

CURRENT NEWS ON ECOLOGICAL WELLNESS AND GLOBAL HEALTH

Volume 7, Number 38 <https://planetaryhealthweekly.com> **September 23, 2021**

Hi,

By taking action, you'll have hope. I heard similar words from an inspiring Dr. Katharine Hayhoe, climate scientist, this morning on CBC radio's 'The Current'. Hope is certainly needed as we deal with not only the climate crisis but also the pandemic and many other global, national and personal issues. Action is spurred on by belief and motivation, both of which result from what we know and/or perceive to be true and factual. However, ascertaining truth and fact is not easy these days with so much misinformation and lies being propagated. Luckily there is quite a bit of action these days wrt to climate with the ramping up to the hugely important COP26 meeting in Glasgow from October 31–November 12. But so far it's just words and promises; hopefully actions will follow and then real hope should emerge. With the pandemic there's lots of action, including too many potential patients not listening to their doctors and enabling continued horror. How almost obscene it was during our federal election four days ago when close to 820,000 voted for an anti-science, white nationalist and populist party. Luckily the other 17+ million had more wisdom. But even among all our major political parties there was a dearth of real climate commitment with numerical goals, aside from dates in the future for general and vague promises of what they'd do if elected. Such blustering has to stop and our new members of parliament must get down to real action, as tough as it will be, and give us some hope.

In today's **Planetary Health Weekly** (#38 of the year) you'll find lots to act on, including perhaps some revolutionary proposals and actions:

- Canada must leave 83% of fossil fuels in the ground in latest 1.5C scenario,
- To meet Paris Accord goal, most of the world's fossil fuel reserves must stay in the ground,
- CORONAVIRUS UPDATES:
 - How Covid is derailing the fight against HIV, TB and malaria,
 - So you're vaccinated – how can you let people know,
 - There is an antibody treatment that stops every Covid-19 variant and possibly all future variants,
 - Vaccines put the brakes on the pandemics advance, early impact of Covid-19 vaccines in Stockholm, Sweden,
 - Poverty, disease, customs: why so many Indonesian children die of Covid,
 - Human rights office to probe 'disturbing surge of hate' in B.C. during pandemic,
 - Why are so many knowledge workers quitting? and
 - The *Spectator* Covid-19 data tracker for the U.K., THEN
- The ocean is losing oxygen and more dead zones will soon follow,
- Gambia is the world's only country on track to meet its Paris agreement,
- One in three minors in Costa Rica lives in poverty,
- Controversy over using quality-adjusted life-years (QALYs) in cost-effectiveness analysis,
- Pandemic gives breathing room to endangered sea turtles on a Greek island,
- Billie spins yarn from textile wastes with neither water nor chemicals in Novetex's bid to cut emissions and wastes,
- The world needs better climate pledges,
- Fossil fuel companies are quietly scoring big money for their preferred climate solution: carbon capture and storage,
- 'Invest in healing': Chief RoseAnne Archibald on what the next Canadian government must do,
- Quote on the climate crisis from WMO,
- Thousands call for fossil fuel non-proliferation treaty as UN meeting kicks off,
- Explosive mix as big international players move in to exploit Mozambique's vast natural gas resources but to whose benefit?
- Wildfire smoke is an emerging threat to west coast wines,
- Coffee may reduce risk of death from stroke and heart disease,
- New book: "Predatory Leadership: Are Nations Getting the Governments They Deserves?" by Chris Simms,
- Young Toronto Green Party candidate thinks politicians need a science lesson, and lastly

- ENDSHOTS of Fruits of the Earth; Nature's Bounty in Niagara-on-the-Lake, Ontario amid the latest Covid-19 stats and charts from Canada and around the world.

If you act, you'll also have hope. Wishing you a good week to come.

Best, david

David Zakus, Editor and Publisher



Niagara-on-the-Lake, Ontario Vineyard
September 19, 2021

Canada Must Leave 83% of Fossil Fuels in the Ground in Latest 1.5°C Scenario



Credit: Greenpeace/Jiri Rezac

Canada must leave 83% of its fossil fuel reserves and 84% of its tar sands/oil sands in the ground if the world is to have even a 50% chance of holding average global warming to 1.5°C, according to a [paper just published](#) in the prestigious journal *Nature*. The figures are part of a global calculation that calls for oil and gas production across all regions to fall 3% per year through 2050. And the authors say the actual cuts will probably have to be faster and deeper.

