and guides are hard at work cleaning the dust and dirt from the safari vehicles. What are their water concerns?

[Read More at Africa Geographic](#)

FYI #5: AUTUMN READING

On Pandemics - Deadly Diseases

from Bubonic Plague to Coronavirus



Credit: Book Cover

Authored by a leading Canadian epidemiologist, veterinary medicine professor emeritus and founder of Veterinarians Without Borders, this engrossing book

answers our questions about animal diseases that jump to humans—called zoonoses—including what attracts them to humans, why they have become more common in recent history, and how we can keep them at bay. Almost all pandemics and epidemics have been caused by diseases that come to us from animals, including SARS, Ebola, and—now—Covid-19.

[Read More at Grey Stone Books](#)

FYI#6: SPOTLIGHT ON EDUCATION

Inside the Mental Health Crisis at Canadian Universities



[Credit: Government of Alberta/flickr](#)

University of Calgary (Alberta, Canada) undergrads are fleeing en masse from oil and gas-friendly majors as job security in the industry plummets. And renewable energy studies are picking up the slack. With the Canadian oilpatch undergoing a seismic contraction thanks to collapsing commodity prices and pandemic-driven drops in demand, undergraduates interested in learning about the energy sector at Alberta's second-largest university are turning away from fossils, looking instead to get a formal education and expertise in some dimension of renewable energy, reports CBC. "The prospects over the next 40 years just don't look as strong [to students] as other areas of energy or other jobs, and so you're seeing that enrolment drop," said Raymond James analyst Jeremy McCrea, who compared student numbers between the falls of 2015 and 2019.

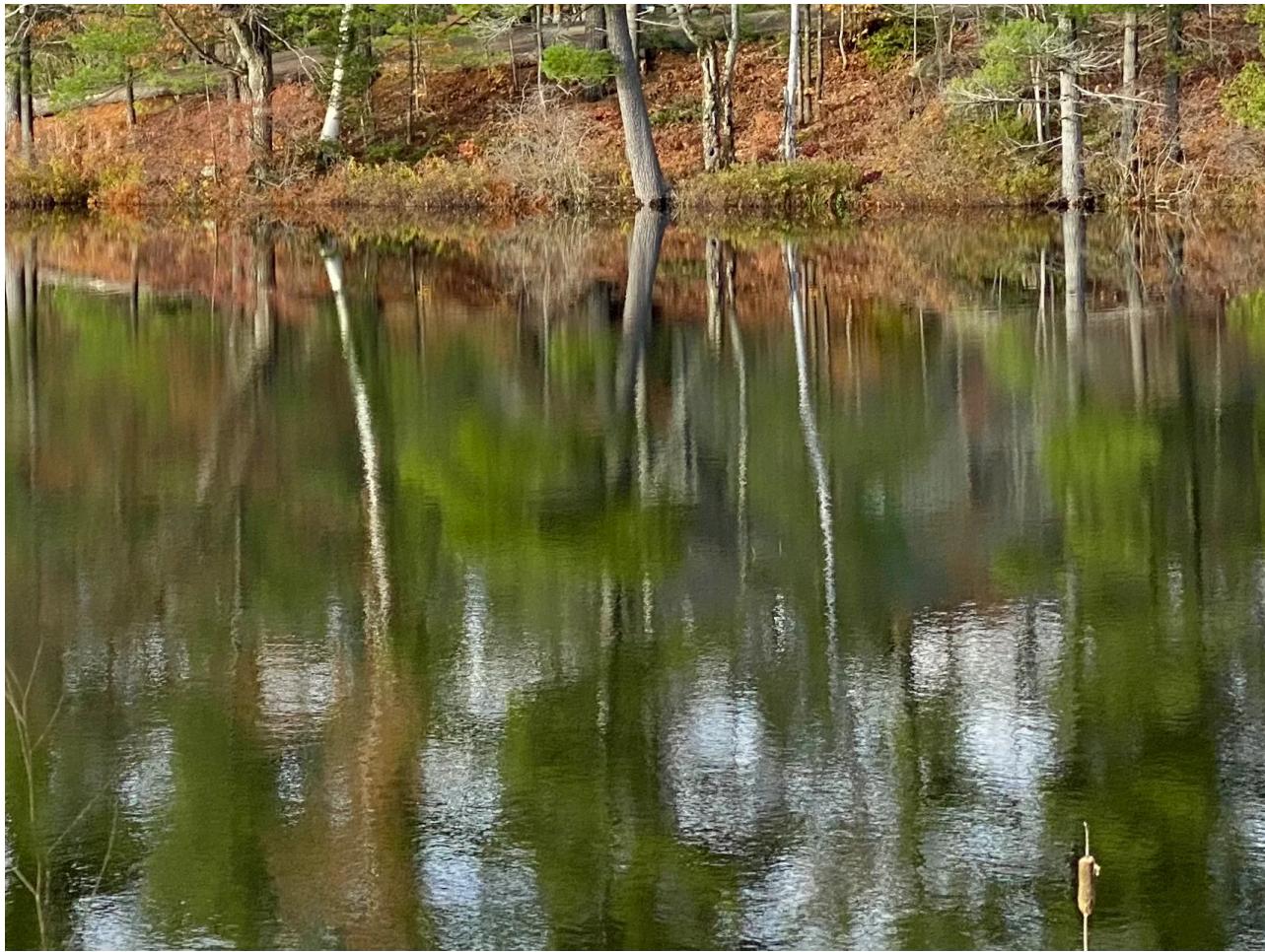
The drop in undergraduates concentrating in petroleum geology has been precipitous, declining almost 91% within the four years, "from 138 in the fall of 2015 to 13 in the fall of 2019." Though not battered quite as hard as petroleum geology, concentrations in oil and gas engineering declined 77%, from 171 to 39, over the same time span. While "enrolment figures this low may possibly lead to a shortage one day," McCrea said incoming undergrads seem increasingly interested in energy engineering studies that focus on renewables. Whereas only 46 students enrolled in the new renewable energy major at the university's Schulich School of Engineering when the program was launched in 2015, 134 showed up in the fall of 2019. The other geology-related areas of study drawing promising numbers of future students are hydrogeology, natural disasters, environmental geophysics and mining.

[Read More at Macleans](#)

ENDSHOTS

REFLECTIONS ALONG HIGHWAY 518 AND WHITEFISH LAKE, ONTARIO AMID THE CORONAVIRUS PANDEMIC

OCTOBER 19, 2020



REFLECTIONS CAN BE CLEAR, MURKY, OBSTRUCTED AND DISTORTED

COVID-19 CORONAVIRUS PANDEMIC

Last updated: October 22, 2020, 19:08 GMT

[Graphs](#) - [Countries](#) - [Death Rate](#) - [Symptoms](#) - [Incubation](#) - [Transmission](#) - [News](#)

Coronavirus Cases:

41,855,859[view by country](#)

Deaths:

1,140,335

Recovered:

31,082,645

ACTIVE CASES

9,632,879
Currently Infected Patients

9,558,115 (99%)
in Mild Condition **74,764** (1%)
Serious or Critical

[Show Graph](#)

CLOSED CASES

32,222,980
Cases which had an outcome:

