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CURRENT NEWS ON ECOLOGICAL WELLNESS AND GLOBAL HEALTH

Volume 7, Number 42<https://planetaryhealthweekly.com>**October 21, 2021**

Hi,

I was asked the other day a critical question: "What will be or when will be the tipping point with the climate crisis," when Earth says "sorry, you've gone too far and I'm taking over now, I won't take anymore abuse?" I had to think deeply, first realizing that there are numerous tipping points, not just the one we hear of all the time of an increase in average global temperature exceeding 2C over pre-industrial times. But, what about the excessive rapid melting of glaciers around the world, the melting of the permafrost, the melting of polar icecaps, changing sea currents, ocean acidification, coral destruction, the droughts, floods and fires, the explosive reduction of biodiversity...When will they too lead to some type of tipping point from where any hope of 'fixing' them or 'mitigation' will be not possible. At what will we (or perhaps future generations) all slide into the abyss, regardless of wealth or privilege? I'm not really sure, but I do know we're heading in that direction, relentlessly.

So many either just don't yet understand or want to understand what is really going on with our planet. They don't want to put two and two together. Or maybe they just want to extract all the profit and wealth they can before doom strikes; to enjoy life, get enriched regardless of consequences. But there won't be hiding places left, just a flight or two to the moon or maybe Mars.

We see now with only 10 days to go before the opening of COP26 in Glasgow, that the pressure is growing on leaders, from all sectors of society, to get serious, to take the needed decisions [despite the howling](#). We will see the push back from those who fear great financial loss from the decisions that must be taken. We will soon see who are the true leaders in our world, those who will preside with intent, and describe and usher in a new era where we stop the relentless abuse of Earth's natural systems and ultimately become independent of fossil fuels for all our energy needs. This will require great presence, dedication and guts. I can't wait to see who steps up.

Today, too, in the **Planetary Health Weekly** (#42 of 2021) you'll read more about leadership and stepping up (or down) and a reminder and explanation of various tipping points and the COP26 itself.

Read on about:

- What would make the COP26 climate conference a success?
- Canadians are among the world's worst carbon emitters – here's what we can do about it,
- Edging to net zero, Action not talk needed on climate,
- Queen Elizabeth signals to world leaders,
- CORONAVIRUS UPDATES:
 - If you've had Covid do you need the vaccine?
 - Long Covid patients fight to be believed,
 - New mutation of Delta variant under close watch in UK,
 - Five times as many police officers in the U.S. have died from Covid-19 as from gunfire since start of pandemic,
 - Trends in suicide attempts among children in the decade before and during the pandemic in Paris,
 - Getting flu with Covid doubles risk of death says UK health chief,
 - New Zealand administered record number of Covid-19 jabs at 'vaxathon,'
 - New Zealand makes Covid-19 vaccinations mandatory for health workers,
 - Pregnant women in the UK: have you changed your mind about Covid vaccination,
 - Protests erupt across Italy as strict Covid-19 workplace pass takes effect, and
 - Italy is about to bring in the strictest Covid-19 green pass, THEN
- National Day of Action for missing and murdered indigenous women, girls and gender diverse people,
- Events mark day to remember missing, murdered Indigenous women & girls,
- Indigenous women are preyed on at horrifying rates – I was one of them,
- WHO approves malaria vaccine in historic first for global health,
- La Niña is back – here's how it will affect weather,

- To beat the heat, Phoenix, Arizona paints its streets gray,
- Firefighters have been winning the battle to protect Sequoia's giant trees – using foil blankets,
- Pandemic has increased need for air quality audits – Manitoba group has a solution,
- Why corporate social responsibility is BS,
- Covid-19 and beyond: how lessons and evidence from implementation research can benefit health systems' response and preparedness for Covid-19 and future epidemics,
- Iqaluit hospital limits surgeries as city water tests show 'exceedingly high concentrations' of fuel,
- New documents reveal dozens more children died at northern Manitoba residential school,
- Quote on extinction of species, Announcing Assembly of First Nations 2021 Virtual Water Summit **and** 7th Global Symposium on Health Systems Research,
- Native Land Digital (Maps), Map of Ontario treaties and reserves,
- Paint particles are an abundant microplastic in the oceans,
- Is this Africa's tallest tree?
- Plastic pollution is killing sea turtles – here's how,
- New book: "Regeneration: Ending the climate crisis in one generation" by Paul Hawken,
- How a civilian conservation corps could help address the global-warming emergency, and lastly
- **ENDSHOTS** of Falling Autumn in Seguin, Ontario amid the latest Covid-19 stats and charts from Canada and around the World.

Please do keep reading. Until next week. Best, david

David Zakus, Editor and Publisher



Roadside Scene, Rosseau, Ontario
October 20, 2021

What Would Make the COP26 Climate Conference a Success?



Artists painted this mural on a wall near the Scottish Events Centre, in Glasgow, Scotland, which will be hosting the COP26 UN Climate Summit in November. Expectations are extremely high, that the environmental pledges made at the 2015 climate conference in Paris. Credit: Jeff J. Mitchell/Getty Images

"A turning point for humanity." That's what the upcoming COP26 climate summit will be, at least according to British Prime Minister Boris Johnson, who made the statement in a recent address to the United Nations General Assembly. As the U.K. gets ready to host this year's conference in Glasgow, Scotland (Oct. 31 - Nov. 12), Johnson has called on world leaders to "recognize the scale of the challenge we face" on climate issues. This past summer, much of the Northern Hemisphere was battered by a succession of record-breaking natural disasters, from severe heat waves in North America to deadly flooding in parts of western Europe, India and China to uncontrollable wildfires in the Mediterranean (and western North America). The latest report by the UN's Intergovernmental Panel on Climate Change (IPCC) warned that the Earth was heating faster than previously thought, calling it "code red for humanity."

At CBC: [Canadians are Among the World's Worst Carbon Emitters. Here's What We Can Do About It](#) (and see charts below)

A new report from a Berlin-based think tank shows Canada is trailing behind other wealthy countries when it comes to cutting carbon emissions, and outlines concrete steps that individuals, governments, and businesses can take to help the world limit warming to the 1.5 C goal set by the Paris Agreement. The report, [1.5-Degree Lifestyles: Towards A Fair Consumption Space for All](#), was produced by the Hot or Cool Institute, and compares 10 countries selected to represent a range of income-levels — Canada, Finland, the United Kingdom, Japan, China, Turkey, South Africa, Brazil, India, and Indonesia.

Out of the countries studied, Canada had the worst per-capita record by far. The Berlin-based think tank says by 2050 average Canadian footprint must be cut by 95%.

At Climate Change News: [Edging to Net Zero](#)

With just three weeks before the start of the UN climate talks in Glasgow, momentum is growing for the net zero target in some unexpected parts of the world. The oil-producing United Arab Emirates has become the first Gulf petro-state this week to [commit to reach the goal by 2050](#). The bidder to host the 2023 UN climate talks made no mention of cutting its petroleum production. Its [plan](#) includes a commitment for half of its power to come from renewables and nuclear sources by 2050.

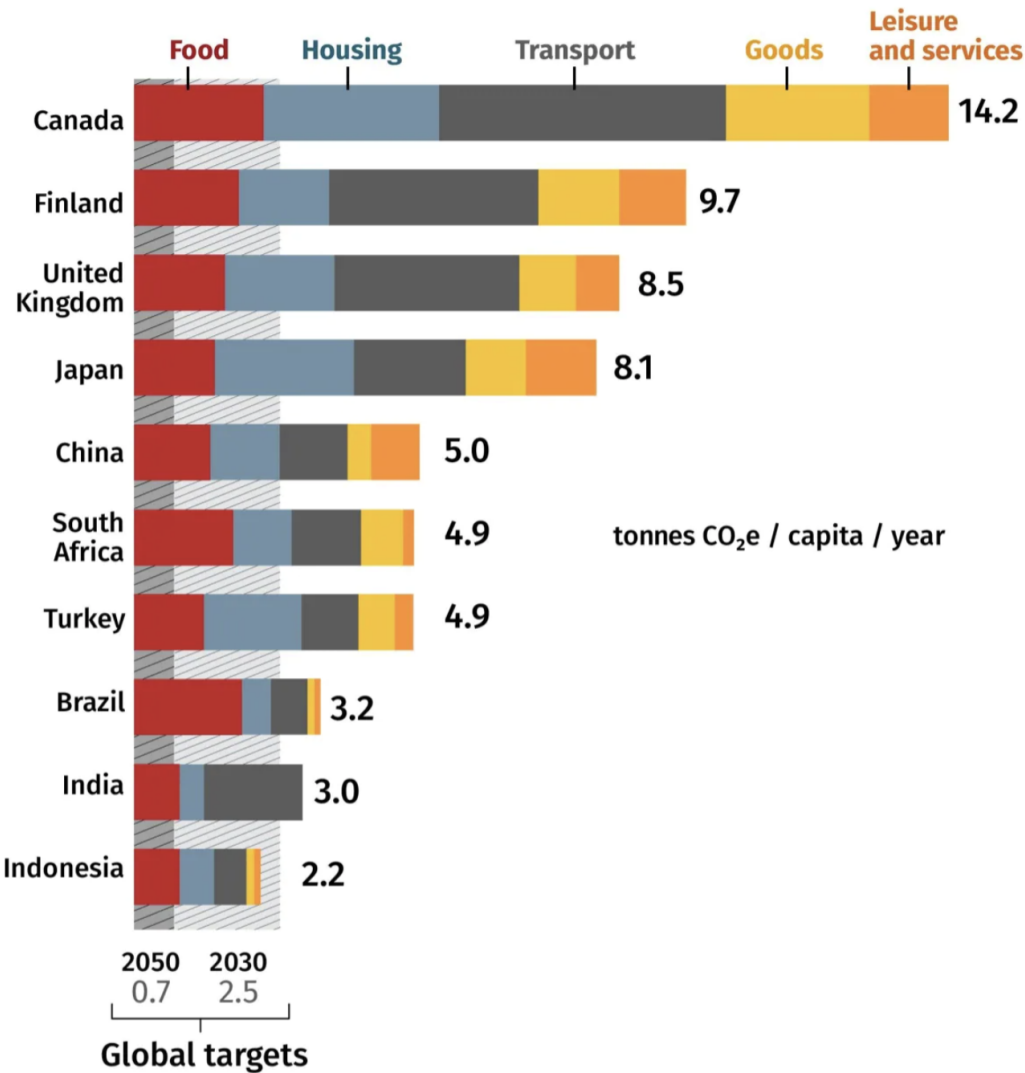
Turkey, which [finally ratified the Paris Agreement](#) this week, approved a goal to cut its emissions to net zero by 2053 – a symbolic date marking the 130th anniversary of the Turkish Republic. The target won't be backed up by a plan until next year and it won't be deemed credible unless it confronts the country's long pipeline of new coal power stations.

And draft government documents, [seen by Reuters](#), indicate that Russia, one of the world's largest oil and gas producers, is considering more ambitious climate targets for the middle of the century. This could include a goal to reach carbon neutrality by 2060.

The net zero target also led to [fiery exchanges](#) during this week's Green Climate Fund board meeting, the UN's flagship climate finance initiative.

At CBC: [Action, not talk, needed on climate, Queen Elizabeth signals to world leaders](#)

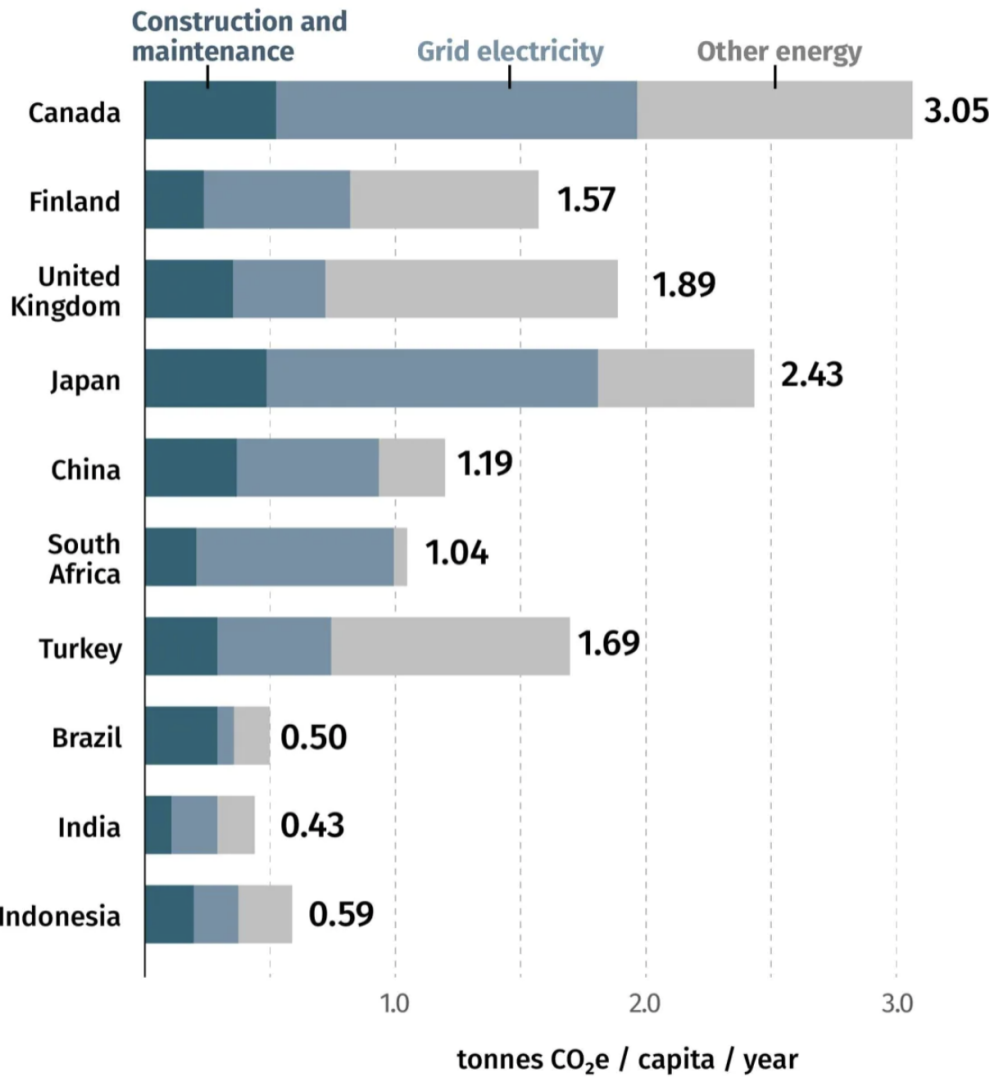
Total per-capita carbon footprint by country and sector



CBC NEWS

Source: 1.5-Degree Lifestyles: Towards A Fair Consumption Space for All

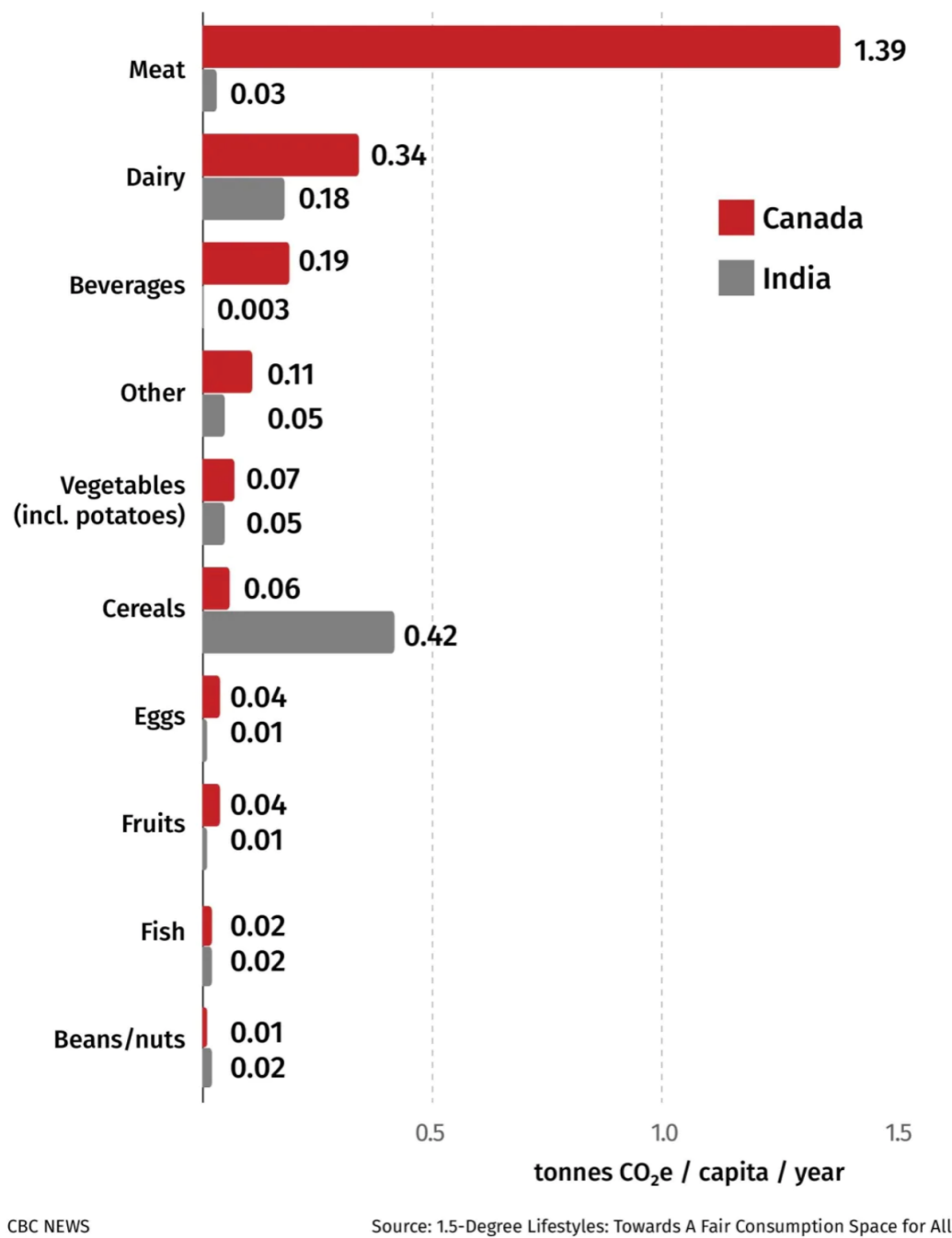
Housing-related carbon footprint



CBC NEWS

Source: 1.5-Degree Lifestyles: Towards A Fair Consumption Space for All

Food-related carbon footprint



SARS-CoV-2 & COVID-19 UPDATES



Source: <https://coronavirus.jhu.edu/ma...>

Globally, the situation continues dire in many countries and perhaps showing signs of slight improvement

Over the last week there was little change in Covid-19 cases and a slight change in deaths, with about 2.8 million new cases and 46,000 deaths (both down slightly). About 155 million people received a vaccine (down ~15%), or an average of some 22 million doses per day, still impressive. At this rate the world will need another 7 months to achieve 75% coverage.