Even the 3% annual target “implies that most regions must reach peak production now or during the next decade, rendering many operational and planned fossil fuel projects unviable,” write authors Dan Welsby, James Price, Steve Pye, and Paul Ekins of University College London (UCL). But “we probably present an underestimate of the production changes required, because a greater than 50% probability of limiting warming to 1.5°C requires more carbon to stay in the ground, and because of uncertainties around the timely deployment of negative emission technologies at scale.”. **Read more at [the Energy Mix](#).**

To Meet Paris Accord Goal, Most of the World's Fossil Fuel Reserves Must Stay in the Ground

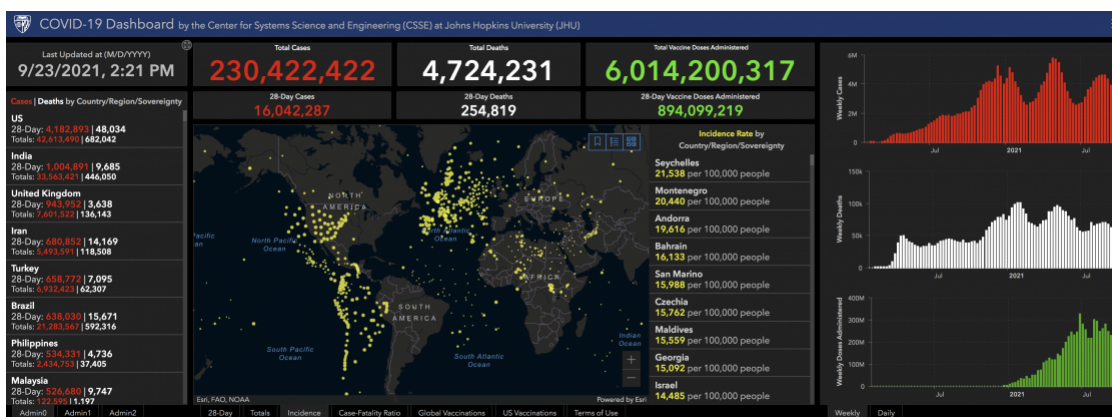


Credit: Credit: Kyle Grillo/Bloomberg via Getty Images

After a summer of weather extremes that highlighted the urgency of limiting global warming in starkly human terms, new research is clarifying what it will take to do so. In order to have just a 50 percent chance of meeting the most ambitious climate target, the study found, the production of all fossil fuels will need to start declining immediately, and a significant majority of the world's oil, gas and coal reserves will have to remain underground over the next few decades.

While the research, [published in the journal Nature](#), is only the latest to argue that meeting the 2015 Paris Agreement goals to limit warming requires a rapid pivot to clean energy, it lays out with clear and specific figures exactly how far from those targets the world remains. **Read more at [Inside Climate News](#).**

SARS-CoV-2 & COVID-19 UPDATES



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

Globally for the first time in some months there are some

tiny improvements, though overall it is still emergency mode. The unvaccinated and the Delta variant keep it all going, and many hospitals and health care workers remain in crisis. Sadly, too, the lack of vaccines in poor countries is not improving.

Over the last week there were about 5.5 million new cases of Covid-19 (about the same as last week) and 58,000 new deaths (down 10%, mostly reversing a big increase last week); and about 205 million people received a vaccine, or an average of almost 30 million doses per day (down slightly). At this rate the world will need six more 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

How COVID is Derailing the Fight Against HIV, TB and Malaria



Credit: Emmanuel Osodi/Majority World/Universal Images Group/Getty

The COVID-19 pandemic has had a “devastating” impact on the fight against other deadly infectious diseases, according to a report that compares 2019 and 2020 data on HIV, tuberculosis (TB) and malaria in more than 100 low- and lower-middle-income

countries. The assessment was conducted by the Global Fund, an international organization that funds efforts to tackle these three health challenges.

“COVID-19 has been the most significant setback in the fight against HIV, TB and malaria, that we have encountered in the two decades since the Global Fund was established,” writes the organization’s executive director Peter Sands in an introduction to its [Results Report 2021](#). **Read more at [Nature](#)**

MORE SPECIFIC COVID-19 STORIES:

At Wired: [So You’re Vaccinated! How Can You Let People Know?](#)

At The Daily Kos: [There is an Antibody Treatment that Stops every COVID-19 Variant—and Possibly all Future Variants](#)

At The Independent: [Vaccines put the brakes on pandemic's advance](#)

At News-Medical : [Early Impact of COVID-19 Vaccines in Stockholm, Sweden](#)

At NY Times: [Poverty, Disease, Customs: Why So Many Indonesian Children Die of Covid](#)

At Q107: [Human Rights Office to Probe 'Disturbing Surge of Hate' in B.C. During Pandemic](#)

At New Yorker: [Why Are So Many Knowledge Workers Quitting? The coronavirus pandemic threw everyone into Walden Pond.](#)

At Spectator: [The Spectator Covid-19 Data Tracker for the UK](#)

The Ocean is Losing Oxygen. This Scientist Says More “Dead Zones” Will Soon Follow



Credit: Jack Charles/Futurism

Oregon State University biologist Francis Chan's scientific career began when he was a postdoctoral researcher preparing for his first research cruise off the coast of Oregon and he got a call that sent him on an entirely different journey.