31,082,645 (96%) **1,140,335** (4%)
Recovered / Discharged Deaths

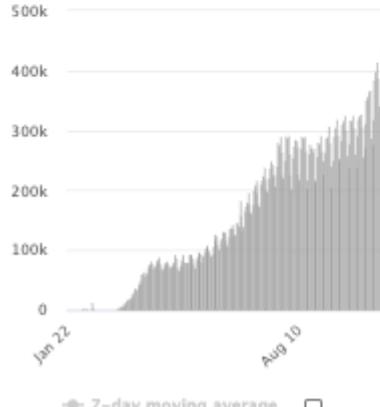
[Show Graph](#)

daily

linear

logarithmic

Daily New Cases

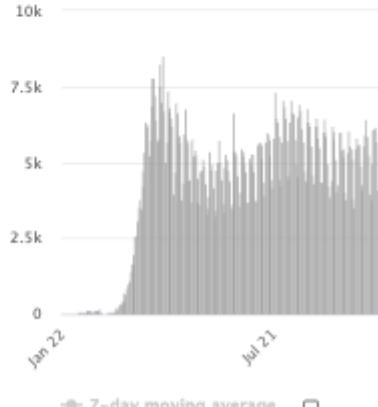
Cases per Day
Data as of 0:00 GMT+0

daily

linear

logarithmic

Daily Deaths

Deaths per Day
Data as of 0:00 GMT+0

Source: <https://www.worldometers.info/coronavirus/>



COUNTRIES RANKED BY RATE OF NEW COVID-19 CASES AND DEATHS PER CAPITA (OCTOBER 15-22, 2020) Source:

https://www.washingtonpost.com/graphics/2020/world/mapping-spread-new-coronavirus/?itid=sf_coronavirus

Case and death counts by country

Deaths	Cases	Adj. for population	Totals
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Jump to a country:

Country	Reported cases per 100k	New cases in last 7 days per 100k	Change in daily cases in last 7 days
Andorra	4,940	805	0%
Qatar	4,607	59	▲ 14%
Israel	3,404	88	▼ -11%
Panama	2,977	84	▼ -11%
Kuwait	2,839	128	▲ 15%
Peru	2,697	61	▼ -5%
Chile	2,623	56	▼ -2%
Moldova	2,618	169	▼ -15%
Montenegro	2,613	255	▼ -4%
U.S.	2,547	127	▲ 12%
Brazil	2,511	61	▲ 12%
Armenia	2,395	367	▲ 79%
Argentina	2,308	196	▲ 14%
Oman	2,248	71	▼ -11%
Belgium	2,206	535	▲ 49%
Spain	2,180	223	▲ 33%
Czechia	2,028	632	▲ 44%
Luxembourg	1,990	337	▲ 127%
Costa Rica	1,970	124	▼ -8%
Colombia	1,950	89	▲ 1%
France	1,554	285	▲ 29%
The Bahamas	1,554	171	▲ 28%
Netherlands	1,549	339	▲ 18%
UAE	1,235	95	▲ 7%
North Macedonia	1,223	159	▲ 34%
Bolivia	1,218	8	▼ -19%
Britain	1,217	205	▲ 20%
South Africa	1,210	17	▲ 6%
Iceland	1,181	119	▼ -17%
Dominican Republic	1,144	26	▼ -14%
Switzerland	1,131	300	▲ 85%
Bosnia	1,130	154	▲ 73%
Iraq	1,125	65	▲ 13%
Ireland	1,102	163	▲ 29%

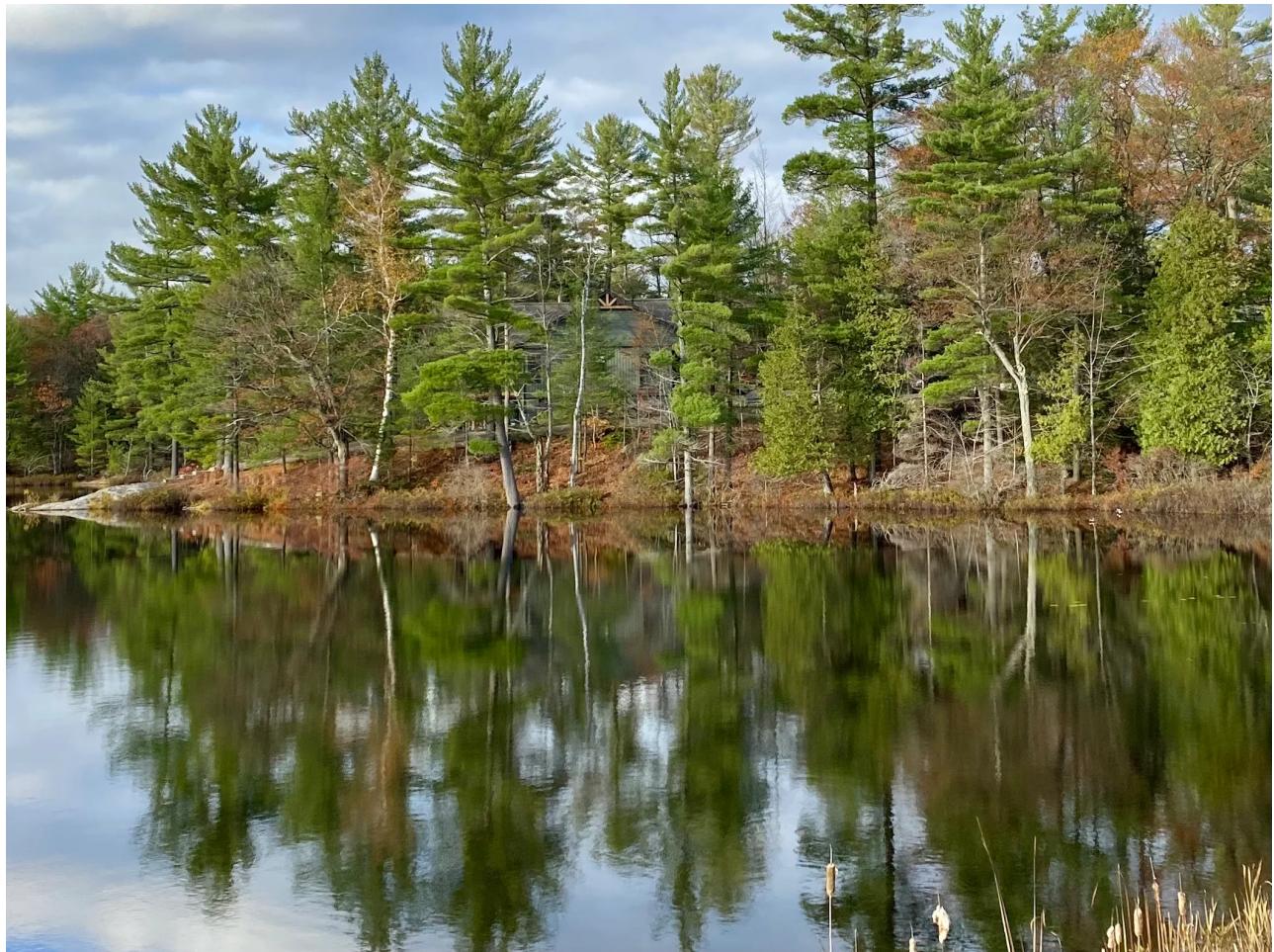
Canada is in 68th place in this ranking above.