(See ENDSHOTS at the end of this newsletter for various COVID-19 charts and stats from Canada and around the world.)

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

If You've Had Covid, Do You Need the Vaccine?



A Covid patient in isolation at the University of Arkansas in Little Rock, Ark., in August. Credit: Shannon Stapleton/Reuters

While many people who have recovered from Covid-19 may emerge relatively unscathed from a second encounter with the virus, the strength and durability of their immunity depends on their age, [health status](#) and [severity](#) of initial infection.

“That’s the thing with natural infection — you can be on the very low end of that or very high end, depending on what kind of disease you developed,” said Akiko Iwasaki, an immunologist at Yale University.

Those with powerful natural immunity may be protected from reinfection for up to a year. But even they should not skip the vaccine, experts said. For starters, boosting their immunity with a vaccine is likely to give them long-lasting protection against [all the variants](#).

“If you’ve gotten the infection and then you’ve been vaccinated, you’ve got superpowers,” said Jennifer Gommerman, an immunologist at the University of Toronto. Without that boost, antibodies from an infection will wane, leaving Covid-recovered people vulnerable to reinfection and mild illness with variants — and perhaps liable to spread the virus to others. [Read more at NY Times](#)

Long COVID: Patients Fight To Be Believed



Credit: Armin Weigel/dpa/picture-alliance

Millions of COVID patients still experience debilitating symptoms months after their infection. Many of them have to fight the additional battle of convincing their doctors or loved ones to take them seriously. [Read more at DW News](#)

And, from last week's PHW at National Observer: A conservative estimate suggests about 150,000 Canadians who contract the novel coronavirus experience long COVID-19 symptoms. In Ontario, between 57,000 and 78,000 people are affected.

The most common of more than 200 different symptoms include fatigue, shortness of breath, general pain or discomfort, anxiety and depression. Razak said individuals experiencing such symptoms have difficulty performing daily activities and require increased health-care resources.

READ MORE COVID-19 STORIES:

At CNN: [Five Times as Many Police Officers have Died from Covid-19 as from Gunfire Since Start of Pandemic](#)

At Jama Network: [Temporal Trends in Suicide Attempts Among Children in the Decade Before and During the COVID-19 Pandemic in Paris](#)

At the Guardian: [Getting flu with Covid doubles risk of death, says UK health chief](#)

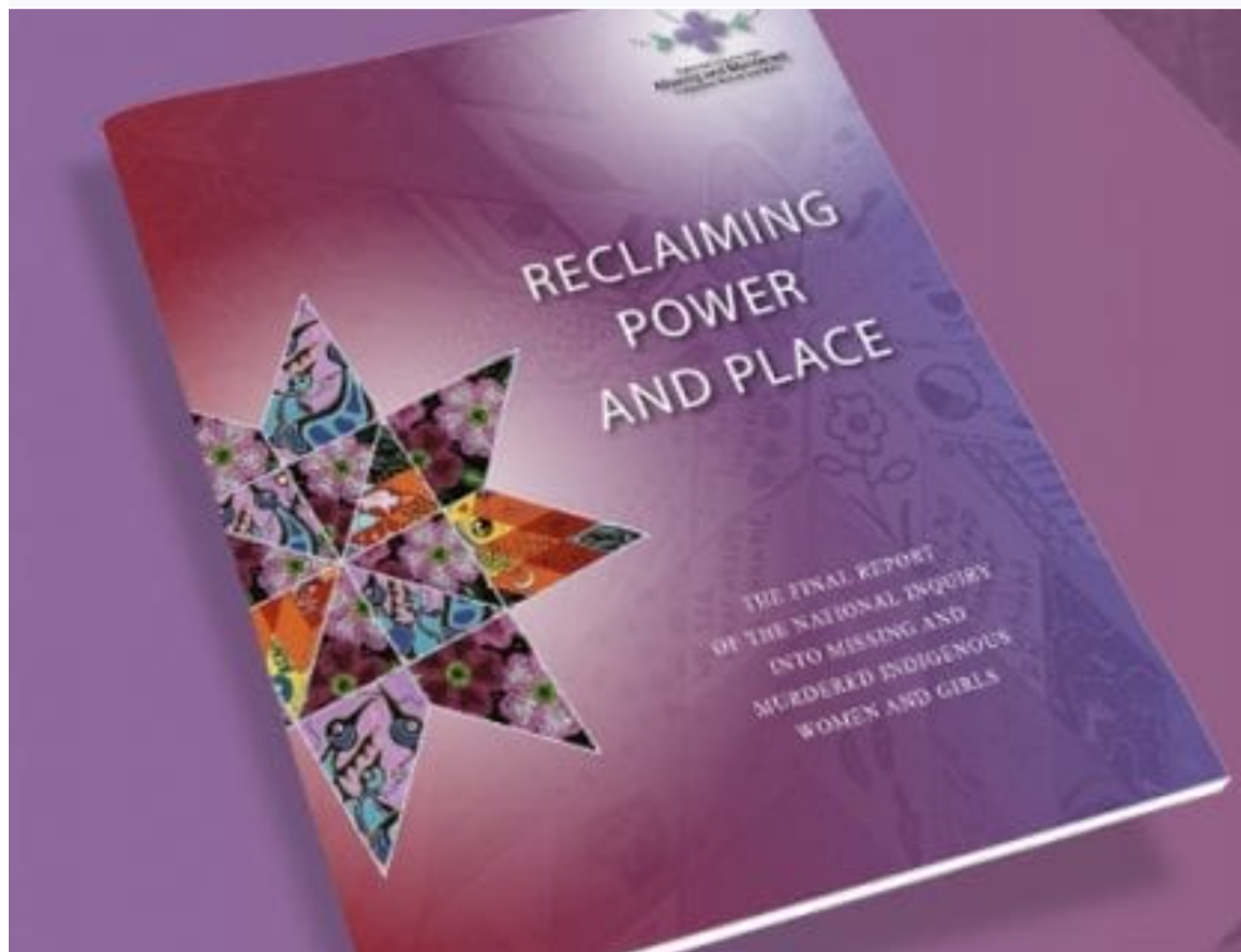
At CBC: [New Zealand Administered Record Number of COVID-19 jabs at 'Vaxathon'](#)

At Daily Mail: [Mother-Of-Four Who Proudly Posted That She Was 'Unmasked, Unmuzzled, And Unvaccinated' Dies Of COVID-19 At Age 40](#)

At The Guardian: [Pregnant women in the UK: have you changed your mind about Covid vaccination?](#)

At CBC: [Italy is about to bring in the strictest COVID-19 measures in Europe](#)

National Day of Action for Missing and Murdered Indigenous Women, Girls & Gender Diverse People



Credit: <https://www.mmiwg-ffada.ca/fin...>

On October 4, we commemorated the National Day of Action for Missing and Murdered Indigenous Women, Girls & Gender Diverse People. Our hearts were with our community members and families that are grieving the loss of mothers, sisters, daughters, kokum's, aunties, cousins and friends.

The National Association of Friendship Centres (NAFC) commits to taking action and seeking justice to end violence against Indigenous Women, Girls & Gender Diverse People and calls on all levels of government and our partners to commit to the 231 Calls to Justice from the National Inquiry's Final Report.

Immediate Priorities from the "Urban Path to Reclaiming Power and Place Regardless of Residency":

- Establish a National Urban Indigenous Strategy, with a clear definition of "urban", through a co-development process with urban service providers, community members, distinctions-based organizations and other key stakeholders. (p.49)
- Identify gaps caused by jurisdictional wrangling/ urban governance and failings/effects of distinctions-based model and policy. Focus on a comprehensive strategy for the rights of children, with special attention to the girl-child. (p.49)
- Provide sustainable and long-term/evergreen core funding for urban Indigenous organizations and programs relevant to the safety of Indigenous women, girls, and 2SLGBTQQIA+ people, with investment in community needs assessments. (p.51)

Taking Action: What You Can Do

- **Read "MMIWG 2SLGBTQQIA+ National Action Plan - Urban Path to Reclaiming Power and Place Regardless of Residency"**
- https://mmiwg2splus-nationalactionplan.ca/wp-content/uploads/2021/06/NAP-Urban-Framework_EN.pdf
- <https://www.mmiwg-ffada.ca/final-report/>
- **Attend a local COVID safe or online vigil.** Follow hashtag **#MMIWG2S** on Social Media to find local events in your area!
- Taking the Next Steps in Reclaiming Power and Place: A Conversation with Members of the National Working Group: tinyurl.com/dhtn94ca
- **Amplify messaging surrounding today.** Use the following hashtags to find posts about the importance of this National Day of Action and share them on your social media accounts: #MMIWG2S #MMIGActionNow #Sisterinspirit

[Click here for additional resources for MMIWG2S+ Survivors](#)

WHO Approves Malaria Vaccine in Historic First for Global Health



Family utilizes protective malaria bed nets in their home in Nigeria. Credit: Arne Hoel/World Bank

The first vaccine for children at risk of malaria has been approved by the World Health Organization, [according to a press release](#). This groundbreaking achievement could save tens of thousands of children each year in sub-Saharan Africa alone, the primary risk zone for the parasitic disease that kills half a million people annually, half of whom are children. Scientists and health advocates alike have heralded the vaccine as a major development in the fight to protect public health.

"For centuries, malaria has stalked sub-Saharan Africa, causing immense personal suffering," said Dr. Matshidiso Moeti, WHO Regional Director for Africa. "We have long hoped for an effective malaria vaccine and now for the first time ever, we have such a vaccine recommended for widespread use. **Read more at [Global Citizen](#)**

La Niña's Back. Here's How It Will Affect the Weather



County of Santa Barbara Fire Department firefighters extinguish a roadside fire next to train tracks off highway 101 in Goleta, Calif., on Oct. 13, 2021. On Thursday, the National Oceanic and Atmospheric Administration announced that a La Niña has formed, which can be bad news for parts of the parched West in the U.S.

Credit: Ringo H.W. Chiu/The Associated Press)

For the second straight year, the world heads into a new La Niña weather event. This would tend to cool western Canada, dry out parts of an already parched and fiery American West and boost a busy Atlantic hurricane season.

Just five months after the end of a La Niña that started in September 2020, the U.S. National Oceanic and Atmospheric Administration announced a new cooling of the Pacific is underway.

La Niña's natural cooling of parts of the Pacific is the flip side of a warmer El Niño pattern and sets in motion changes to the world's weather for months and sometimes years. But the changes vary from place to place and aren't certainties, just tendencies. **Read more at [the CBC](#).**

GOOD NEWS

Firefighters Have Been Winning the Battle To Protect Sequoia's Giant Trees – Using Foil Blankets



Credit: EPA

Expert firefighting, contingency planning, and gallons upon gallons of water mean that the stands of giant sequoia trees in California's Sierra Nevada mountains appear to be safe for future generations.

The September 9th "Windy Fire," started by a lightning strike, burned 25,000 acres in Peyrone Sequoia Grove and the Red Hill Grove before it converged on Sequoia National Park. There, firefighters wrapped many of the famous trees such as "General Sherman," the largest tree on Earth by volume, in fire-resistant foil capable of withstanding 1,200°F. **Read more at [Good News Network](#)**

MORE GOOD NEWS

Pandemic Has Increased Need For Air Quality Audits – Manitoba Group Has a Solution



Amanda San Filippo and Matt Schaubroeck, co-founders of ioAirFlow. The company has developed software to provide digital analysis on indoor environmental quality issues in commercial buildings using easy-to-install sensors that can be done at a fraction of the cost of existing energy audits. **Credit: John WoodsWinnipeg Free Press**

Just weeks before the COVID-19 pandemic hit, Matt Schaubroeck quit his day job to devote all his time to ioAirFlow, the startup he founded a couple of years ago with Amanda San Filippo.

The company has developed software to provide digital analysis on indoor environmental quality issues in commercial buildings using easy-to-install sensors that can be done at a fraction of the cost of existing energy audits.

While the pandemic meant they have been unable to work together with their team of 11 people — including four based in Vancouver — it has also created opportunities.

The pandemic has increased the need for air quality audits regarding things like particulate matter and volatile organic compounds.

It has also opened up opportunities for Schaubroeck and San Filippo to apply to participate remotely in startup accelerators that might have been difficult to attend in person.

The company has recently been accepted into a couple — Microsoft's Women in Cloud, which helps women tech founders partner with Microsoft in co-selling situations; and Plug and Play, based in Sunnyvale, Calif., which connects startups with Fortune 500 companies that have expressed the willingness to partner with young innovative companies. **Read more at [Winnipeg Free Press](#)**

OPINION

Why Corporate Social Responsibility is BS



Treasury Secretary Janet Yellen listens to Josh Bolten, President and CEO of Business Roundtable, in Washington. Credit: REX/Shutterstock

In recent years, “corporate social responsibility” (CSR) has been viewed by some as the answer to the multiple failings of capitalism. Chief executives have responded to

all sorts of problems – worsening climate change, widening inequality, soaring healthcare costs and so on – by promising their corporations will lead the way to solutions because they're committed to being “socially responsible”.

Ninety-eight percent of this is rubbish. CEOs won't do anything that hurts their bottom lines. They're in the business of making as much money as possible, not solving social problems. **Read more by Robert Reich at [the Guardian](#).**

SPOTLIGHT ON POLICY

COVID-19 and Beyond: How Lessons and Evidence from Implementation Research Can Benefit Health Systems' Response and Preparedness for COVID-19 and Future Epidemics



'Alert Community to Prepared Hospital' MCH implementation research, Natikiri, Nampula, Mozambique. Credit: David Zakus

Early in the COVID-19 pandemic—and based on limited data on the novel coronavirus—it was projected that African countries will be ravaged and the health systems overwhelmed. Fortunately, Africa has so far defied these dire predictions. Many factors account for the less dramatic outcome, in particular the local know-how gained through dealing with previous epidemics, such as Ebola, and the early and coordinated political and public health response, applying a combination of containment and mitigation measures.

However, these same measures, exacerbated by existing inequalities, have had negative impacts on vulnerable populations, notably women and children. Furthermore, the observed deterioration of access to and provision of essential health services will likely continue and worsen in countries experiencing future waves of COVID-19 and lacking access to vaccines. The impact of the pandemic on health systems may be one of Africa's main COVID-19 challenges and women and children its greatest victims.

In this article, we argue that just as learning from previous epidemics and coordinated preparation informed Africa's response to COVID-19, knowledge, innovations and resources from recent implementation research can be leveraged to mitigate the pandemic's effects and inform recovery efforts. As an example, we present the proven model and multifaceted approach of Canada's Innovating for Maternal and Child Health in Africa Initiative and describe how such a model could be readily applied to building the robust and equitable systems needed to tackle future stresses and shocks, such as epidemics, on health systems while maintaining essential routine services. **Read more at [BMJ](#)**

SPOTLIGHT ON INDIGENOUS WELLNESS

Iqaluit Hospital Limits Surgeries as City Water Tests Show 'Exceedingly High Concentrations' of Fuel



Residents line up to fill containers with potable water in Iqaluit last week. Credit: Emma Tranter/The Canadian Press

The results of water quality testing in Iqaluit (capital of Nunuvut) showed "exceedingly high concentrations of various fuel components" in one of the city's water tanks, the city's chief administrative officer said Friday at a news conference, as residents learned their water supply will remain undrinkable for at least a week.

While officials said the water could contain diesel or kerosene the territory's top doctor doesn't see long-term health concerns for those who drank the water.

Water treatment plant operators discovered a concentrated odour in the tank this week, after residents reported smelling fuel in the tap water for over a week. The city told residents not to drink the tap water on Tuesday, and later declared a local state of emergency. **Read more at [CBC](#)**

Quote Of The Week



Credit: CNN

The ivory-billed woodpecker, along with 22 other species of birds, fish, mussels and other wildlife, is set to be declared extinct and removed from [the endangered species list](#), US wildlife officials announced Wednesday.