Fishers had started to report strange occurrences nearby. They were pulling up pot after pot of dead crabs, and an octopus climbed up the fishers' ropes to escape something that they couldn't see. Because he'd already reserved the boat, the Oregon Department of Fish and Wildlife asked Chan to go look for obvious culprits like an oil spill or red tide.

It wasn't until he dropped underwater sensors in the area that he realized what was wrong: the levels of dissolved oxygen in the area had plummeted so dangerously low that sea creatures had started to flee any way that they could. Those that couldn't died, leaving a mass graveyard all along the ocean floor.

Chan went back to the archives to check whether this had ever happened before and learned that no, these low oxygen zones that have now come to be known as "hypoxic zones" didn't used to happen so close to the shore. "And then it came back again the next year, and again the year after that, and then the year after," Chan said.

Now, a hypoxic zone forms off the coast of Oregon [every summer](#). **Read more at [Futurism](#).**

Gambia is the World's Only Country on

Track to Meet its Paris Agreement



In this April 21, 2021 file photo, smoke and steam rise from towers at the coal-fired Urumqi Thermal Power Plant in Urumqi in western China's Xinjiang Uyghur Autonomous Region. Credit: The Associated Press/Mark Schiefelbein

Nearly every nation is coming up short — most of them far short — in their efforts to fight climate change, and the world is unlikely to hold warming to the internationally agreed-upon limit, according to a new scientific report.

Only one nation — tiny The Gambia in Africa — is on track to cut emissions and undertake its share of actions to keep the world from exceeding the [Paris agreement](#) goal of limiting warming to 1.5 degrees Celsius (2.7 degrees Fahrenheit) of warming since pre-industrial times. **Read more at [National Observer](#).**

One in Three Minors in Costa Rica Lives in Poverty



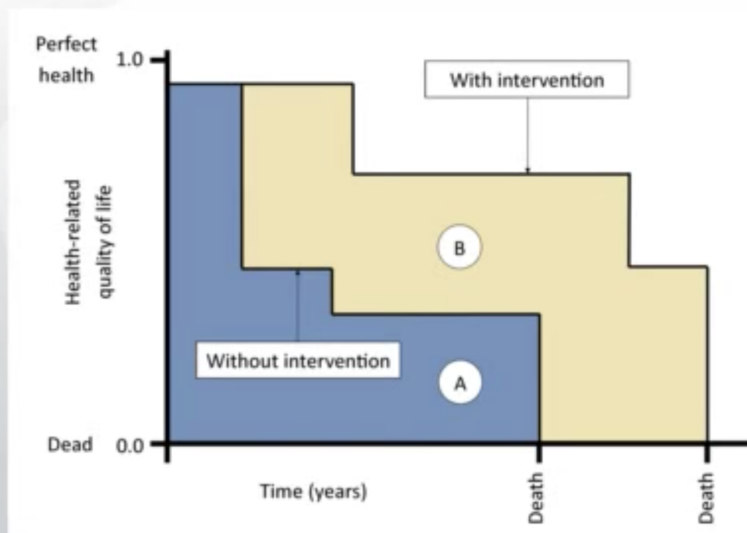
Credit: Photo by Ezequiel BECERRA / AFP

"The girls, boys, adolescents and young people have been making an urgent call to us for help. The effects of the pandemic, the digital divide and the economic crisis affect the present and future of this population," said Patricia Portela de Souza, representative of UNICEF Costa Rica.

According to UNICEF, data from the National Household Survey indicate that 448,000 minors (32% of the country's 1.4 million) in Costa Rica grow up being part of poor households. The figure will only continue to rise in the coming months, pushed by the limitations in education and unemployment caused by the Covid-19 pandemic. **Read more at [Ticotimes](#).**

Controversy Over Using Quality-Adjusted Life-Years in Cost-Effectiveness Analyses: a Systematic Literature Review

Quality-adjusted life year



Credit: Wikipedia

Researchers and policy makers in the U.S. are exploring the implementation of health technology assessment and value-based pricing to negotiate drug prices and limit spending. Objections made to the quality-adjusted life-year (QALY), the most frequently used health economic outcome for such assessments, are a barrier to the adoption of these tools. This literature review identifies and addresses the range of criticisms made against QALYs. Methods-based criticisms require attention from stakeholders to address well-known shortcomings of the QALY and ensure consistency. Ethical criticisms, however, do not apply only to the QALY and require political decisions about societal values. Understanding and overcoming criticisms of the QALY to enable its use as part of health technology assessment and value-based pricing will be crucial as policy makers seek to address high drug costs and health care spending. **Read more at [Health Affairs](#).**