Case and death counts by country

Deaths	Cases	Adj. for population	Totals
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Jump to a country:

Country	Reported deaths	New deaths in last 7 days		Change in daily deaths in last 7 days
		days	days	
U.S.	222,372	5,386		▲ 12%
Brazil	155,403	2,943		▲ 4%
India	116,616	5,350		▼ -7%
Mexico	87,415	2,130		▲ 15%
Britain	44,437	1,054		▲ 43%
Italy	36,968	596		▲ 88%
Spain	34,521	968		▲ 10%
France	34,237	1,091		▲ 68%
Peru	33,937	426		▼ -9%
Iran	31,650	2,045		▲ 16%
Colombia	29,464	1,007		▼ -9%
Argentina	27,519	2,177		▼ -1%
Russia	25,072	1,722		▲ 22%
South Africa	18,741	432		▼ -35%
Chile	13,792	358		▲ 14%
Indonesia	12,959	691		▲ 2%
Ecuador	12,500	194		▲ 15%
Belgium	10,539	212		▲ 30%
Iraq	10,465	379		0%
Germany	9,928	196		▲ 35%
Canada	9,908	152		▲ 12%
Turkey	9,584	504		▲ 21%
Bolivia	8,558	151		0%
Netherlands	6,980	231		▲ 32%
Philippines	6,783	286		▼ -30%
Pakistan	6,702	81		▲ 28%
Ukraine	6,213	770		▲ 14%
Romania	6,163	489		▲ 9%
Egypt	6,155	67		▲ 10%
Sweden	5,930	20		0%
Bangladesh	5,747	139		▼ -12%
Saudi Arabia	5,250	123		▼ -18%
China	4,739	0		-
Poland	4,019	711		▲ 44%





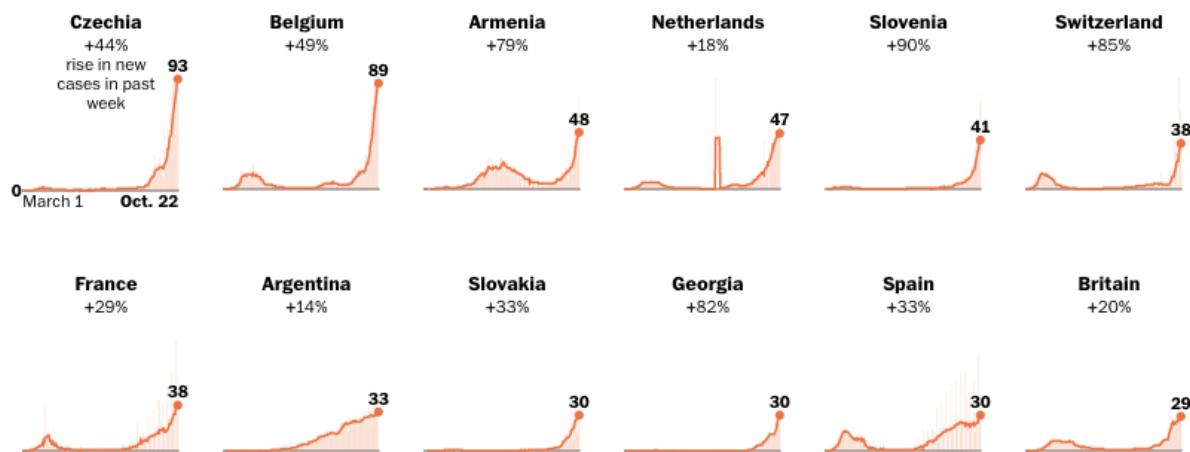
WHERE THE CASES AND DEATHS ARE SURGING (OCTOBER 15-22, 2020) Source:

[https://www.washingtonpost.com/graphics/2020/world/mapping-
spread-new-coronavirus/?itid=sf_coronavirus](https://www.washingtonpost.com/graphics/2020/world/mapping-spread-new-coronavirus/?itid=sf_coronavirus)

Global hot spots for reported cases per capita

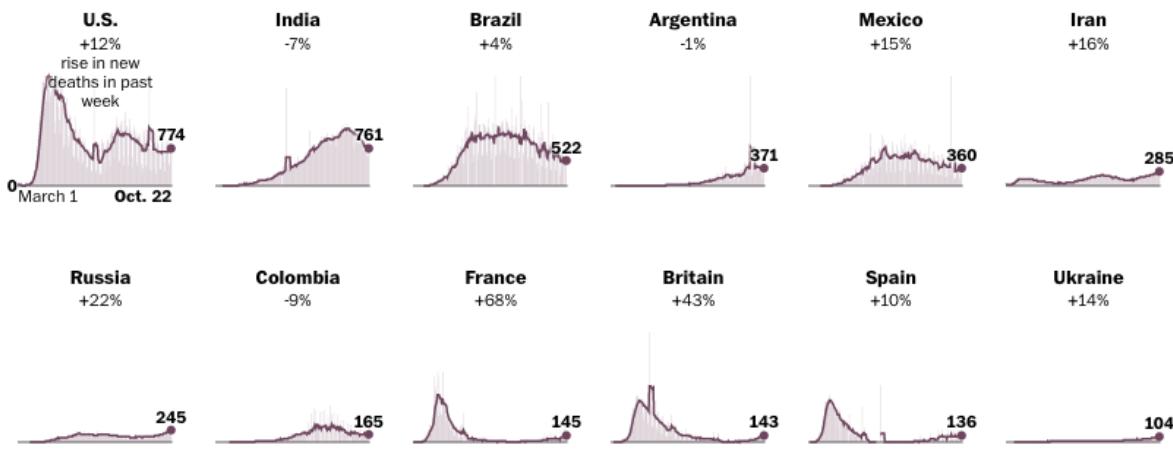
— 7-day rolling average of daily new reported cases per 100,000 residents

Deaths	Cases	Adj. for population	Totals
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**Global hot spots for reported deaths**

— 7-day rolling average of daily new deaths

Deaths	Cases	Adj. for population	Totals
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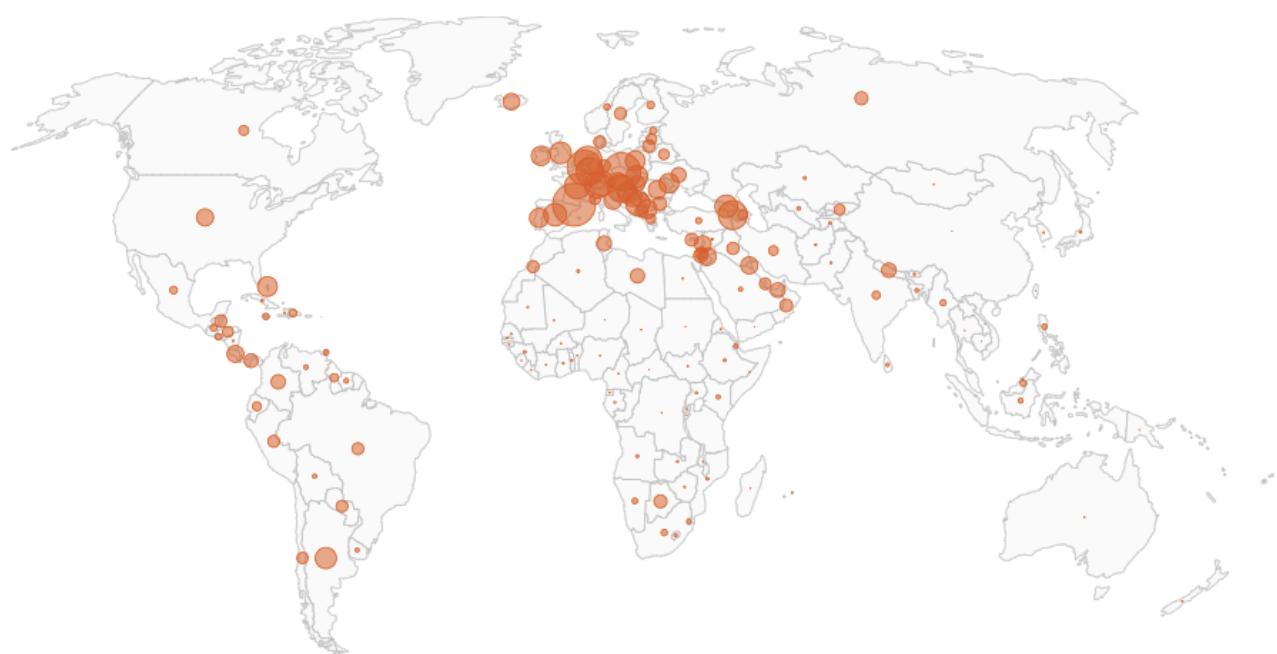