"For the species proposed for delisting today, the protections of the (Endangered Species Act) came too late, with most either extinct, functionally extinct, or in steep decline at the timing of listing," the US Fish and Wildlife Service said. Also slated for delisting are the Bachman's warbler, two species of freshwater fishes, eight species of Southeastern freshwater mussels and 11 species from Hawaii and the Pacific Islands.

[Climate change may doom 1 in 3 species of plants and animals in the next 50 years](#)

"The circumstances of each also underscore how human activity can drive species decline and extinction, by contributing to habitat loss, overuse and the introduction of invasive species and disease. The [growing impacts of climate change](#) are anticipated to further exacerbate these threats and their interactions," the wildlife agency said.

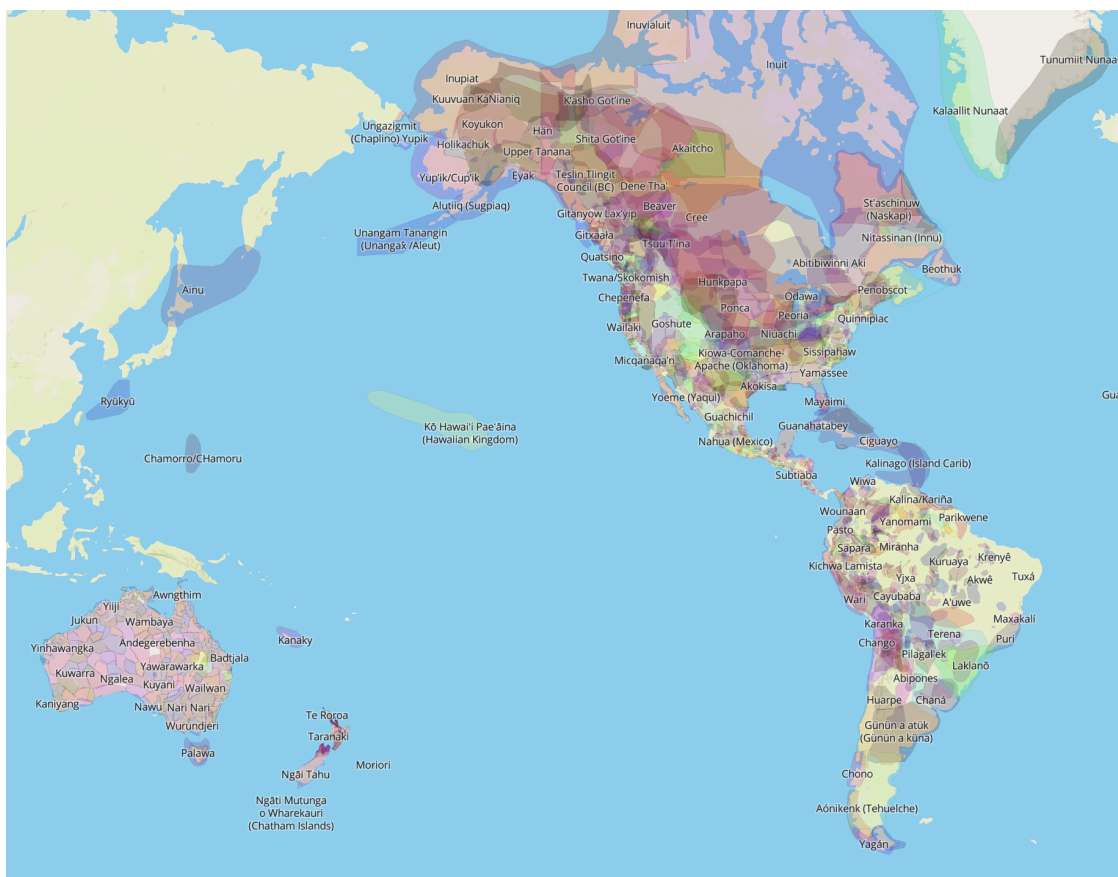
Read more at the CNN

Upcoming Events

- October 31 - November 12, 2021: [2020/2021 UN Climate Change Conference](#) UNFCCC COP26 - Postponed in 2020 and now being held November 1-12, 2021 (Glasgow, Scotland).
 - November 11, 2021: [Evidenced Based Research Being Carried Out in Low and Middle Income Countries](#) ADAPT will host their second online conference for Physios in Global Health.
 - March 28th-April 1st, 2022: Healthy People, Healthy Planet, Social Justice. (Virtual Satellite Sessions: March 21st-25th, 2022)
 - April 1-3, 2022: CUGH 2022 Global Health Conference- Hybrid: [Healthy People, Healthy Planet, Social Justice](#) (Los Angeles, California). Virtual Satellite Sessions: March 21-25, 2022; In-person Satellite Sessions: March 31, 2022
 - April 23 - 25, 2022: 8th International Conference on Information and Communication Technologies for Ageing Well and e-Health
 - October 31 - November 4, 2022: [7th Global Symposium on Health Systems Research \(Bogotá, Colombia\)](#)
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FYI#1 SPOTLIGHT ON MEDIA

Native Land Digital



Credit: Native Land Digital

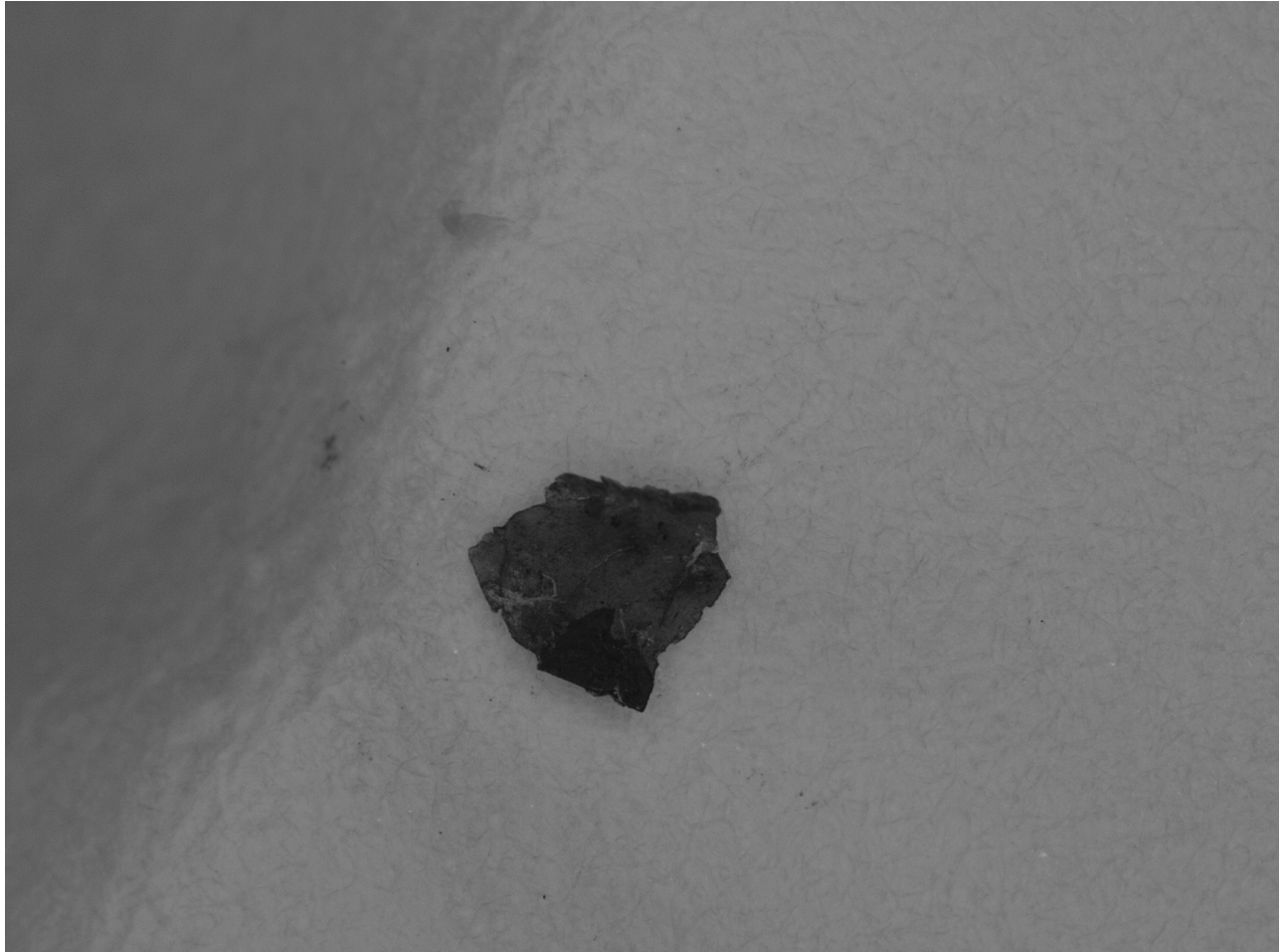
Our Mission Native Land Digital strives to create and foster conversations about the history of colonialism, Indigenous ways of knowing, and settler-Indigenous relations, through educational resources such as our map and Territory Acknowledgement Guide. We strive to go beyond old ways of talking about Indigenous people and to develop a platform where Indigenous communities can represent themselves and their histories on their own terms. In doing so, Native Land Digital creates spaces where non-Indigenous people can be invited and challenged to learn more about the lands they inhabit, the history of those lands, and how to actively be part of a better future going forward together.

See also: [Map of Ontario Treaties and Reserves](#)

Read and See more at Native Land

FYI #2

Paint Particles Are an “Abundant” Microplastic in the Oceans



A microscopic paint flake, measuring around 320µm in diameter, that was collected in the Southern North Sea. Credit: Andrew Turner/ University of Plymouth

The [press release](#) says that paint flakes may be one of the most common types of microplastic particles that exist in the ocean.

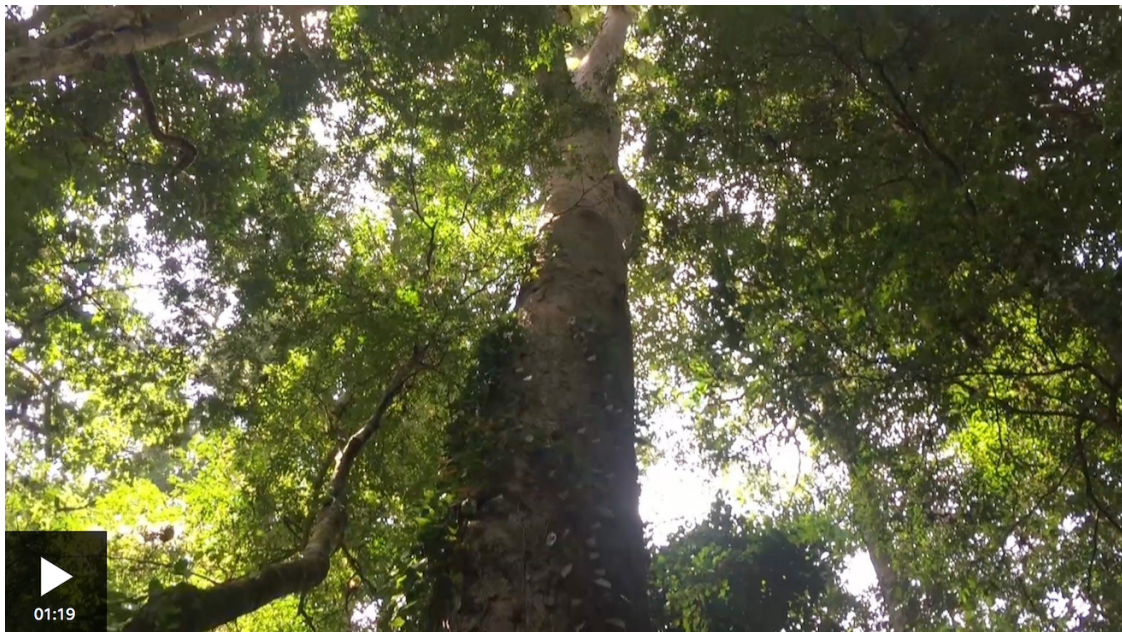
In addition to the physical threats that the brittle, angular flakes themselves pose, they also contain high levels of copper, lead, tin and iron, which presents numerous health risks for many species that are ingesting the flakes, such as neurotoxicity.

“Paint particles have often been an overlooked component of marine microplastics but this study shows that they are relatively abundant in the ocean. The presence of toxic metals like lead and copper pose additional risks to wildlife,” stated Dr. Andrew Turner, Associate Professor in Environmental Sciences at the University of Plymouth and the study’s lead author.

[Read more at the Weather Network](#)

FYI #3

Is This Africa's Tallest Tree?



Credit: Reaching for the skies Andreas Hemp

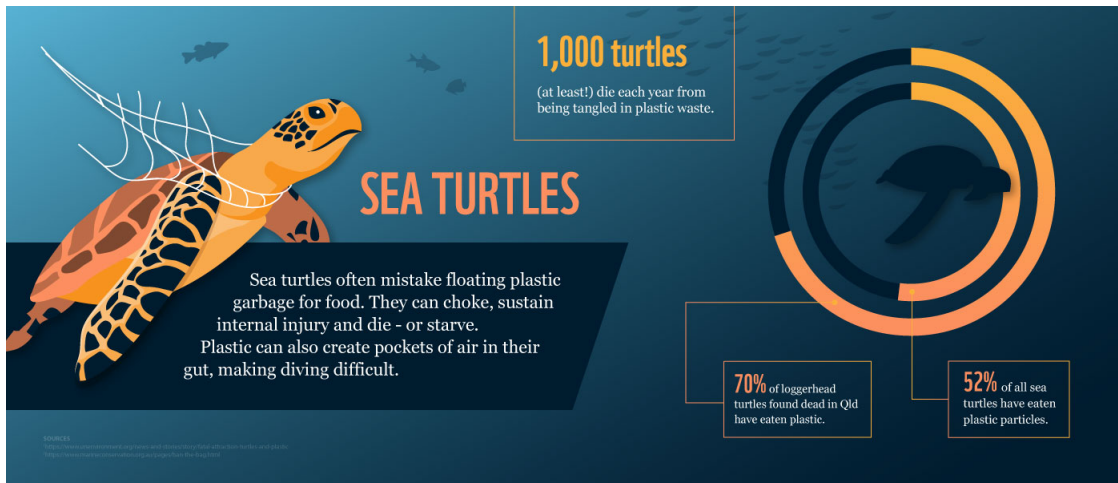
Is this Africa's tallest tree? A German scientist says a tree he discovered in Tanzania's Kilimanjaro Forest Reserve is Africa's tallest.

It is a rare species, called *Entandrophragma Excelsum*, and stands 81.5m (267ft) tall.

[See this tree in a one minute video at BBC](#)

FYI #4

Plastic Pollution is Killing Sea Turtles: Here's How



Credit: WWF

Imagine you're in your kitchen and as you approach the countertop your absolute favourite snack appears right in front of you. It looks just like food, it basically smells like food, so you grab it and gulp it down. This happens to sea turtles every day when they consume plastic debris in the ocean.

Why do sea turtles eat plastic?

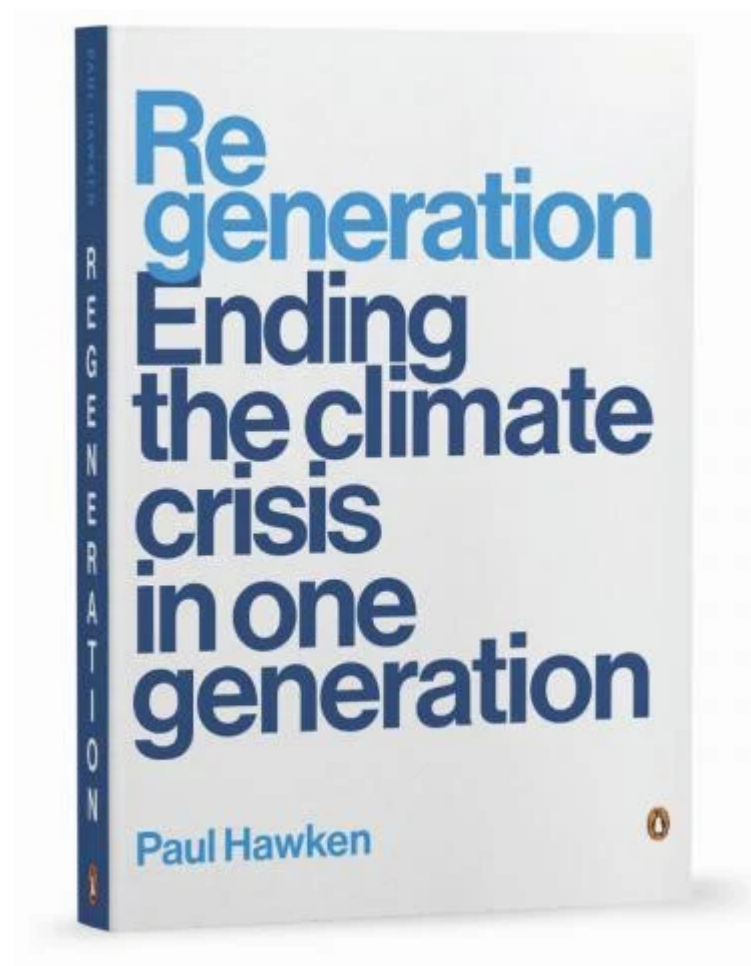
Plastic bags look very similar to jellyfish, fishing nets often look like tasty seaweed. Sea turtles think they're consuming some of their staple foods when really they're welcoming harmful substances into their digestive tract.

Human activities have tipped the scales against the survival of these ancient mariners. Nearly [all species of sea turtle](#) are classified as Endangered, and plastic is doing more than its share of damage.