GOOD NEWS

Pandemic Gives Breathing Room to Endangered Sea Turtles on a Greek Island



Researchers found that loggerhead turtles changed their behaviour during the pandemic, when tourist numbers drastically fell at a key nesting site in Zakynthos, Greece. Credit: Giacomo Augugliaro/Getty

Nikoletta Sidiropoulou and her colleagues in the Sea Turtle Protection Society of [Greece](#) (Archelon) are huddled together on Marathonisi beach, carefully digging in the sand. Eventually they find what they're looking for: a turtle nest, containing upwards of 100 eggs. "It's really exciting," says Sidiropoulou.

Endangered loggerhead sea turtles, or *Caretta Caretta*, make their main nesting spot on the Mediterranean island of Zakynthos – one of the most visited islands in Greece, with roughly 1 million yearly visitors. Mass tourism has [long threatened the loggerheads](#): tourists frequently break rules designed to keep them away from nests. But new research suggests the Covid-19 pandemic has allowed these turtles to come up for air. **Read more at [The Guardian](#).**

MORE GOOD NEWS

Billie Spins Yarn from Textile Wastes with Neither Water nor Chemicals in Novetex's Bid to Cut Emissions and Wastes



The Billie "upcycling" system at work at Novetex Textiles' factory at the Tai Po Industrial Estate in Hong Kong. Credit:

Novetex Textiles

When Ronna Chao returned to her family's yarn spinning business in 2010 after stints at Goldman Sachs and Tommy Hilfiger, Hong Kong was spewing out about 234 tonnes of textile waste every day, most of them either going into landfills or being incinerated.

Any recycling then involved water and hazardous chemicals, which would end up polluting the waterways. Chao turned to the collective wisdom at Novetex Textiles, one of the world's largest single-site yarn spinners founded half a century earlier by her grandfather Chao (Billie) Kuang-piu. She wanted to create a clean recycling process that could produce high-value yarn. The result was the Billie system, a patented [upcycling](#) process that can break down textile waste into slivers for blending with fresh threads before they are spun into yarn for reuse, all done without using water or hazardous chemicals.

- Although cotton grows on 2.4% of the world's cropland, it accounts for 22.5% of insecticide use and 10% of pesticides, McKinsey said
- An estimated 2,700 litres of water is needed to produce a single cotton T-shirt, enough to sustain a person for 900 days, according to the WWF's calculation.

Read more at [SouthChinaMorningPost](#)

OPINION

The World Needs Better Climate Pledges



Credit: © 2020 J. Foley

Governments and businesses are looking to lead on climate change, but too many of their commitments are built on flawed “net zero” frameworks and problematic “carbon offsets.” Authentic climate leadership requires more—a transparent and meaningful “Emissions 360” pledge that is focused on bringing real emissions to zero, helping others do the same, and equitably addressing historic climate pollution.

The world’s conversations about climate change have fundamentally shifted during the last few years. We have moved beyond old debates around whether climate change is happening (hint: it is) to more constructive discussions about addressing it. That’s excellent news, even if we spent decades getting here.

In the sudden rush to address climate change—or at least *look* like we are—we have seen many companies, industry groups and countries stake out leadership positions. Many of them have made so-called “net zero” climate pledges, complete with fancy logos and bold-sounding names. **Read more at [Draw Down](#).**

SPOTLIGHT ON POLICY

Fossil Fuel Companies Are Quietly Scoring Big Money for Their Preferred Climate Solution: Carbon Capture and Storage



Equipment installed as part of the Petra Nova Carbon Capture Project stands at the NRG Energy Inc. WA Parish generating station in Thompsons, Texas, on Thursday, Feb. 16, 2017. The project has since ceased operations indefinitely. Credit: Luke Sharrett/Bloomberg via Getty Images

Over the last year, energy companies, electrical utilities and other industrial sectors have been quietly pushing through a suite of policies to support a technology that stands to yield tens of billions of dollars for corporate polluters, but may do little to reduce greenhouse gas emissions.

These policies have fast-tracked environmental reviews and allocated billions in federal funding for research and development of carbon capture and storage, or CCS, technologies that pull carbon dioxide out of smokestacks or directly from the air before storing it underground. Just a single bill—the bipartisan infrastructure legislation that passed the Senate last week and is now headed to the House of Representatives—[includes more than \\$12 billion in direct support](#) for carbon capture, and could unlock billions more through other programs, according to the recent drafts. Read more at [Inside Climate News](#).