**Where the virus is surging**

Deaths **Cases** Adj. for population Totals Since last week Cumulative

5 25 100

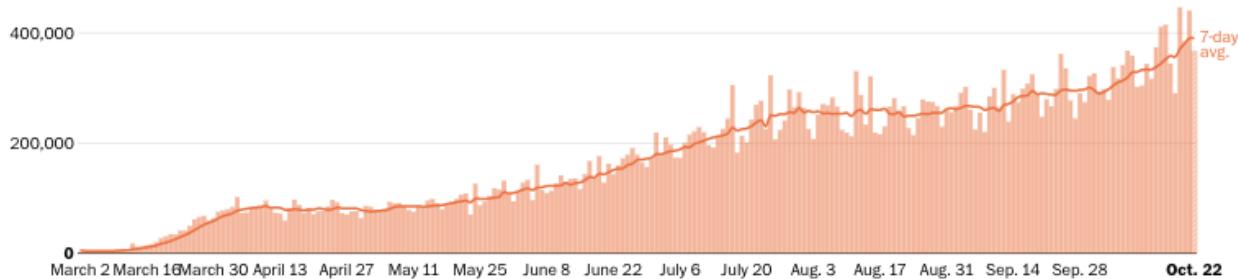
REPORTED CASES PER 100K



New daily reported cases across the world

[Deaths](#) [Cases](#)

At least 41,499,772 have been reported since Feb. 29.



Reported cases per 100,000 residents by county since last week

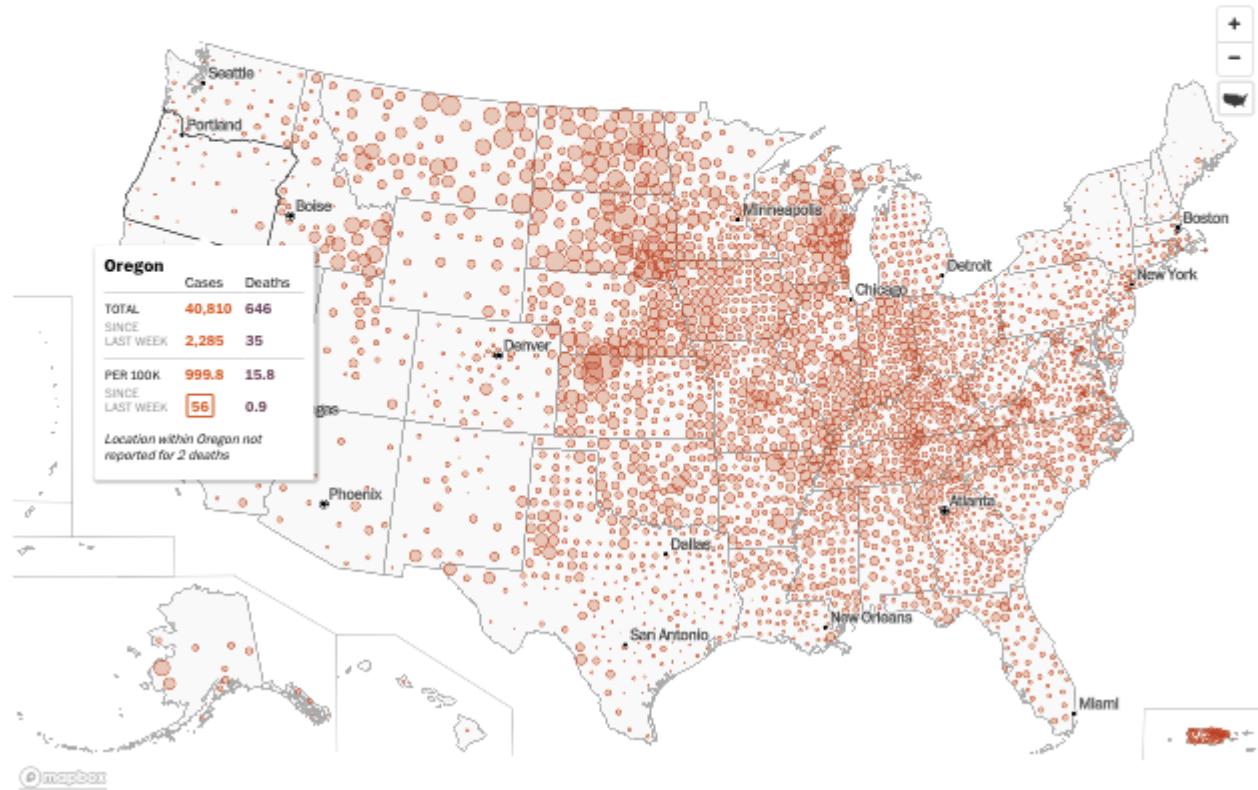
Click on a state to explore county details

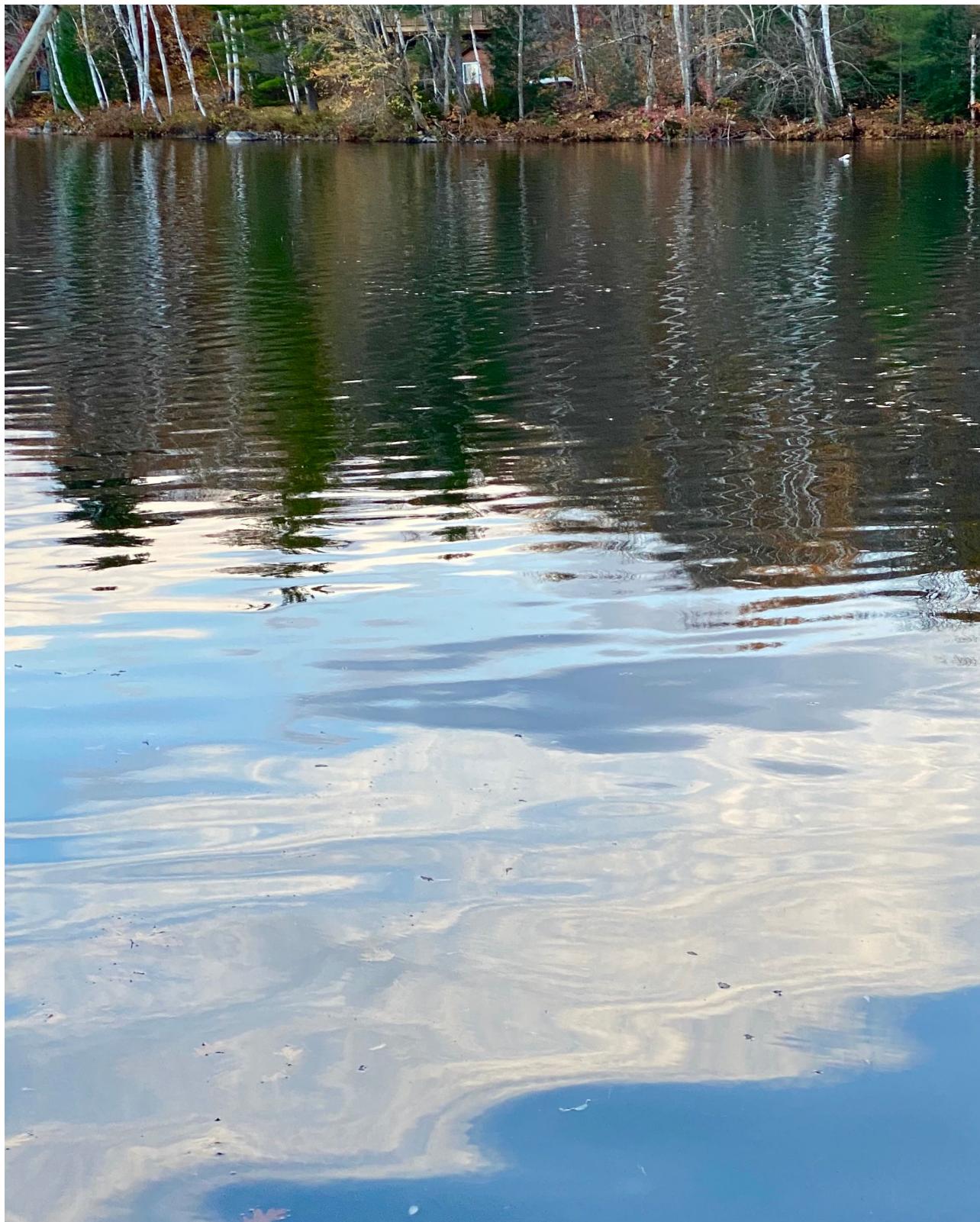
[Deaths](#) [Cases](#) [Adj. for population](#) [Totals](#) [Since last week](#) [Cumulative](#)

Zoom to a county:

Select...