Read more at WWF

FYI #5: OCTOBER READING

"Regeneration: Ending the Climate Crisis in One Generation" by Paul Hawken



Credit: Book Cover

Regeneration is a radical new approach to the climate crisis, one that weaves justice, climate, biodiversity and human dignity into a seamless tapestry of action, policy, and transformation that can end the climate crisis in one generation. It is the first book to describe and define the burgeoning regeneration movement spreading rapidly throughout the world.

Our purpose is to end the climate crisis in one generation. Ending the crisis does not complete the challenge of global warming. That is a century-long commitment. Ending

the crisis means that by 2030 collective action by humanity will have reduced total greenhouse gas emissions by 45 to 50 percent. At this writing, we are going backward and increasing emissions.

See More at Regeneration

FYI#6: SPOTLIGHT ON EDUCATION

All Together Now - How a Civilian Conservation Corps Could Help Address the Global-warming Emergency



Credit: South_agency/iStock

In the spring of 1933, a newly inaugurated President Franklin Delano Roosevelt was facing a confluence of environmental and economic crises. The Ohio and Mississippi River basins were flooding. The Great Plains were choked with dust. More than a quarter of Americans were out of a job.

Roosevelt's response to these colliding forces was to create a Civilian Conservation Corps that put young men (and only men) to work preserving soil, building trails and roads, and fighting fires. "In creating this Civilian Conservation Corps, we are killing two birds with one stone," Roosevelt said during [a fireside chat](#) in May 1933. "We are clearly enhancing the value of our natural resources and, second, we are relieving an appreciable amount of actual distress."

The American landscape we're living in today is, in many ways, similar to the one Roosevelt inherited. The lockdowns imposed to stem the spread of COVID-19 have sparked the worst economic slump since the Great Depression. [Heavy rains flooded](#) the Midwest this spring, and an above-average hurricane season [could do the same](#) to the East Coast soon. Most of the West is [in a historic drought](#), and large sections of the region are [on fire](#).

It's against this backdrop that President Joe Biden has proposed revitalizing the New Deal-era program. A single sentence in Biden's [American Jobs Plan](#) calls for mobilizing an army of workers to conserve nature and combat the climate crisis: "This \$10 billion investment will put a new, diverse generation of Americans to work conserving our public lands and waters, bolstering community resilience, and advancing environmental justice through a new Civilian Climate Corps, all while placing good-paying union jobs within reach for more Americans."

Now, some legislators are trying to make that vision a reality. In April, Senator Ed Markey of Massachusetts and Representative Alexandria Ocasio-Cortez of New York, both Democrats, introduced a new bill that fills in some of the details of Biden's ambitious idea. Dubbed the [Civilian Climate Corps for Jobs and Justice Act](#), it would put 1.5 million Americans to work building climate-resilient infrastructure, reducing carbon emissions through renewable energy and conservation projects, and helping communities recover from climate disasters. It would grant corpsmembers many of the provisions on Democrats' "social infrastructure" wish list, including a \$15 an hour salary, full health care, and childcare services. Corpsmembers would also receive training and education to help them transition into union jobs.

Read More at Sierra Club

ENDSHOTS

RAPIDLY FALLING AUTUMN
ALONGSIDE COUNTRY ROADS, SEGUIN, ONTARIO

OCTOBER 20, 2021

Amid Latest World and Canadian COVID-19 Stats & Charts



COVID-19 CORONAVIRUS PANDEMIC

Last updated: October 21, 2021, 20:55 GMT

[Weekly Trends](#) - [Graphs](#) - [Countries](#) - [News](#)

Coronavirus Cases:

243,166,098

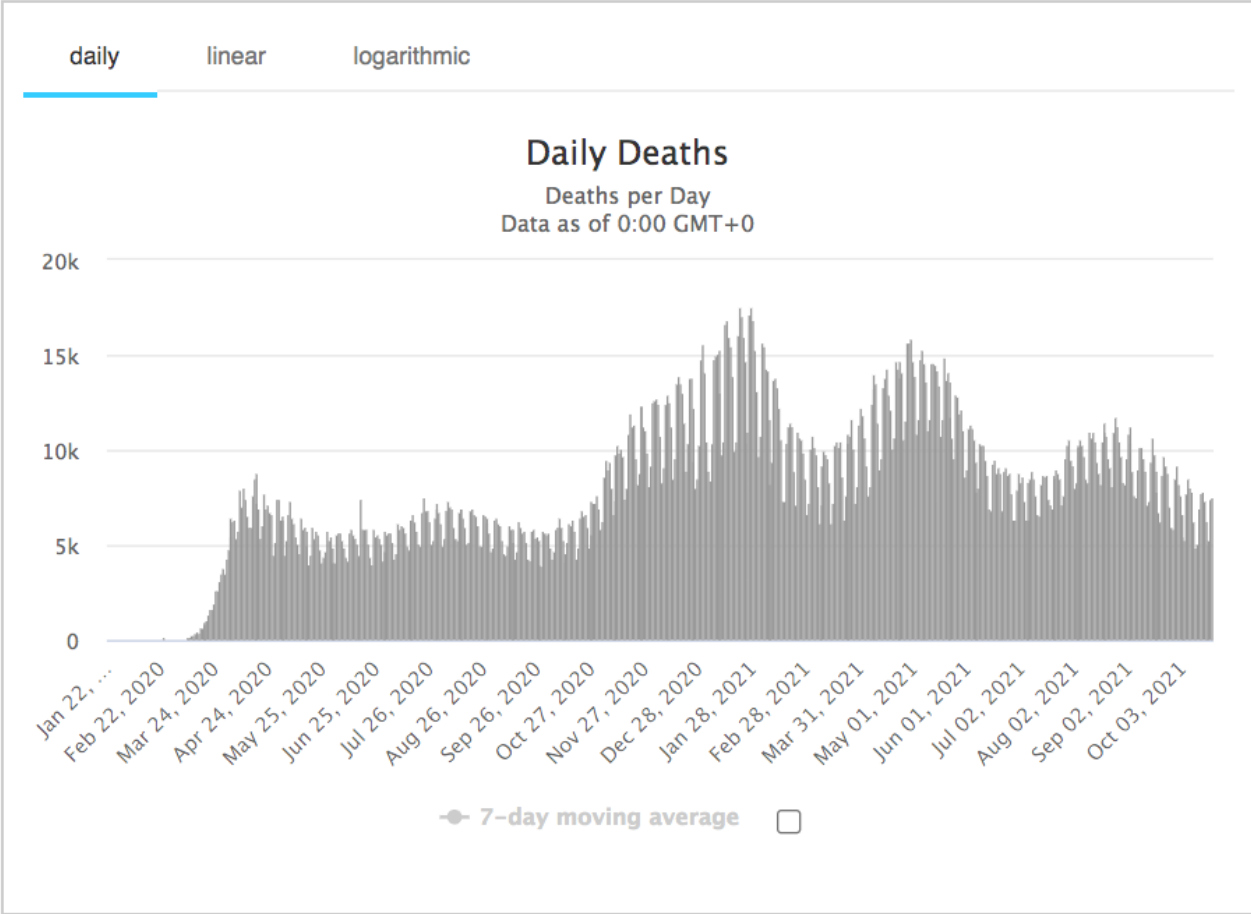
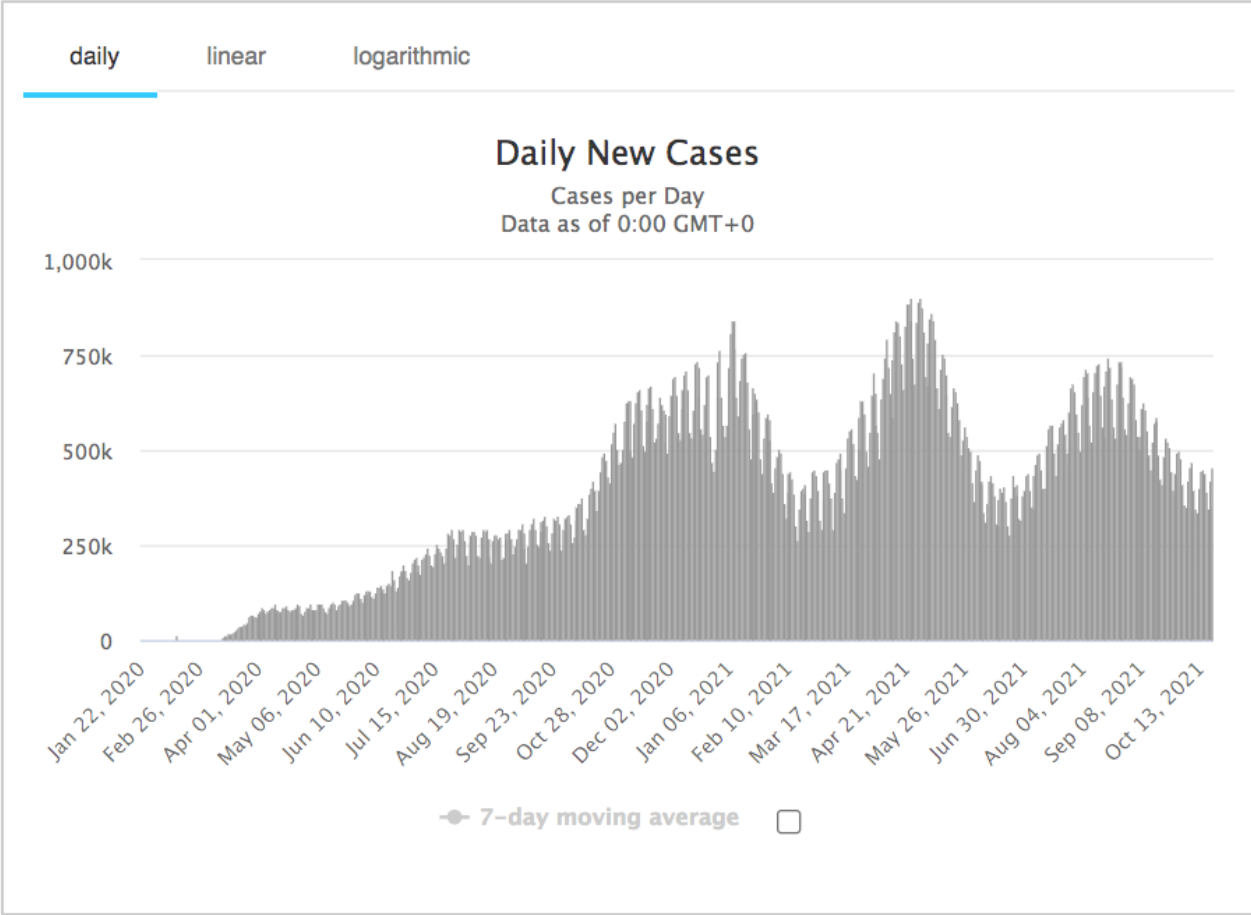
[view by country](#)

Deaths:

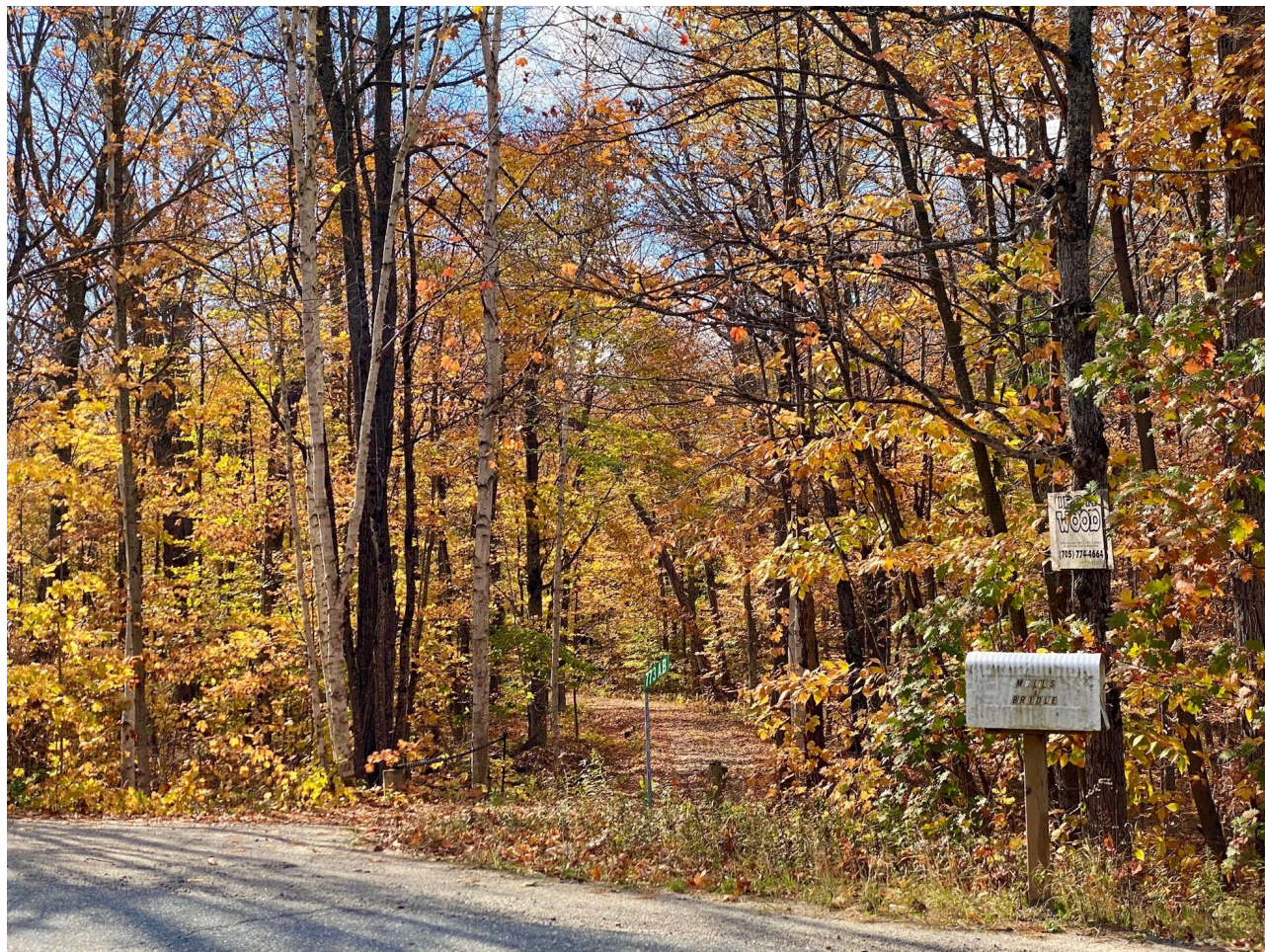
4,942,876

Recovered:

220,368,547



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

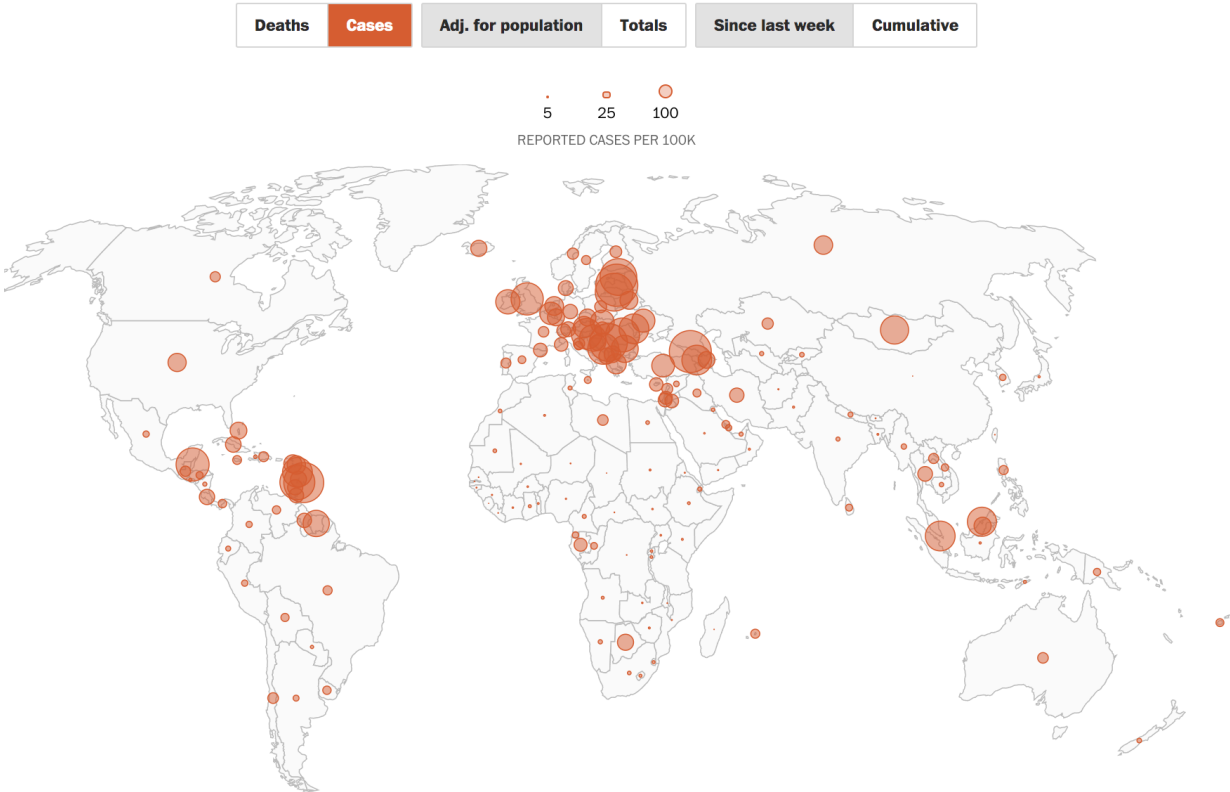


COVID-19 CASES, DEATHS & VACCINATIONS (October 21, 2021) below:
Source:https://www.washingtonpost.com/graphics/2020/world/mapping-spread-new-coronavirus/?itid=sf_coronavirus