SPOTLIGHT ON INDIGENOUS WELLNESS

‘Invest in Healing’: Chief RoseAnne Archibald on What the Next Government Must Do



RoseAnne Archibald was elected national chief of the Assembly of First Nations in July. Credit: Chris Young/CP

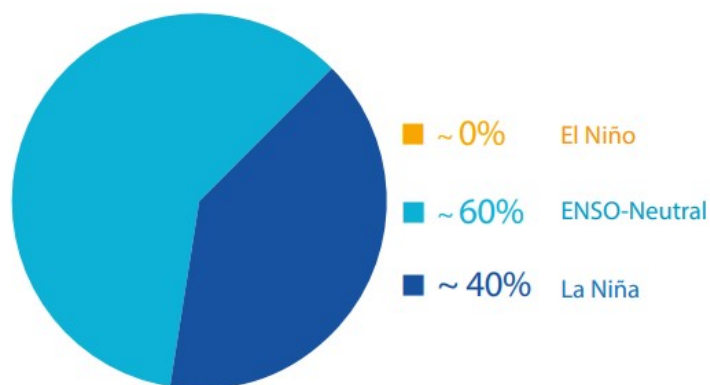
Last month, the Assembly of First Nations (AFN), a political body representing First Nations across Canada, released its election priorities in a report called the [Healing Path Forward](#). It identifies a number of commitments the AFN would like to see federal parties make: to addressing the collective trauma surrounding the identification of unmarked burial sites at former residential schools, to investing in First Nations economies, to recognizing Indigenous rights, and more.

TVO.org speaks with National Chief RoseAnne Archibald about moving away from the Indian Act, giving land back to First Nations, and what the AFN would like to see from the next federal government. **Read and Watch more at [TV Ontario](#).**

Quote Of The Week



ESTIMATED ENSO PROBABILITIES FOR SEPTEMBER-NOVEMBER 2021



- The tropical Pacific has been ENSO-neutral since May 2021
- Model predictions and expert opinion indicate a 60% probability for ENSO-neutral conditions to continue over September-November 2021
- A probability of re-emergence of La Niña conditions is about 40% and that of El Niño is near-zero

Information on ENSO should be combined with other regionally and locally relevant factors in order to anticipate its effects on regional climates

For the latest update, visit: <https://public.wmo.int/en/our-mandate/climate/el-niñola-niña-update>

In a world of worsening effects of human-induced climate change, which has increased global temperatures and worsened extreme weather events.

“We have seen this with devastating and tragic effect in the past few months in nearly all regions of the world. Climate change is increasing the severity and frequency of disasters.”

Petteri Taalas, World Meteorological Organization Secretary-General

[Weak La Niña may re-emerge, WMO says. Here's what that might mean for Canada](#)

Read and See more at The Weather Network

Upcoming Events

- September 27 - October 1, 2021: [12th European Congress On Tropical Medicine And International Health: Global Challenges In Health, Migration And Equity](#)
- Sept. 29 – Oct. 1, 2021: [Net Zero Festival by Business Green \(London and Online\)](#)
- October 6-8, 2021: [Public Health 2021: Annual conference of the Canadian Public Health Association](#)
- October 31 - November 12, 2021: [2020/2021 UN Climate Change Conference](#) UNFCCC COP26 - Postponed in 2020 and now soon to be held (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.
- 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

FYI#1 SPOTLIGHT ON MEDIA

Thousands Call for Fossil Fuel Non-Proliferation Treaty as UN Meeting Kicks Off



More than 2,000 academics from around the world signed an [open letter](#) calling for a Fossil Fuel Non-Proliferation Treaty, as the [United Nations'](#) 76th General Assembly kicks off its annual meeting. Mobilizing meaningful action on climate change is one of the UN's top priorities this year, and it was just last month that UN Secretary General António Guterres said the Intergovernmental Panel on Climate Change's [latest report](#) "must sound a death knell for coal and fossil fuels before they destroy our planet. "The hope many academics, researchers and activists have is for an international agreement to prevent the expansion of fossil fuels, to manage a fair global phase-out, and to guide a just transition could be used to preserve a planet that can support human life.

Also Denmark and Costa Rica [announced](#) new details of the Beyond Oil and Gas Alliance (BOGA), ahead of an expected official launch at [COP26](#) in November. "The new bar of leadership that BOGA is creating [puts to shame countries such as Canada](#), Norway, the U.K., and the U.S. that continue to drill for more oil and gas despite having the means to enable a just transition away from fossil fuels," said Oil Change International global policy campaign manager Romain Ioualalen in a statement. "These countries should be leading the pack away from fossil fuels. The time for excuses and greenwash is over."