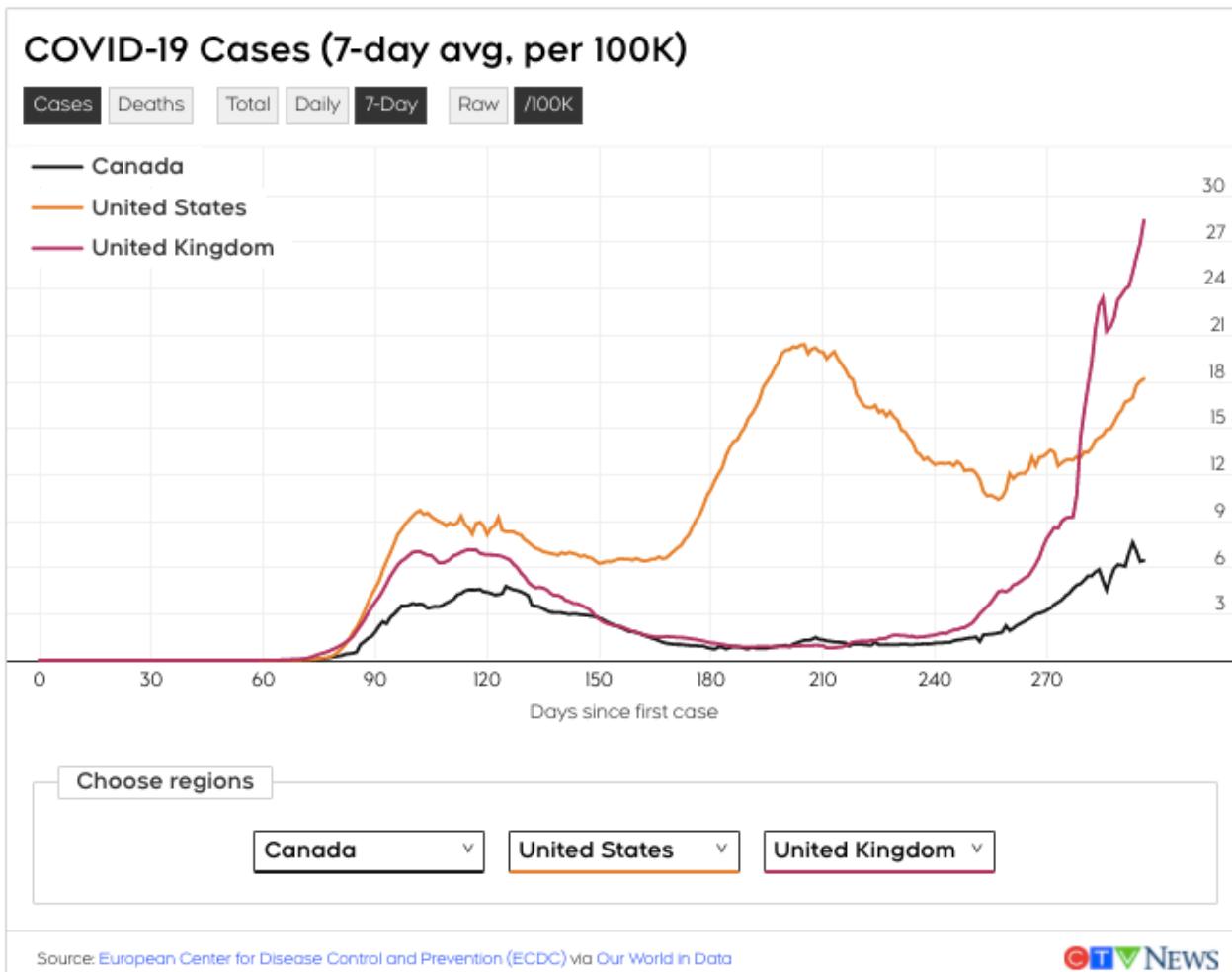
KEY:
4.739 reported cases per 100k

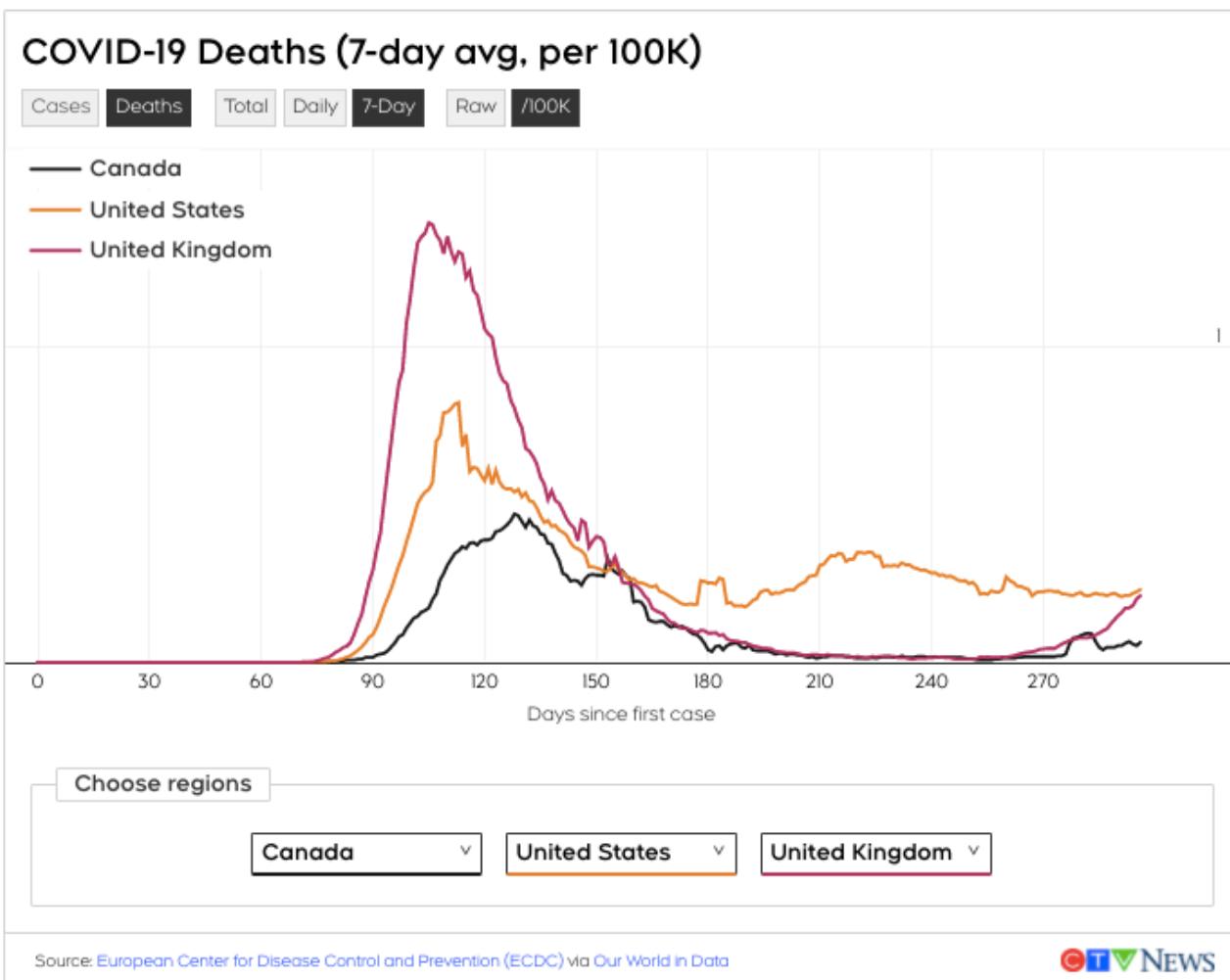




Source of data below on October 22, 2020:

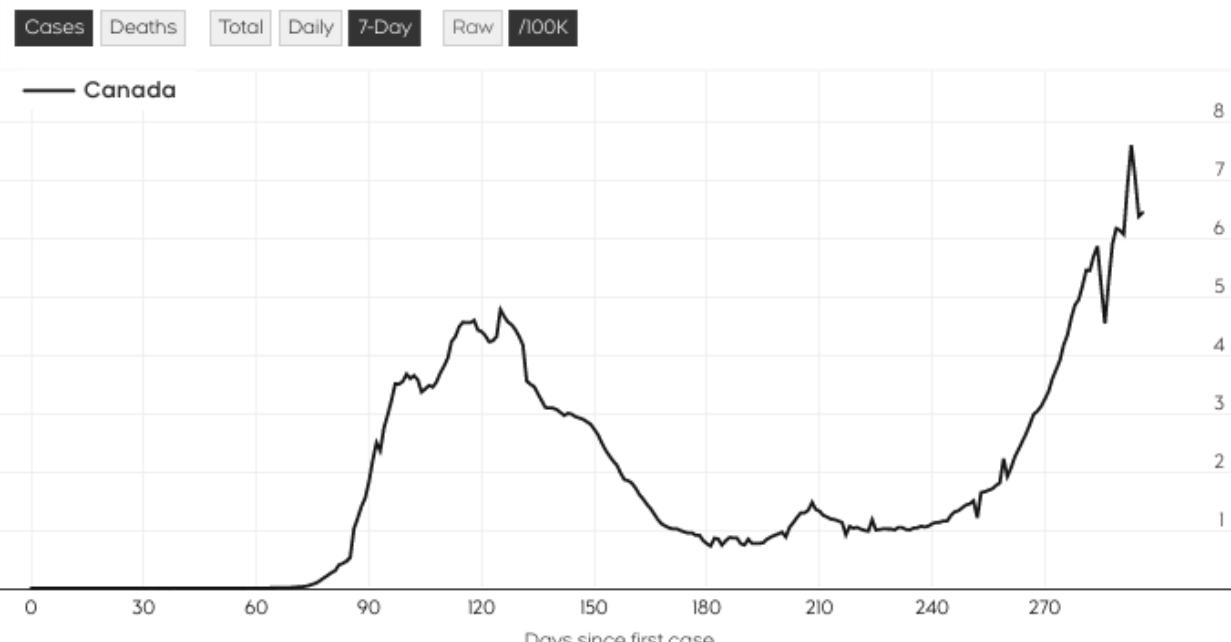
<https://www.ctvnews.ca/health/coronavirus/covid-19-curves-compare-canada-and-other-key-nations-1.4881500>





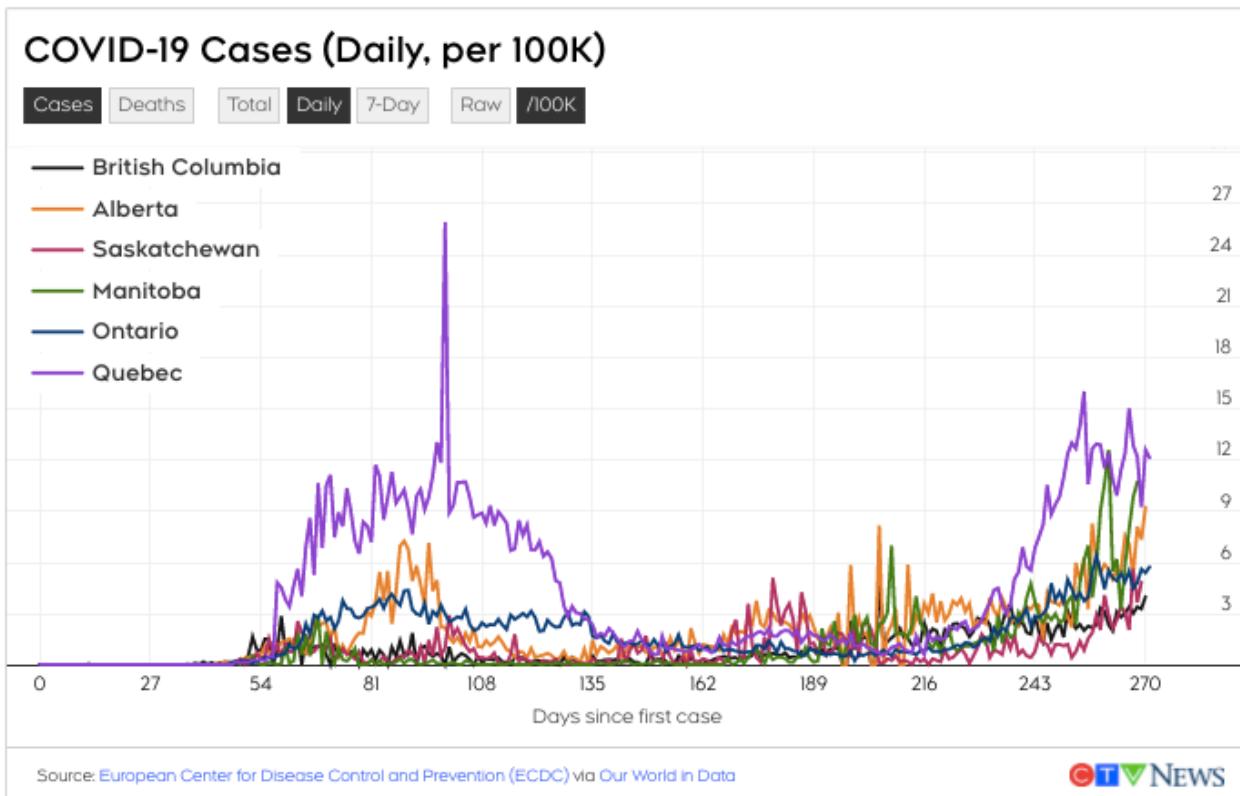


COVID-19 Cases (7-day avg, per 100K)