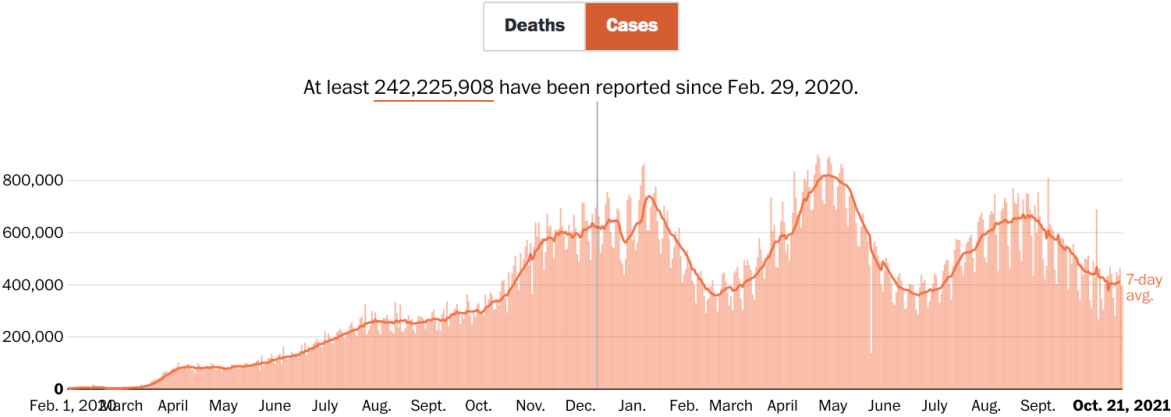
More than
4,925,000
people have died from
the coronavirus worldwide



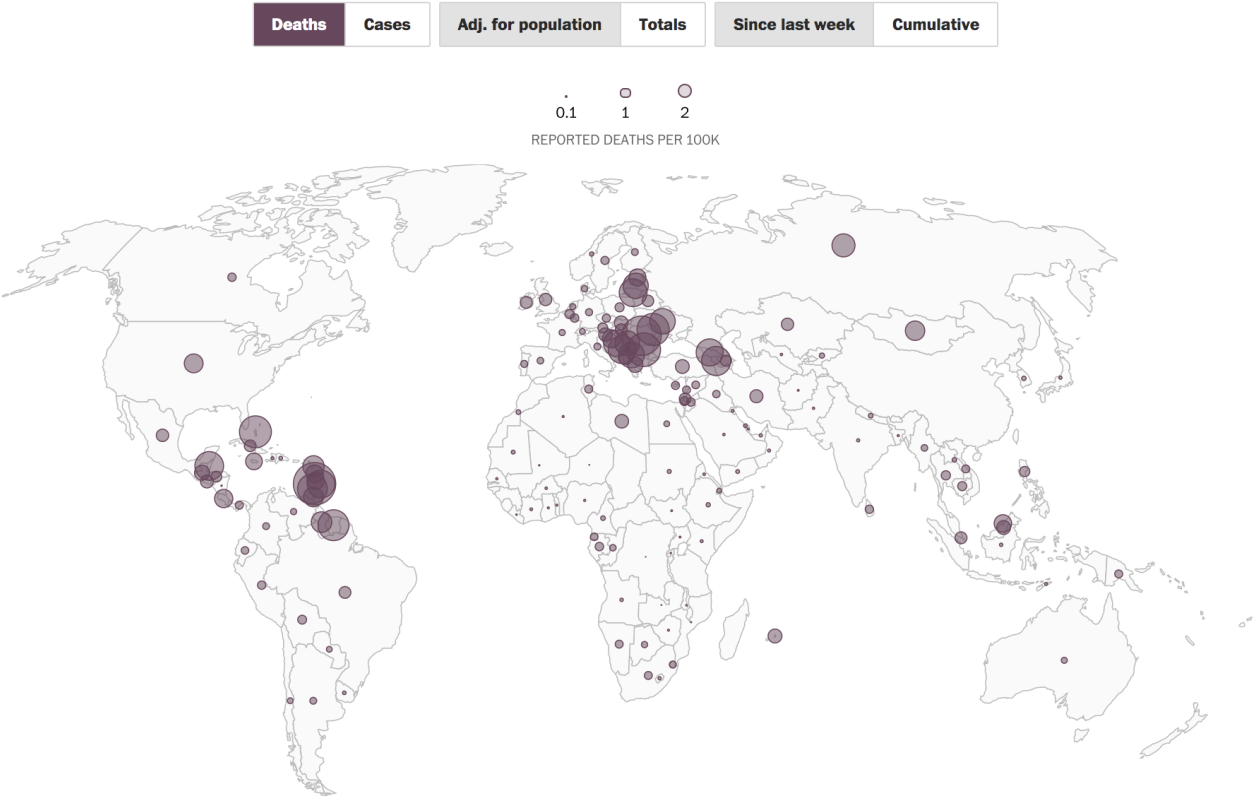
Where the virus is surging



New daily reported cases across the world



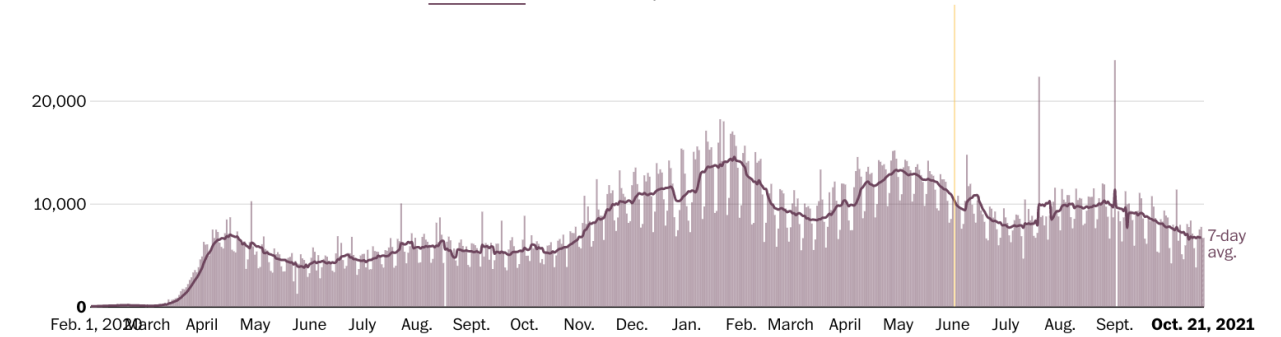
Where the virus is surging



New daily deaths reported across the world

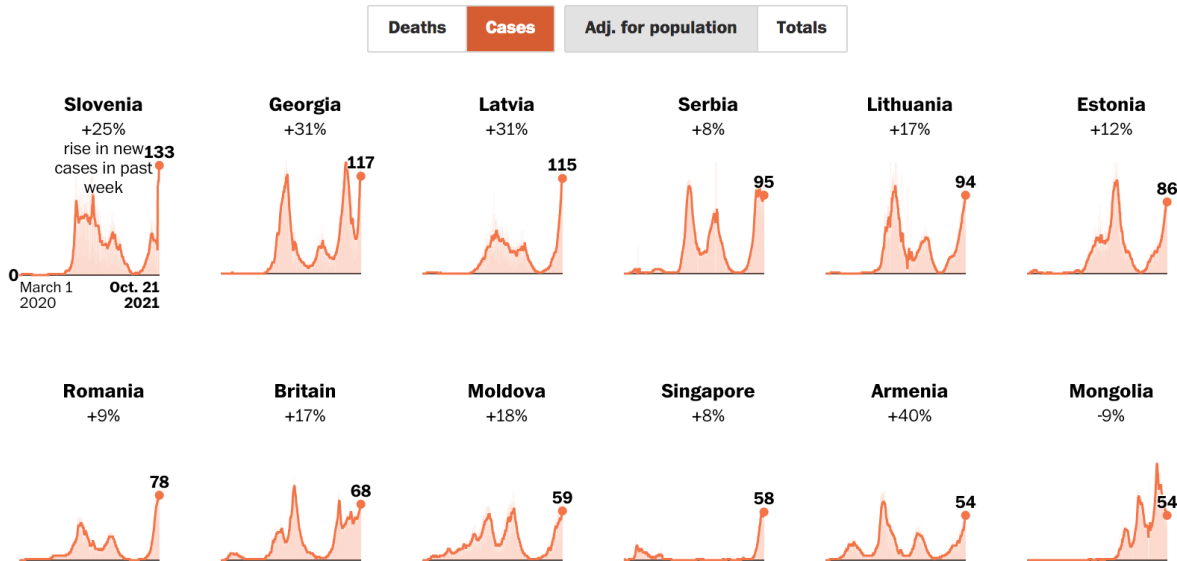
Deaths Cases

At least 4,925,818 have been reported since Feb. 29, 2020.



Global hot spots for reported cases per capita

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



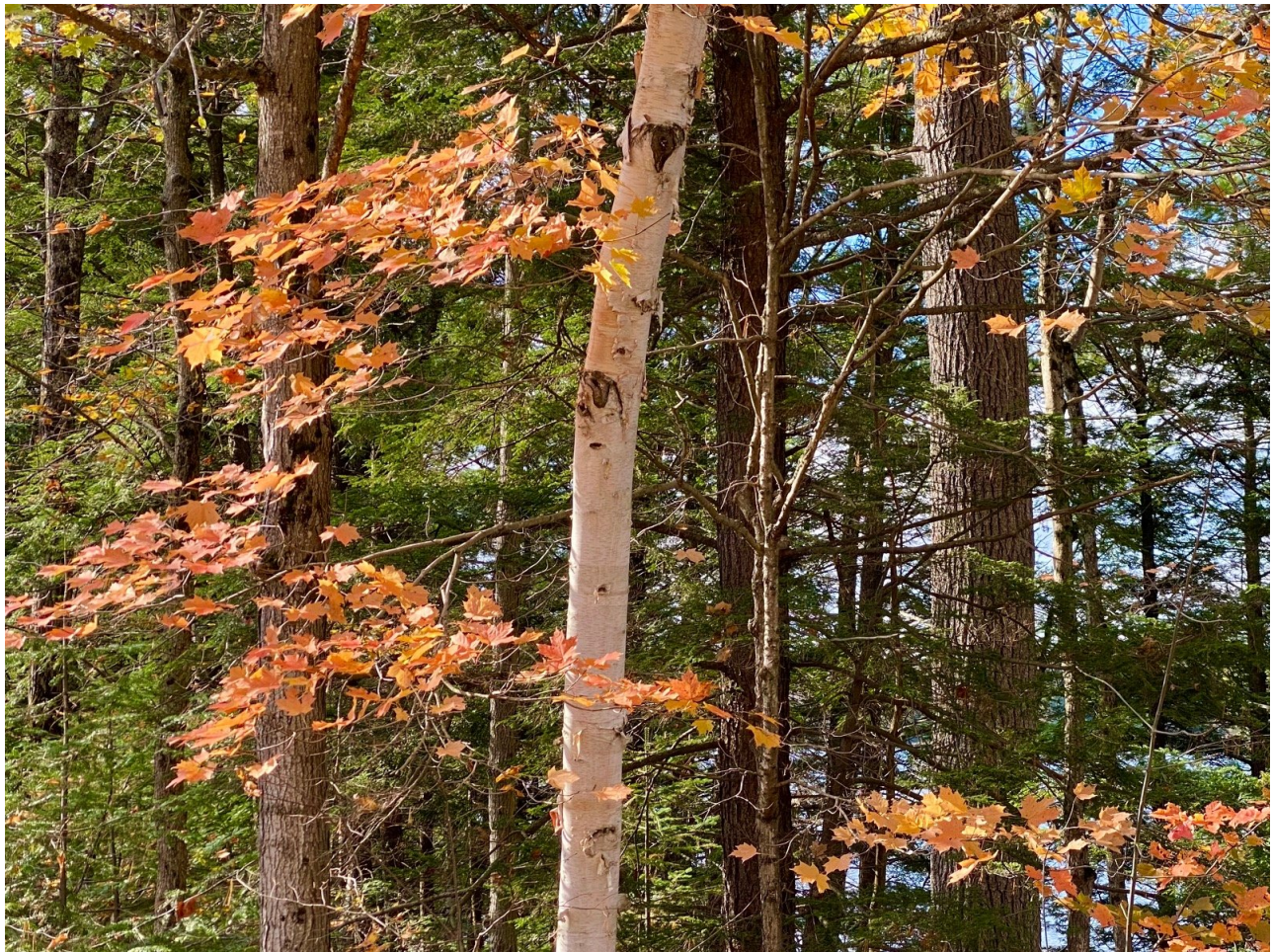
Note: Only countries with a population of more than 1 million are shown.

Global hot spots for reported deaths per capita

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



Note: Only countries with a population of more than 1 million are shown.



Global Vaccination Rates

Country	Total doses given per 100k	Pct. of pop. partially vaccinated	Pct. of pop. completed vaccination
Cuba	219,170	85.9%	60.2%
UAE	212,642	97.8%	87.7%
Malta	194,515	96.6%	96.4%
Uruguay	188,059	79.6%	75.4%
Chile	180,394	85.1%	75.8%
Israel	174,475	68.6%	63.0%
Qatar	169,470	—	—
Singapore	169,432	81.1%	80.1%
Cambodia	163,064	82.6%	77.6%
Seychelles	162,083	82.0%	76.0%
China	160,142	—	—
Bahrain	160,054	68.9%	66.7%
Portugal	157,398	87.6%	86.0%
Iceland	155,662	78.1%	76.9%
Canada	154,015	78.8%	74.1%
Denmark	151,622	76.8%	75.6%
Malaysia	151,605	79.1%	72.8%
Spain	151,035	80.5%	78.8%
Norway	147,808	78.4%	69.4%
Ireland	147,452	76.7%	75.5%
Belgium	146,152	75.5%	74.1%
France	145,462	75.9%	67.9%
Italy	145,221	76.9%	70.5%
Japan	144,711	76.2%	68.5%
Finland	143,656	75.9%	67.7%
South Korea	142,561	78.5%	66.9%
Bhutan	142,545	76.7%	65.8%
Britain	142,051	74.1%	68.0%
Sweden	138,564	70.3%	66.4%
Maldives	137,878	72.8%	65.0%
Netherlands	137,651	—	—

Turkey	137,386	65.9%	57.2%
Greenland	136,518	71.2%	65.3%
Mongolia	136,154	69.9%	66.3%
Mauritius	135,402	69.7%	65.7%
Brunei	133,691	79.5%	54.2%
Germany	132,839	69.0%	66.0%
Andorra	132,265	70.4%	61.9%
Australia	132,034	73.1%	58.9%
New Zealand	131,681	73.3%	58.4%
Saudi Arabia	131,172	70.0%	61.2%
Luxembourg	130,046	68.5%	—
Monaco	128,272	68.5%	59.8%
Fiji	127,749	69.6%	58.1%
Turkmenistan	127,581	73.6%	54.0%
Austria	126,866	65.6%	62.5%
El Salvador	126,726	65.8%	56.0%
Sri Lanka	126,715	67.8%	58.9%
Switzerland	126,350	65.9%	62.3%
Panama	126,319	69.8%	55.2%
Argentina	126,221	71.0%	55.4%
Liechtenstein	124,259	65.2%	60.9%
U.S.	123,800	66.2%	57.2%
Ecuador	123,708	67.9%	58.1%
Brazil	123,164	74.3%	51.2%
Morocco	123,021	63.7%	57.4%
Costa Rica	121,335	71.3%	50.1%
Lithuania	119,437	64.1%	59.0%
Dominican Republic	118,618	60.1%	48.0%
Greece	116,435	61.3%	59.0%
Czechia	111,794	57.6%	56.6%
Slovenia	109,392	56.5%	52.9%
Estonia	106,068	58.4%	55.2%
Oman	105,618	59.5%	46.1%

Antigua and Barbuda	105,010	56.7%	48.3%
Poland	101,235	52.8%	52.1%

Cyprus	100,235	50.2%	47.3%
Peru	98,606	55.1%	43.5%
Serbia	96,778	44.2%	42.4%
Latvia	94,331	54.6%	49.5%
Saint Kitts and Nevis	92,717	49.3%	43.4%
Azerbaijan	92,359	49.8%	42.6%
Thailand	92,120	53.1%	36.3%
Barbados	91,710	50.7%	41.0%
Iran	89,386	59.0%	30.3%
Colombia	88,859	57.1%	39.3%
Taiwan	88,728	64.6%	24.1%
Mexico	88,572	54.5%	40.6%
Belize	88,244	51.2%	37.0%
Slovakia	87,540	45.6%	41.9%
Croatia	86,793	46.1%	43.3%
Trinidad and Tobago	85,213	44.0%	41.2%
Cape Verde	84,972	51.5%	33.5%
Kazakhstan	82,541	43.6%	38.9%
Montenegro	78,546	40.8%	37.7%
Guyana	76,207	47.3%	29.0%
North Macedonia	75,180	38.5%	36.7%
Tunisia	74,802	46.5%	36.3%
Suriname	74,629	42.0%	32.7%
India	72,994	51.7%	21.3%
Uzbekistan	72,366	38.5%	17.5%
Jordan	72,100	38.1%	34.0%
Paraguay	69,935	40.7%	29.2%
Vietnam	69,544	49.8%	19.8%
Russia	68,837	36.0%	32.8%
Dominica	67,828	37.2%	30.6%
Albania	64,560	34.4%	30.1%
Indonesia	64,451	40.6%	23.9%
Timor-Leste	62,705	38.3%	24.4%