[Read more at National Observer](#)

FYI #2

Explosive Mix: Big International Players are Moving in to Exploit Mozambique's Vast Natural Gas Resources – But to Whose Benefit?



What remains: inhabitants of Aldeia da Paz, a village in Cabo Delgado, after a 2019 attack by Islamist militants. Credit: MARCO LONGARI/AFP/GETTY

Mozambique, among the poorest of countries, sits atop the world's ninth-largest natural gas reserves. Discovered nearly a decade ago off the coast of the northern province of Cabo Delgado, these reserves have been a honeypot, attracting foreign companies and investors, and hold the tantalizing possibility of generating enough income to push the southern African nation into the ranks of the middle-income countries.

But there's a big catch. Environmental campaigners say gas development will do more harm than good, contributing to climate change and uprooting villagers in an area beset by under-reported violent conflict due to Islamist militancy. As extraction

projects accelerate in Mozambique, questions about who actually profits from resource wealth also intensify.

This summer, the French energy giant Total reached its final investment decision for the \$20 billion Mozambique Liquefied Natural Gas (LNG) project, which will encompass both offshore drilling and onshore construction projects. The deal is the largest of its kind in Africa to date, with the money involved topping Mozambique's annual GDP. And it's just one of three gas projects in Cabo Delgado.

[Read more at the Newint](#)

FYI #3

Wildfire Smoke: An Emerging Threat to West Coast Wines



The Glass Fire burns near the Jericho Canyon Vineyard and Winery about a mile out of downtown Calistoga, California. Credit: Jane Tyska/Digital First Media/East Bay Times via Getty Images

In August 2013, Ron and Cheryl Harms were eagerly anticipating the third harvest from their boutique vineyard in the Sierra Foothills when the massive, fast-moving Rim Fire zigzagged perilously close to their property. The couple's four-acre Yosemite Cellars vineyard sits on a rocky hillside surrounded by forest about 20 miles west of Yosemite National Park. From their perch high above the valley, the Harms watched helplessly as planes released flame retardant around the gathering firestorm and thick clouds of smoke settled on their ripening grapes.

The Rim Fire, at the time California's third-largest wildfire, torched more than a quarter of a million acres of Sierra forestland, including nearly 80,000 acres in Yosemite. The inferno spared the Harms' home and vineyard. But it left the couple grappling with a grape affliction that has emerged as the West Coast wine industry's latest scourge: smoke taint.

"Our grapes were very smoky," said Cheryl Harms. When they had juice from their grapes analyzed, she said, "it was smokier than anything they'd ever tested." And there was little they could do to remove the taint.

Smoke taint can ruin a wine as surely as a bad cork. And as climate change increases the likelihood of drought-fueled conflagrations in fire-prone California, wildfire's effects on grape quality have emerged as one of the biggest threats to the state's \$43 billion wine industry.

"The pandemic was an enormous challenge," said John Aguirre, president of the California Association of Winegrape Growers. "But now, without question, I think the threat of wildfire in many different ways is the greatest challenge of the day for the industry."

Rising global temperatures have made droughts and heatwaves more common and intense, fuelling ever more devastating wildfires. Last year, thousands of drought-primed fires scorched more than 4 million acres in California—close to 40 percent of the national total—making 2020 the state's largest wildfire season on record.

Read More at Inside Climate News

FYI #4

Coffee May Reduce Risk of Death from Stroke and Heart Disease



Credit: Arada Coffee (Ethiopia)