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

CTV NEWS





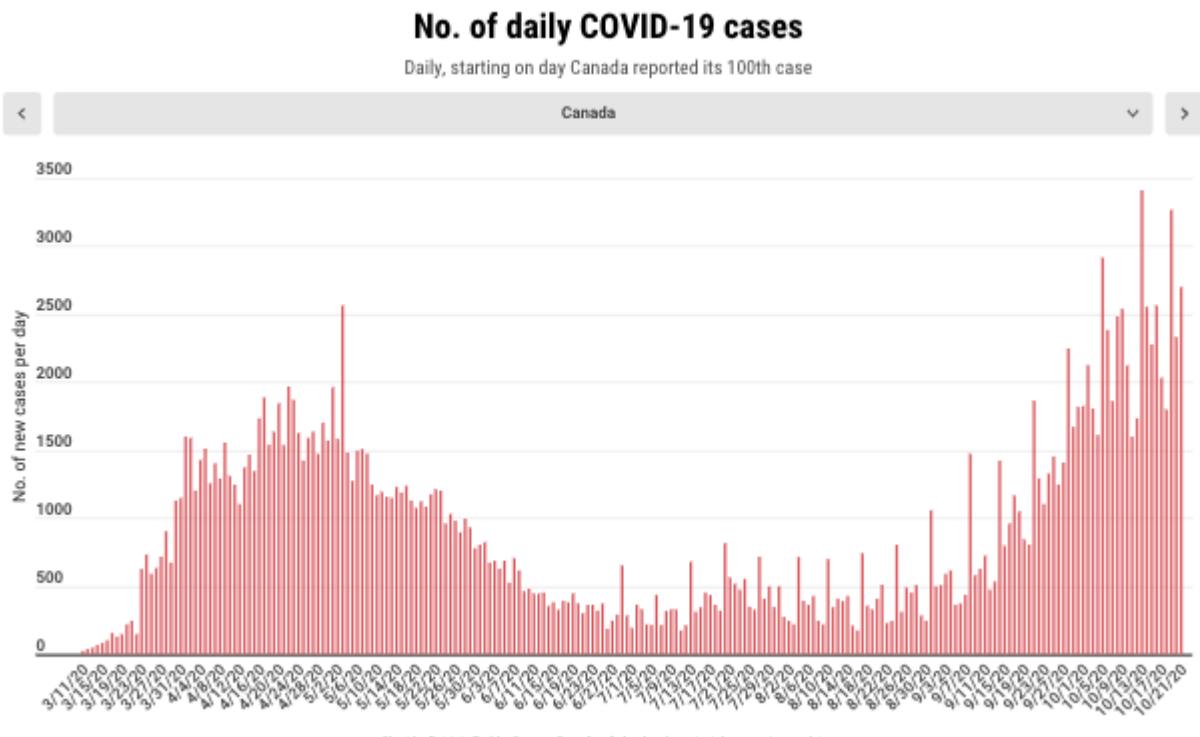
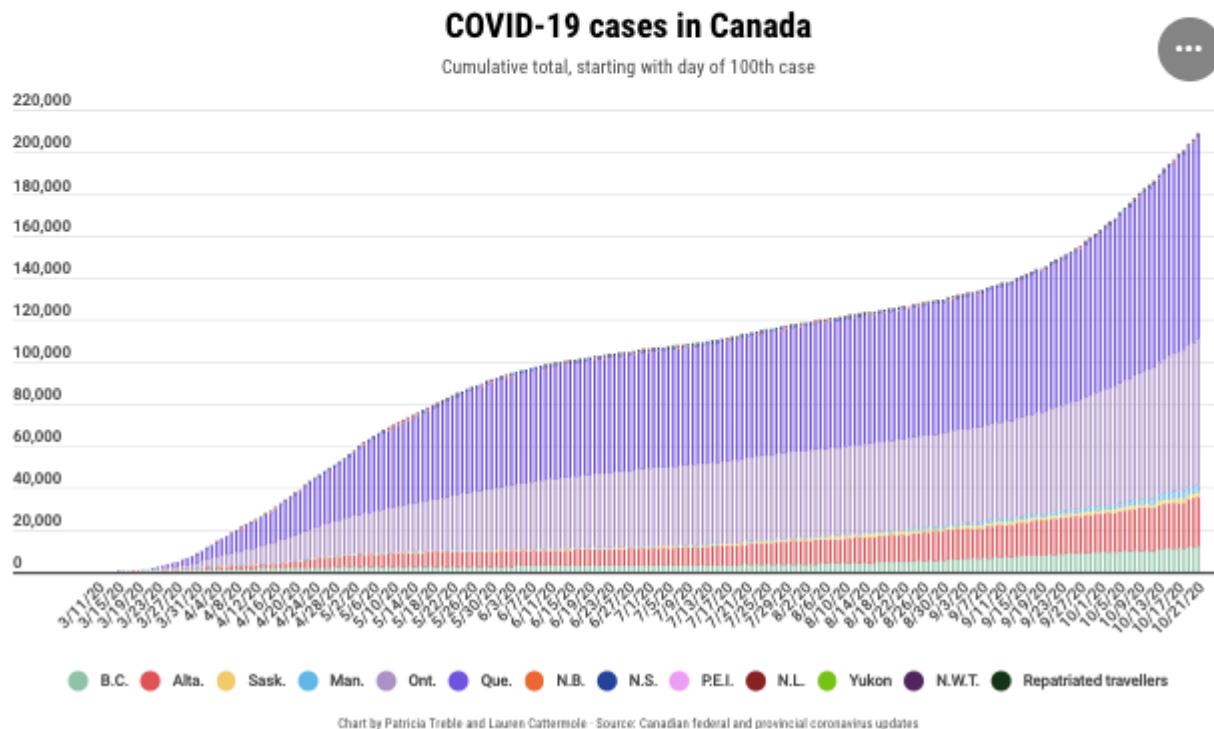
Source of Canadian data below (October 22, 2020):

<https://www.macleans.ca/society/health/coronavirus-in-canada-these-charts-show-how-our-fight-to-flatten-the-curve-is-going/>

COVID-19 in Canada: Here's how our battle against the second wave is going

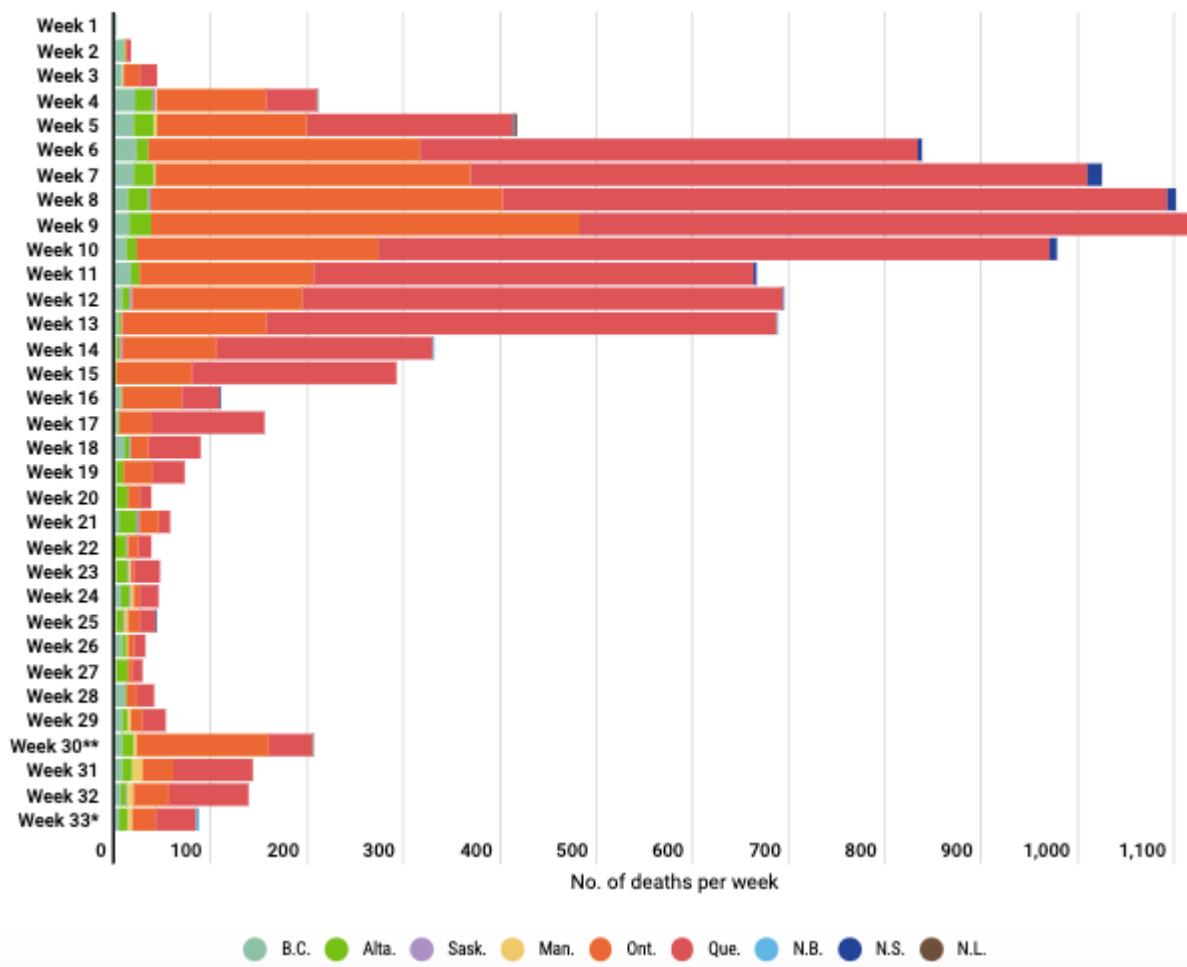
The second wave of COVID-19 is unfolding across the country with provinces setting new case records as the virus takes hold once again in long-term care homes