Honduras

62,162

36.1%

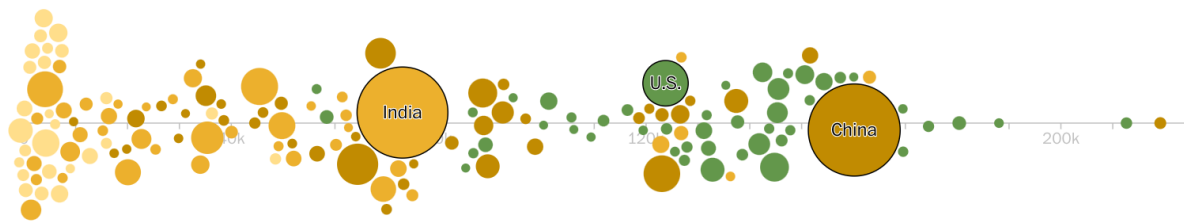
26.0%

Canada is in 15th place globally for doses of vaccines given per 100,000 population; Britain in 29th; U.S. up at 54th; Cambodia is in 9th place





Low-income ●●● High-income



Doses of covid-19 vaccines administered per 100,000 residents

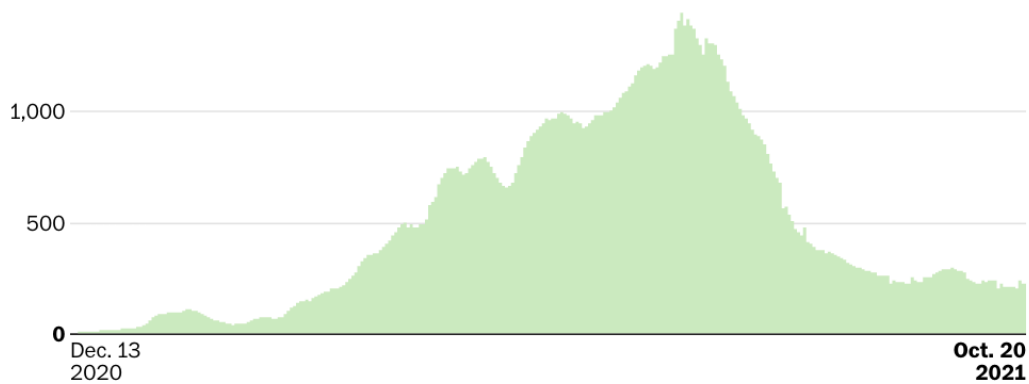
Adj. for population

Totals

■ Reported doses administered per day

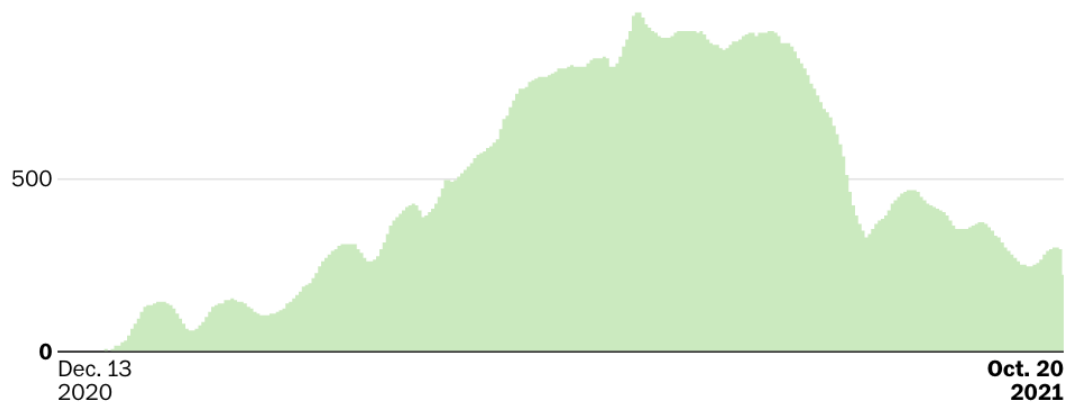
Show by

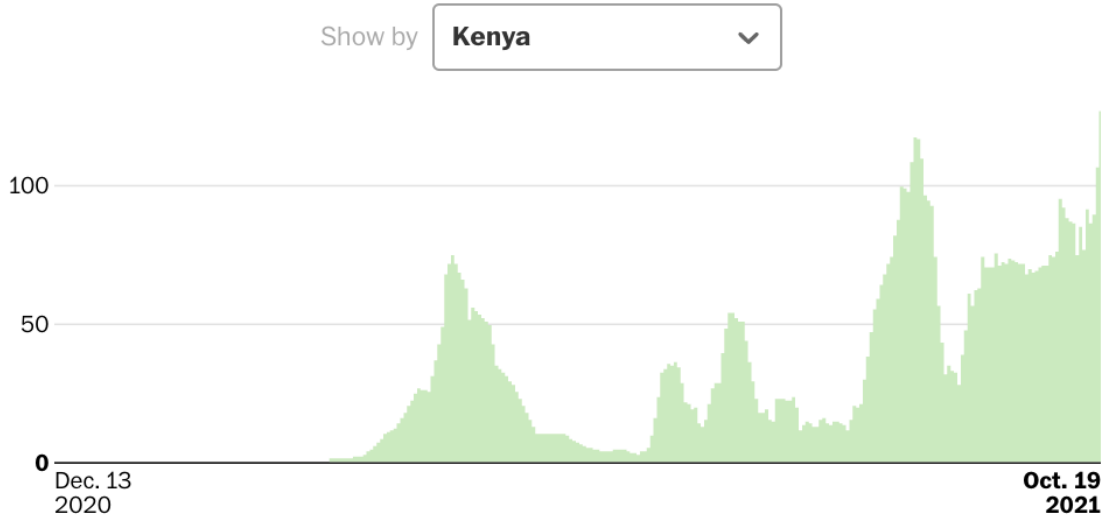
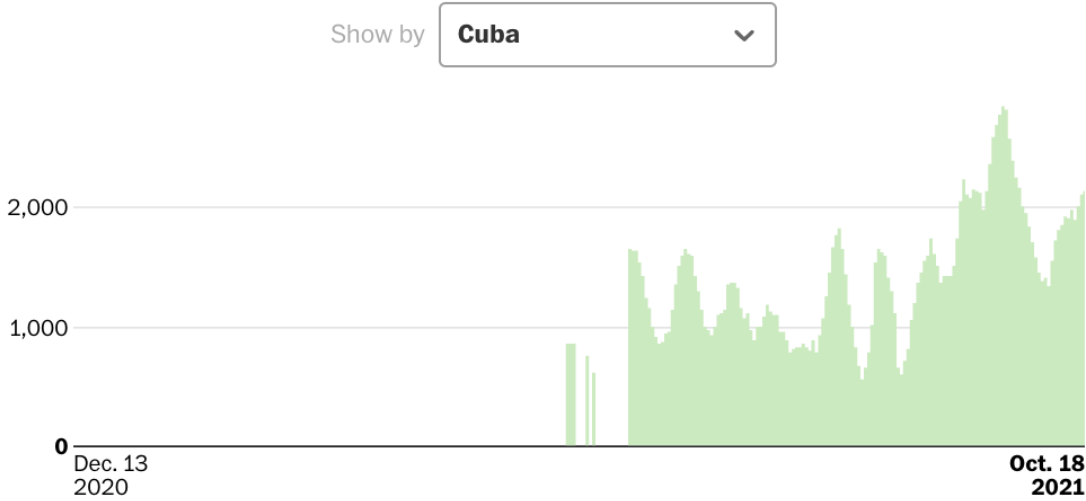
Canada

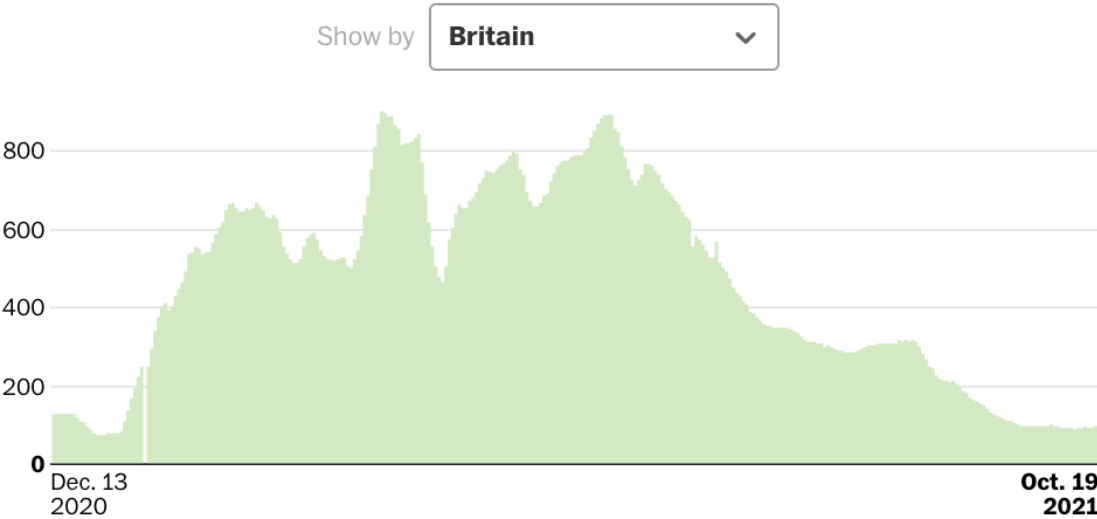


Show by

Italy





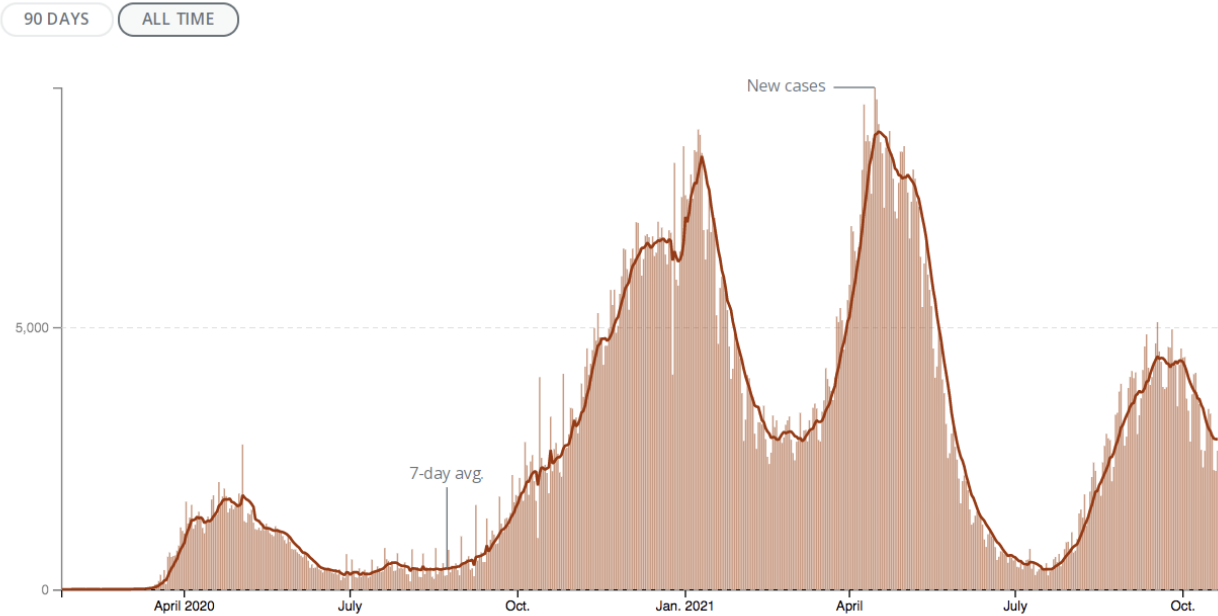


Source of Canadian Data Below (October 20, 2021):
<https://newsinteractives.cbc.ca/coronavirustracker/>

Canada

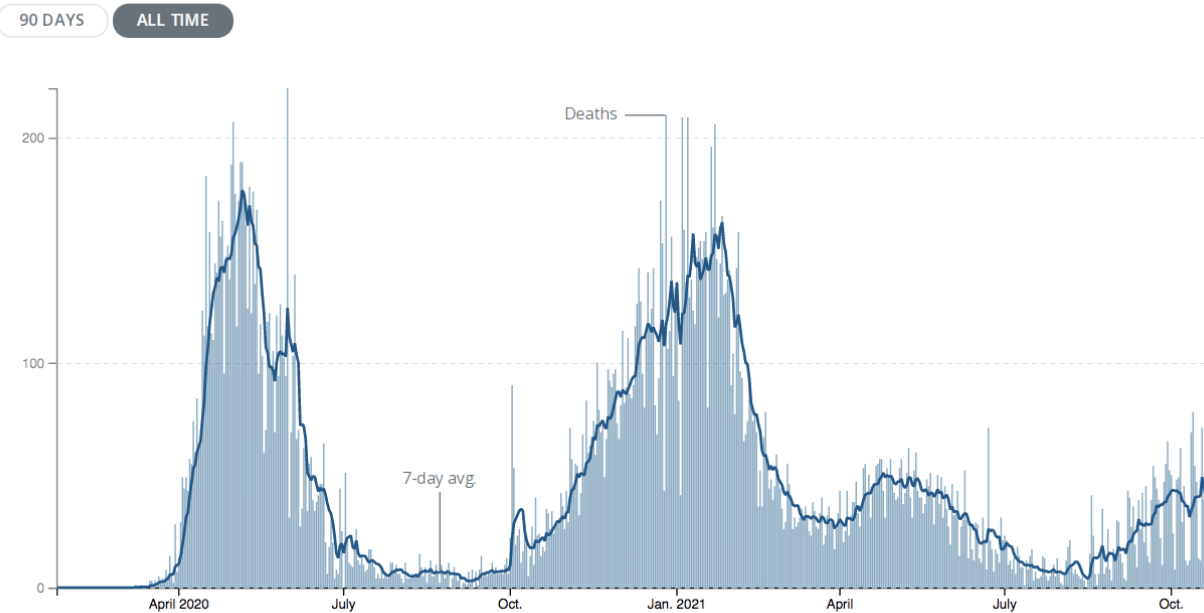
Cases Deaths Hospitalizations ICU

In Canada 1,690,258 cases have been reported.

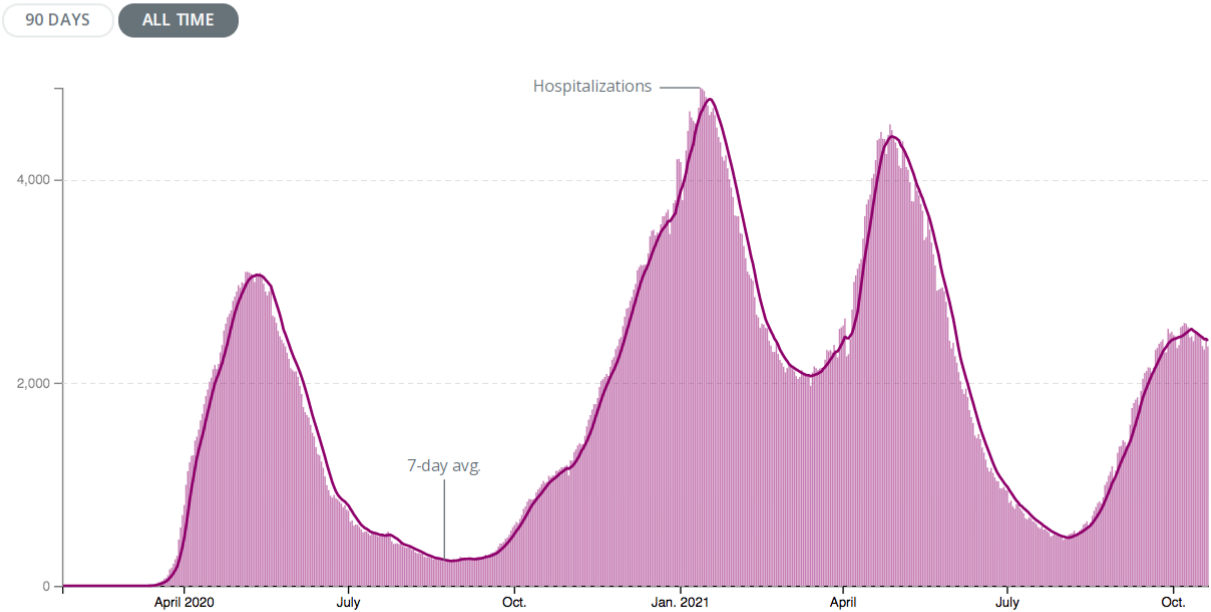


Source: Public Health Agency of Canada.