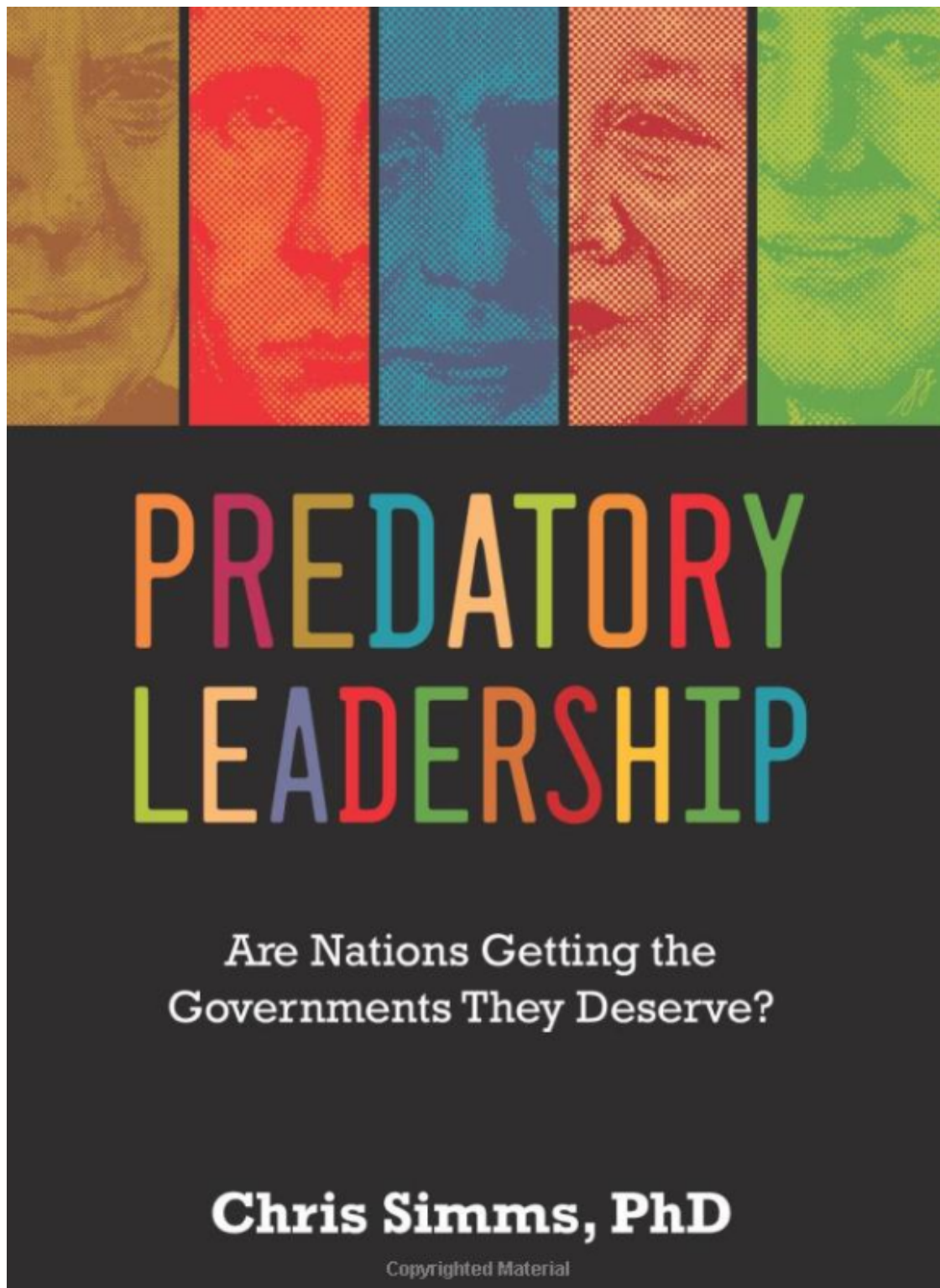
Drinking up to three cups of coffee a day may protect your heart, a new study finds.

Among people with no diagnosis of heart disease, regular coffee consumption of 0.5 to 3 cups of coffee a day was associated with a decreased risk of death from heart disease, stroke and early death from any cause when compared to non-coffee drinkers. The study, presented at the annual meeting of the European Society of Cardiology, examined the coffee drinking behaviour of over 468,000 people who participate in the UK Biobank Study, which houses in-depth genetic and health information on more than a half a million Brits.

[Read more at CNN](#)

FYI #5: END OF SEPTEMBER READING

"Predatory Leadership: Are Nations Getting the Governments They Deserve?" By Chris Simms



Credit: Book Cover

Based on decades of field research, Dr. Chris Simms assesses the quality of national leadership across the globe and describes how governments treat the powerless and those without voice and influence.

A generation ago, Canada was perceived to be an exemplary global citizen by the rest of the world: it took the lead on a host of international issues, including the

Convention of Child Rights, freedom of information, acid rain, world peacekeeping, sanctions against South Africa's apartheid regime, and humanitarian and development assistance.

Then, over a period of 10 years, beginning in 2006, Canada's reputation as a global citizen went into steep decline under then Prime Minister Stephen Harper. Its political leadership seemed to be a forerunner of the Trump administration in the U.S. Scientists were muzzled, environment protections were cut, the rights of BIPOC populations were ignored and democratic institutions undermined. Internationally, multilateralism was considered a "weak-nation" policy and was replaced by a strategy of "sovereign self-interest".

[Read More at Amazon](#)

FYI#6: SPOTLIGHT ON EDUCATION

Young Toronto Green Candidate Thinks Politicians Need a Science Lesson



Credit: Jasmine Chong

In the unlikely event Phil De Luna was elected in this week's federal election, he says his first legislative action would be to push for all MPs to receive scientific literacy training.