By Patricia Treble
October 22, 2020

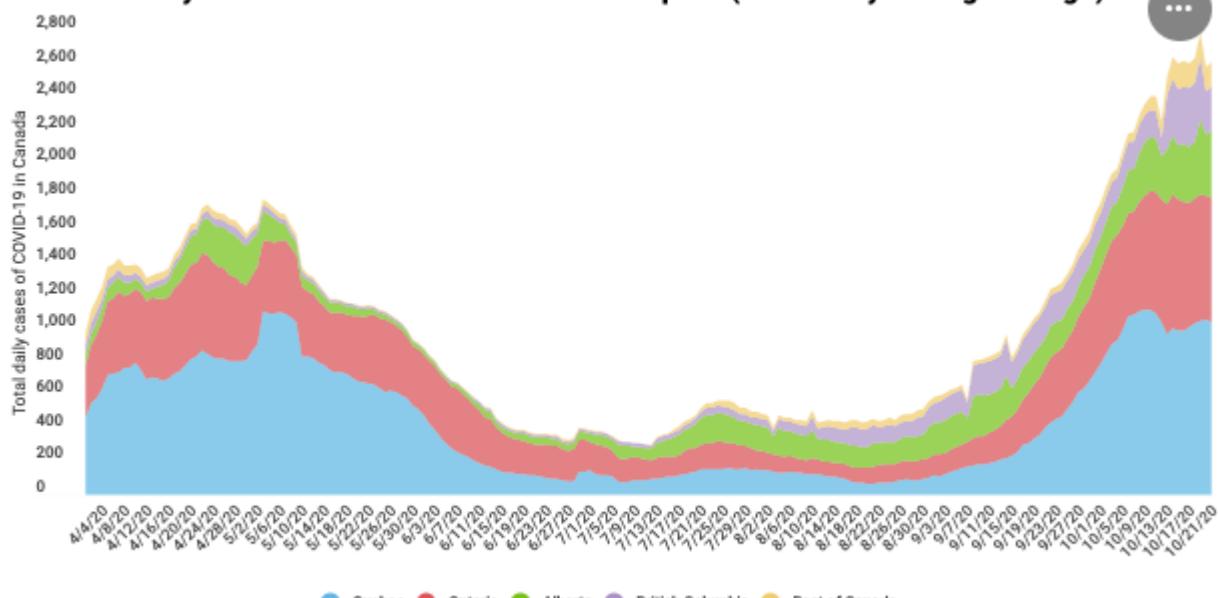


COVID-19 deaths in Canada

(starting the week of the first death on March 8)



Daily cases in Canada's COVID-19 hotspots (seven-day rolling average)



Note: Some countries do not allow direct connections to Montevideo due to currency controls.

Source: 2018-19 Senate Open Data Working Group. Macdonald calculations.



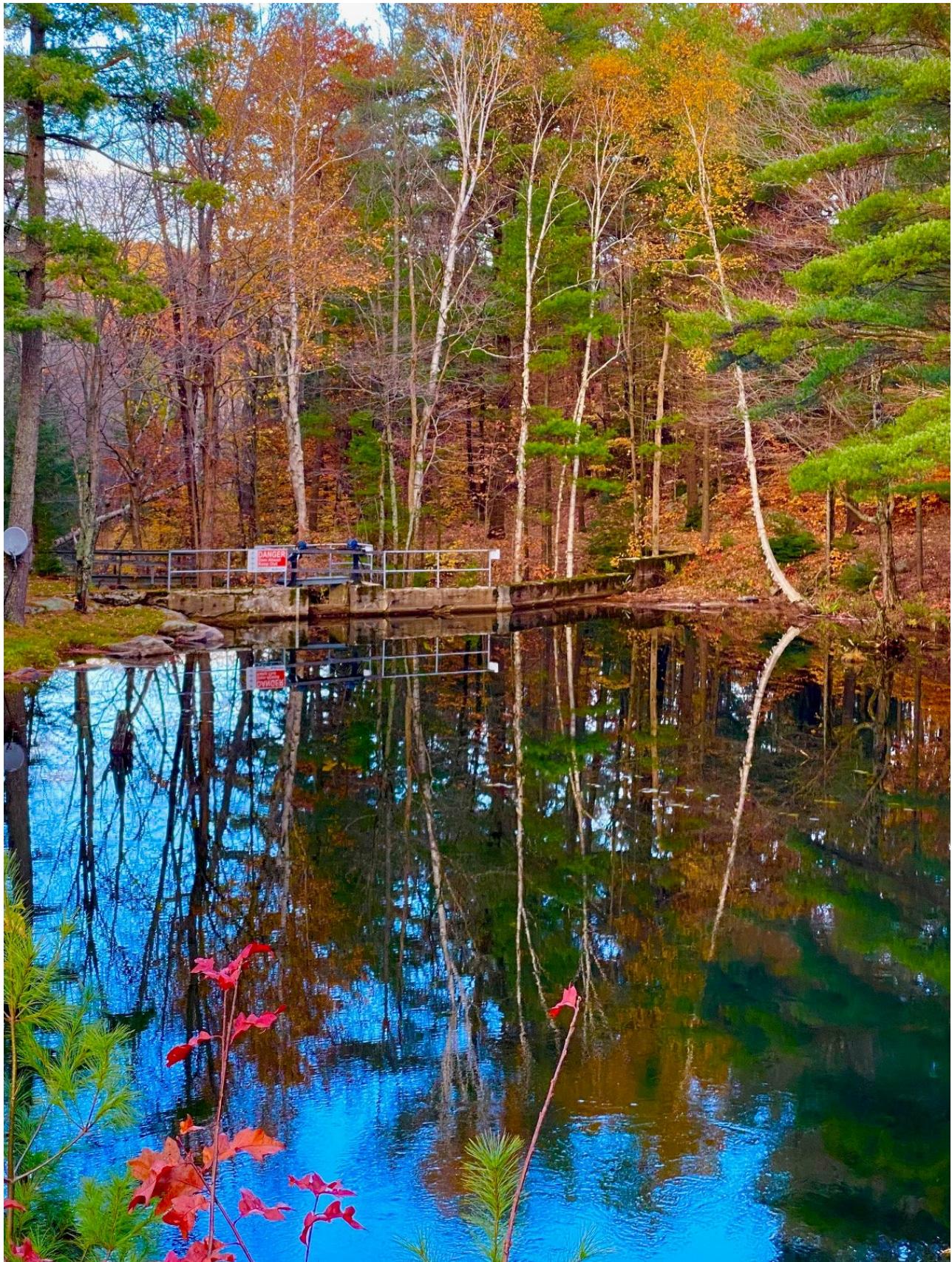


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