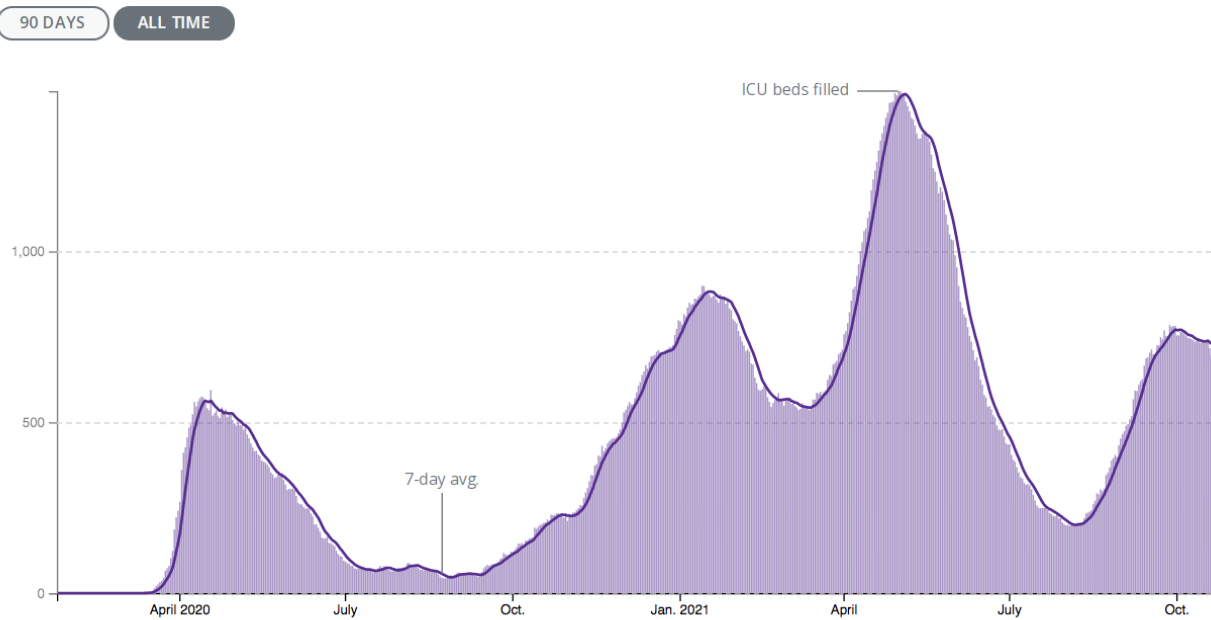
In Canada 28,644 deaths have been reported.



In Canada there are currently 2,356 people hospitalized.



In Canada there are currently 695 ICU beds filled.

















In the past week in Canada...

<p>New cases</p> <p>↓</p> <p>There were 20,043 new cases, a decrease of 13 per cent. That's 52.7 cases per 100,000 people.</p>	<p>Active cases</p> <p>↓</p> <p>The number of active cases declined 17 per cent.</p>	<p>Deaths</p> <p>↑</p> <p>There were 277 deaths, or 0.7 per 100,000 people, an increase of 9 per cent.</p>	<p>Hospitalizations</p> <p>↓</p> <p>Hospitalizations declined 5 per cent and ICU beds filled declined 5 per cent.</p>
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Vaccines

The Pfizer-BioNTech, Moderna, AstraZeneca-Oxford and Johnson & Johnson vaccines have been approved for use in Canada. Johnson & Johnson's is the first single-dose vaccine Health Canada has approved. The others require two doses for someone to be fully vaccinated.

Vaccinations		Doses distributed	
Region	Total doses given	Percentage of people given at least one dose	Percentage of people fully vaccinated
Canada	57,687,332	77.39%	72.64% 
Alberta	6,389,130	73.01%	65.92% 
British Columbia	8,088,314	79.47%	74.38% 
Manitoba	2,056,849	75.20%	71.80% 
New Brunswick	1,218,327	81.07%	73.30% 
Newfoundland and Labrador	852,422	85.37%	78.68% 
Nova Scotia	1,555,823	81.03%	75.79% 
Ontario	22,312,892	77.09%	73.40% 
Prince Edward Island	261,490	82.01%	76.69% 
Quebec	13,131,504	78.58%	74.03% 
Saskatchewan	1,634,488	73.00%	65.53% 
Northwest Territories	70,895	80.00%	75.80% 
Nunavut	48,148	65.13%	57.06% 
Yukon	67,050	78.79%	76.29% 

Source: CBC News.



Source of World Covid-19 Vaccination Data Below, October 21, 2021):
<https://www.bloomberg.com/graphics/covid-vaccine-tracker-global-distribution/>

More Than 6.79 Billion Shots Given: Covid-19 Tracker

In the U.S., 410 million doses have been administered

Updated: October 21, 2021, 12:33 PM EDT



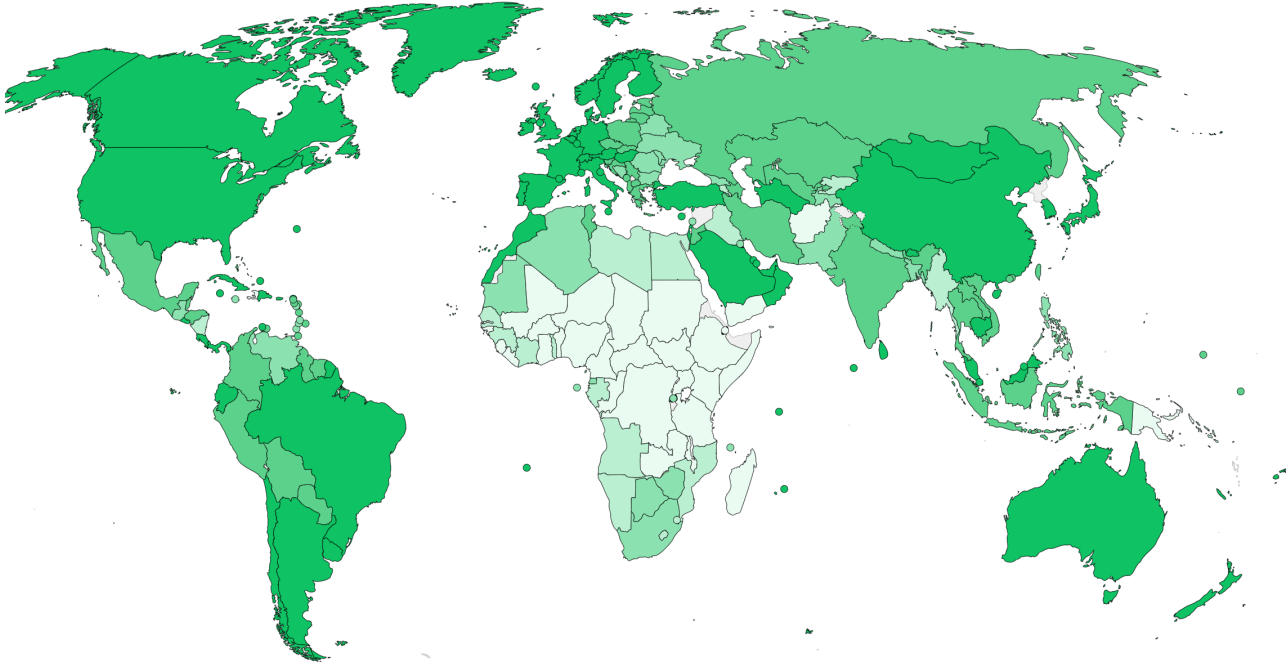
Vaccine Tracker [Global ↗](#) [U.S. ↗](#) [U.S. Vaccine Demographics ↗](#) [FAQ ↗](#) [Covid-19 Tracker ↗](#)

The biggest vaccination campaign in history is underway. More than **6.79 billion doses** have been administered across 184 countries, according to data collected by Bloomberg. The latest rate was roughly **27.6 million doses a day**.

In the U.S., **410 million doses** have been given so far. In the last week, an average of **785,133 doses per day** were administered.

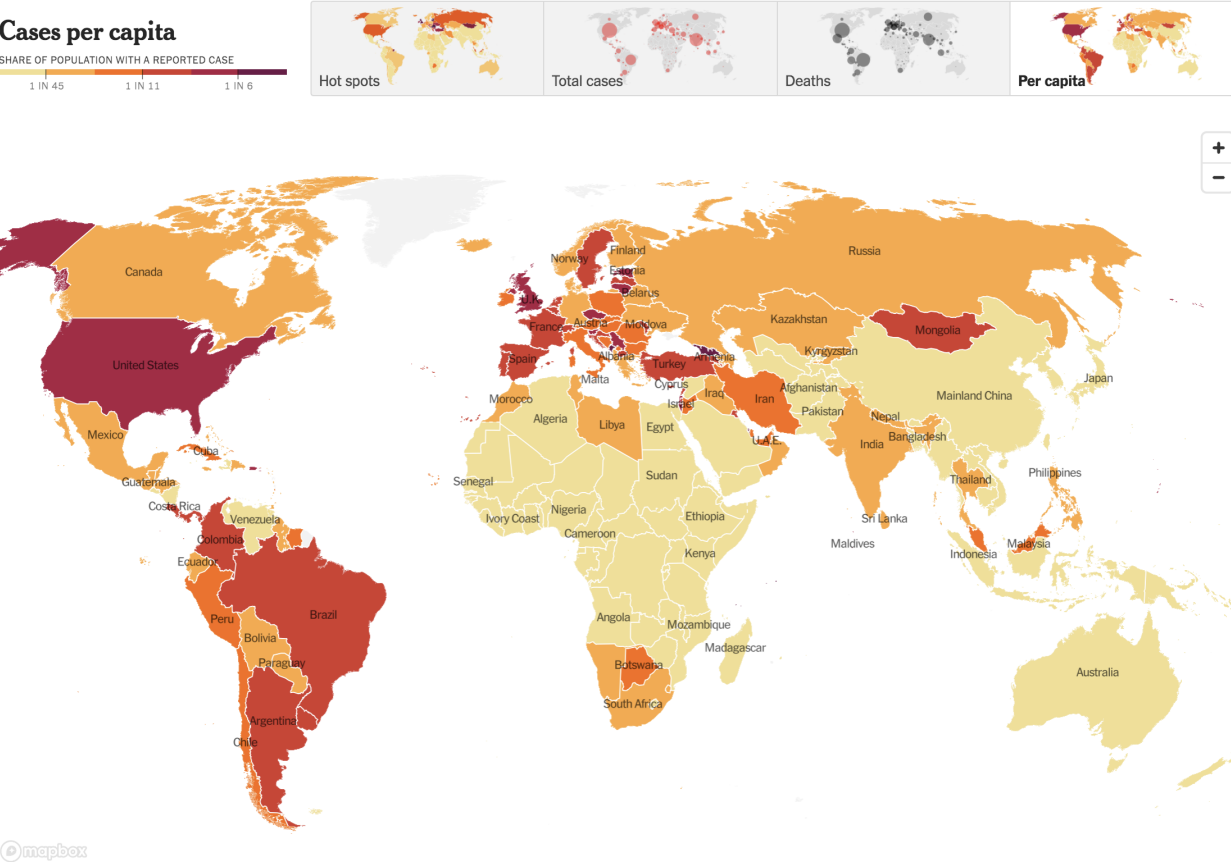
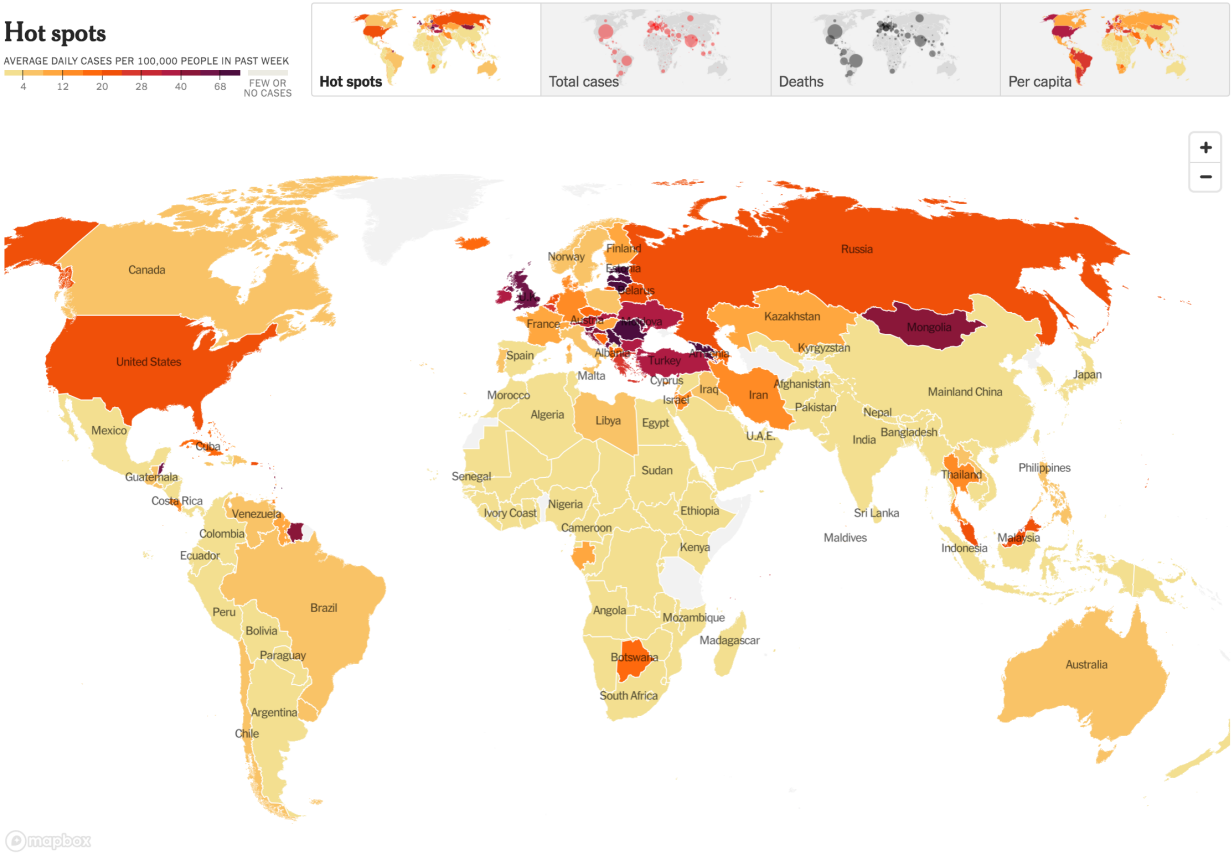
World Map of Vaccinations
More than 6.79 billion doses have been administered—enough to fully vaccinate 44.2% of the global population

no data 5 15 30 60% of population covered





Source of World Data Below (October 21, 2021):
<https://www.nytimes.com/interactive/2021/world/covid-cases.html>



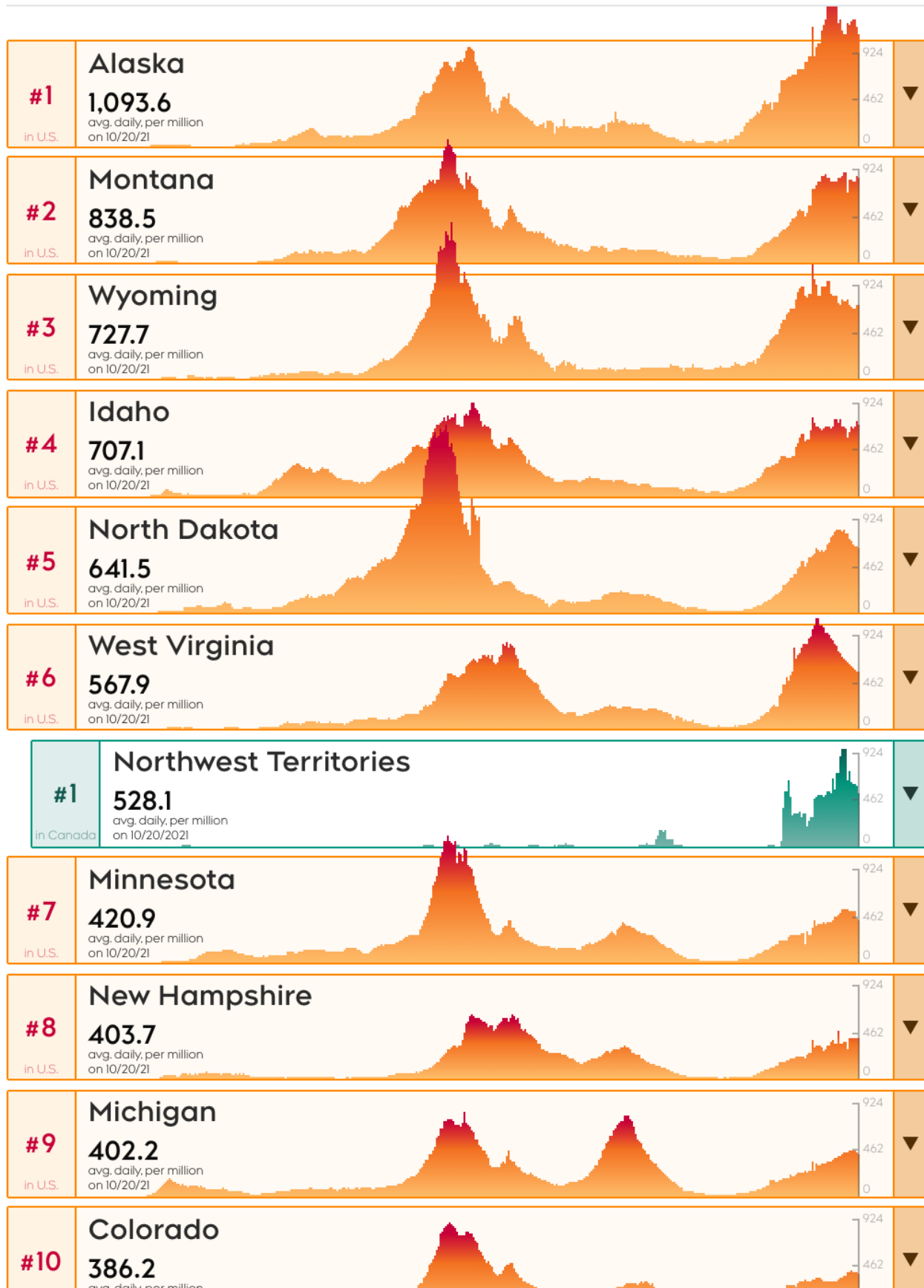


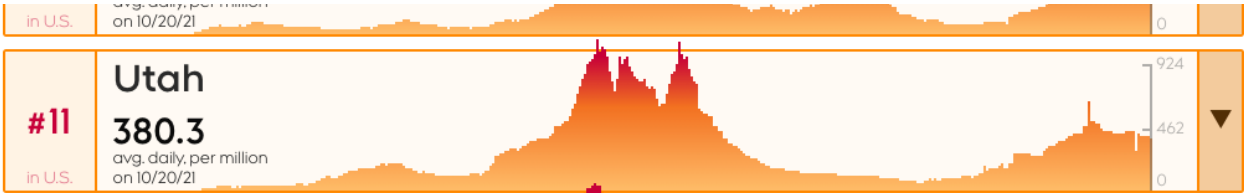
Source of Canadian and U.S. Comparative Data Below (Oct. 21, 2021):
<https://www.ctvnews.ca/health/coronavirus/covid-19-in-the-u-s-how-do-canada-s-provinces-rank-against-american-states-1.5051033>

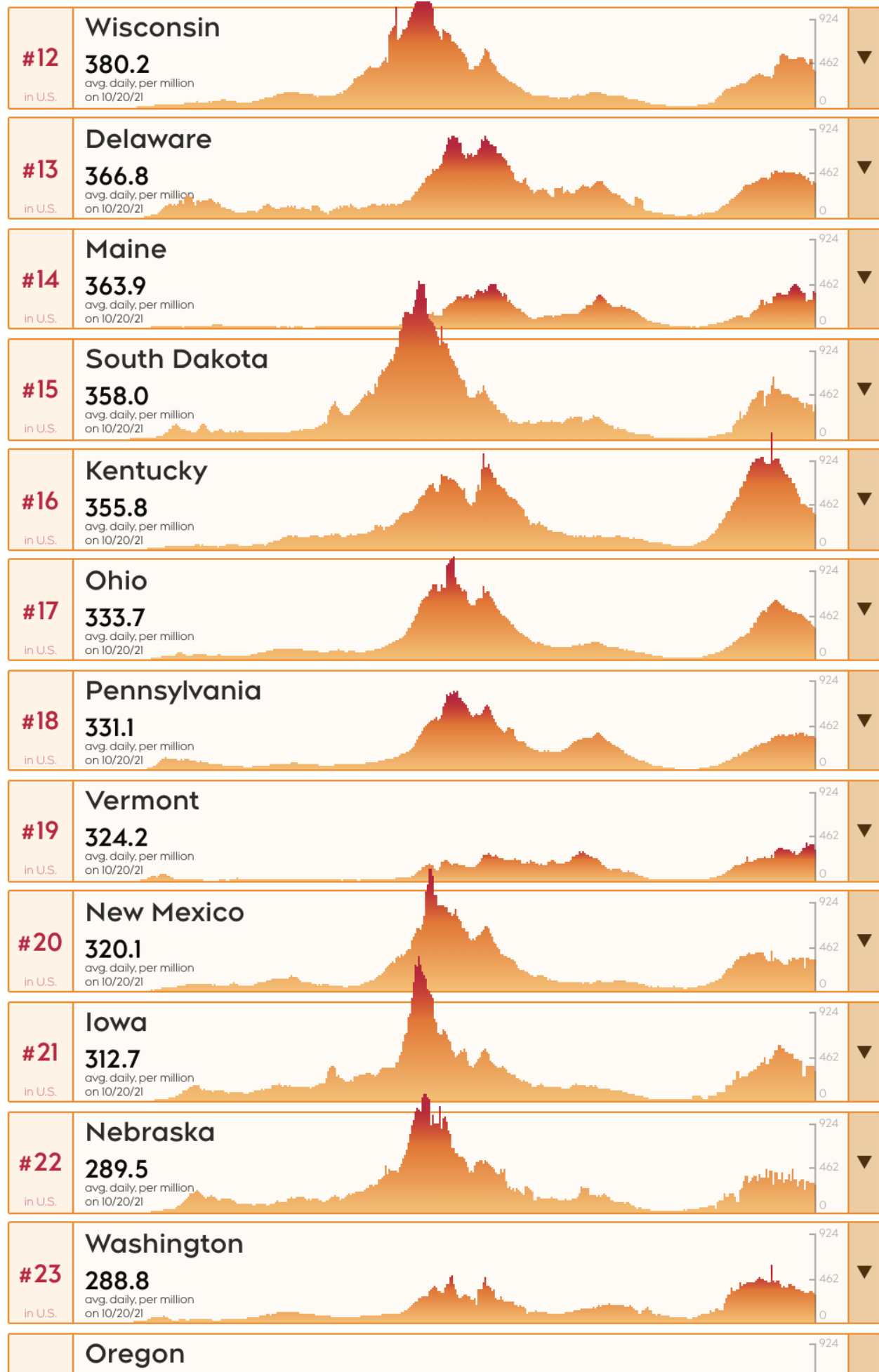
Comparing COVID-19 in states and provinces

Showing **7-day avg.** cases, **per million**

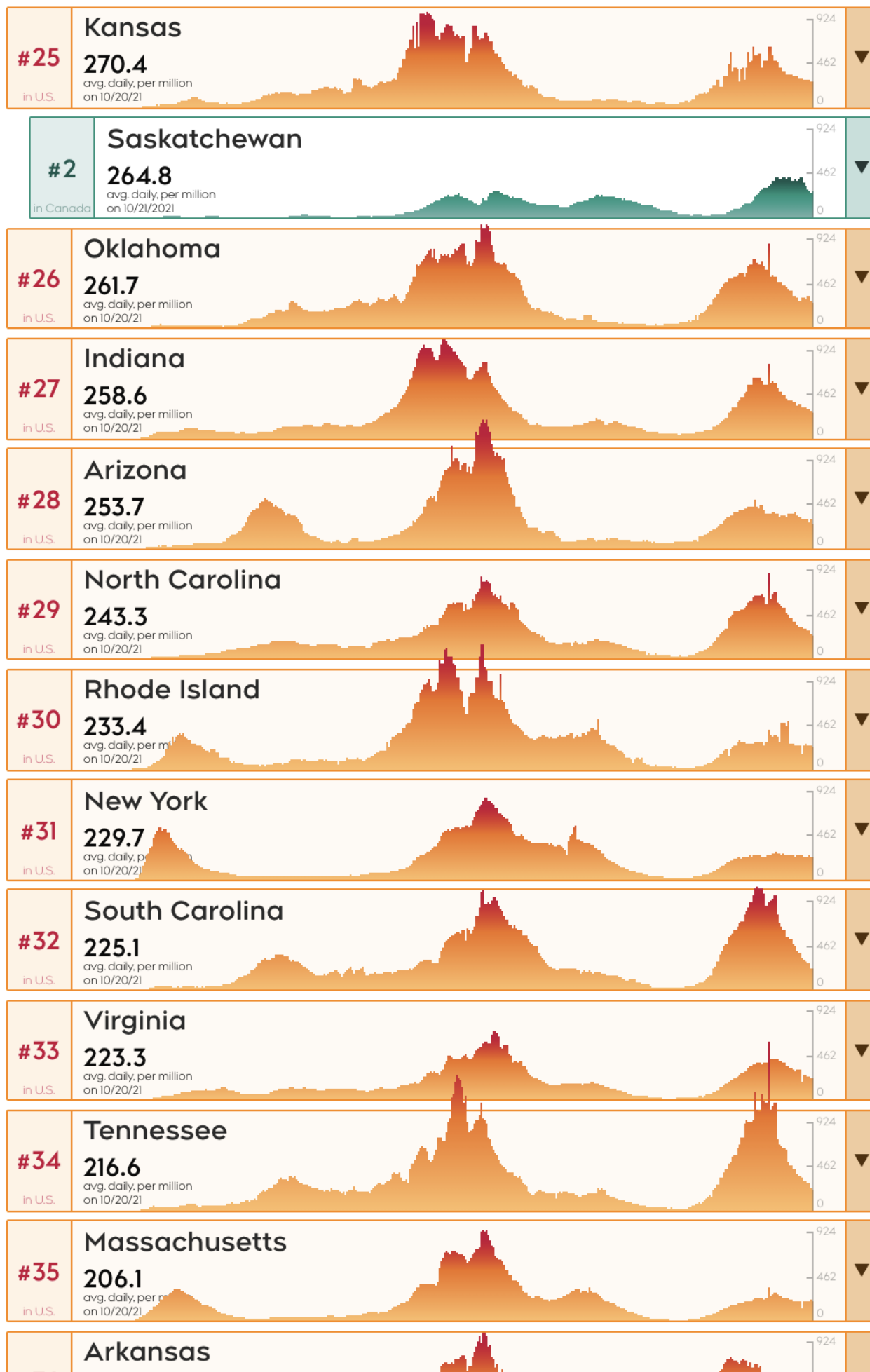
Ranked by highest **current cases** Scale: **all same**



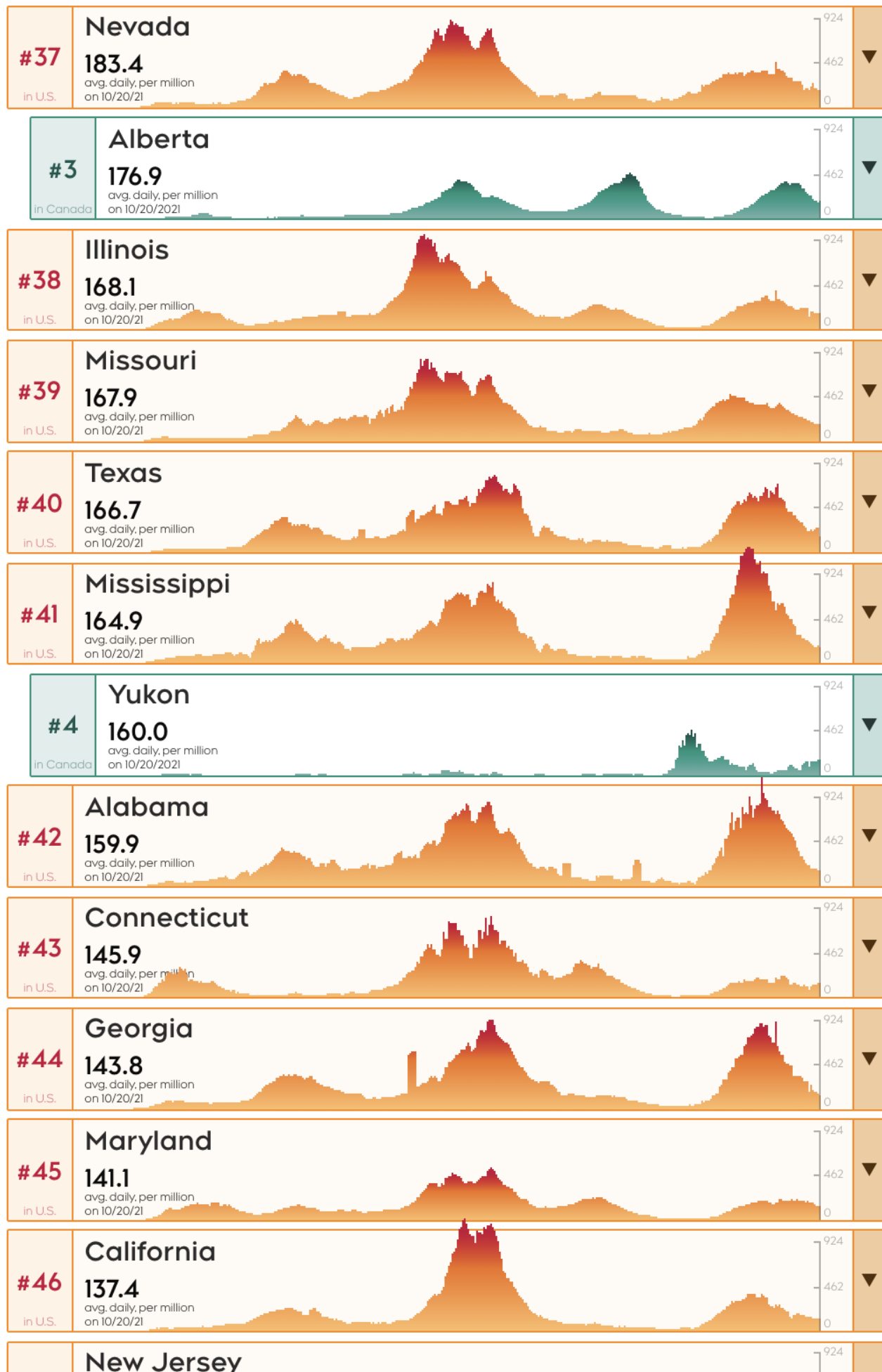














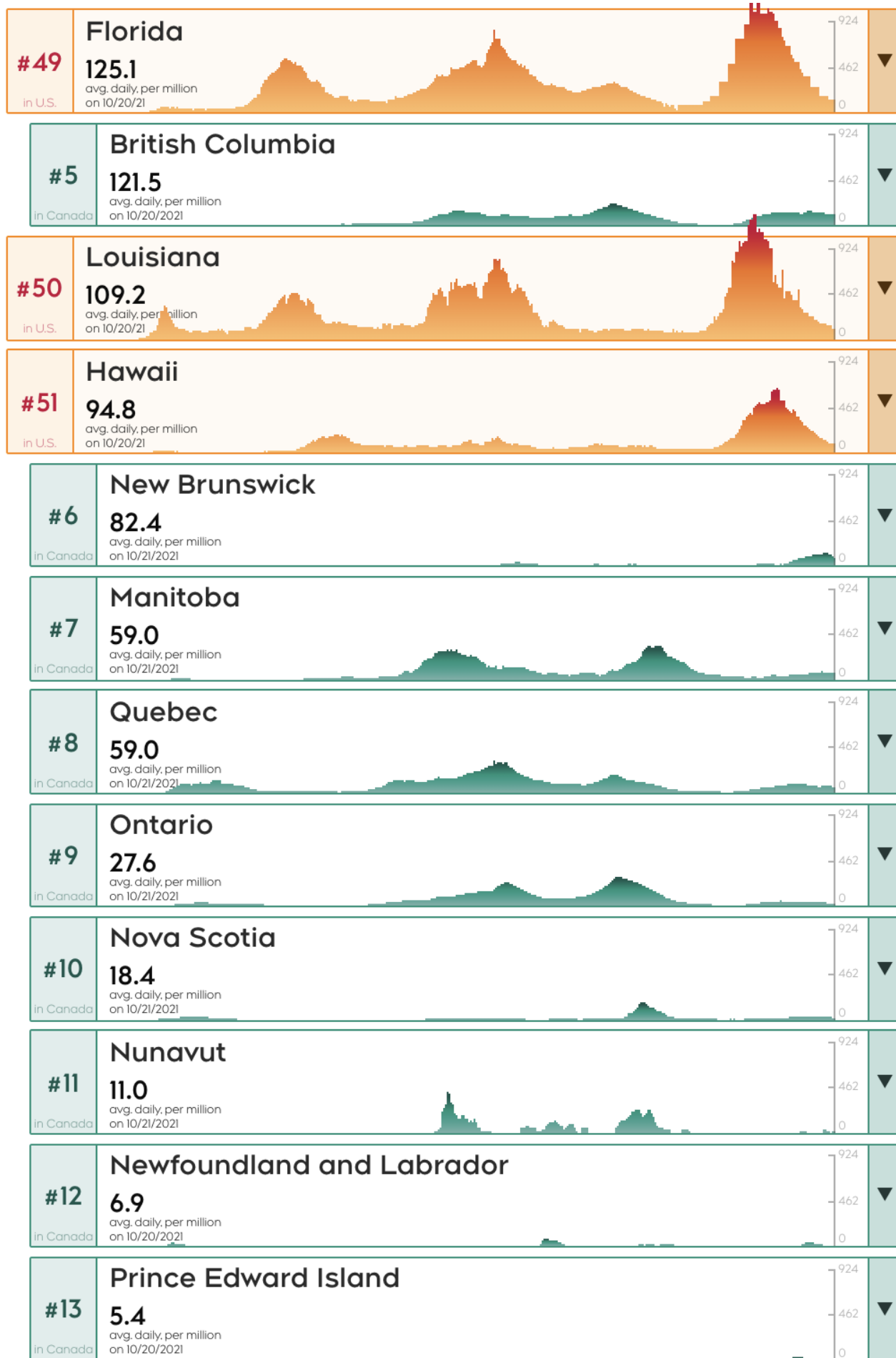




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49 Beresford Avenue
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Publisher and Editor: Dr. David Zakus

Production: Aisha Saleem & Julia Chalmers

Social Media: Shalini Kainth and Ishneer Mankoo

Website, Index and Advisory: Eunice Anteh, Gaël

Chetaille, Evans Oppong, Jonathan Zakus,
Dr. Aimée-Angélique Bouka & Elisabeth Huang

Blogs: Dr. Jay Kravitz and Aisha Saleem

CONTACT US TO COMMENT OR SUBSCRIBE AT:

planetaryhealthweekly@gmail.com
david.zakus@utoronto.ca

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