The 29-year-old Green Party candidate for Toronto-St. Paul's says a dearth of understanding about how science works among politicians is holding Canada back when it could be used to create policy solutions.

"If we are able to have that training, we'd be able to tackle a broad range of problems — not just the climate but in social inequality, in health care, in national security, in innovation policy in general — in a more cohesive and coherent way," De Luna said in a phone interview with *Canada's National Observer*.

The young candidate, who took a leave of absence from a National Research Council role in April in order to run, says much of the technology needed to sharply curtail our contributions to global warming are within our grasp but hindered by politics.

[Read More at National Observer](#)

ENDSHOTS

FRUITS OF THE EARTH; HARVEST BOUNTY

NIAGARA-ON-THE-LAKE, ONTARIO

September 19, 2021

Amid Latest World and Canadian COVID-19 Stats & Charts



COVID-19 CORONAVIRUS PANDEMIC

Last updated: September 23, 2021, 18:34 GMT

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

Coronavirus Cases:

231,127,198

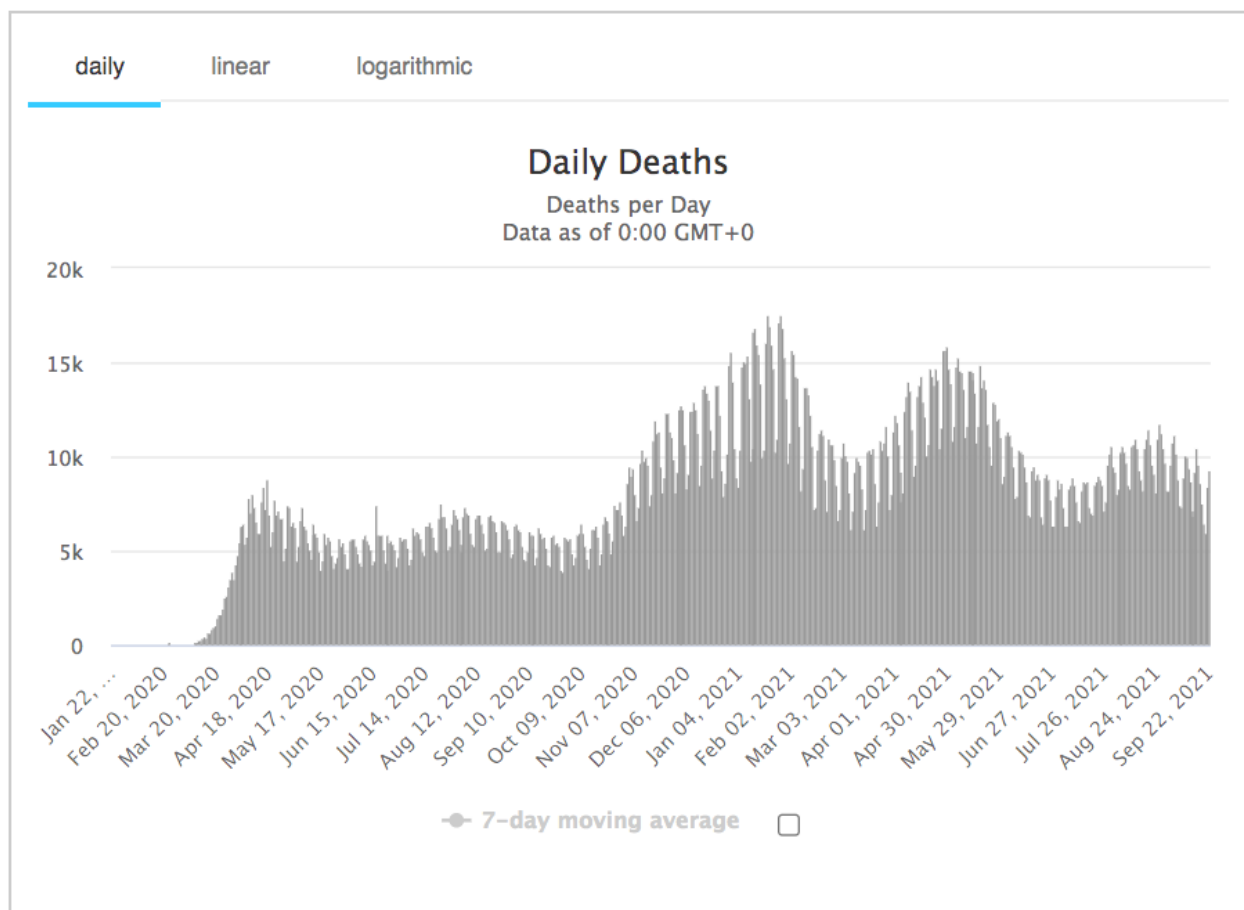
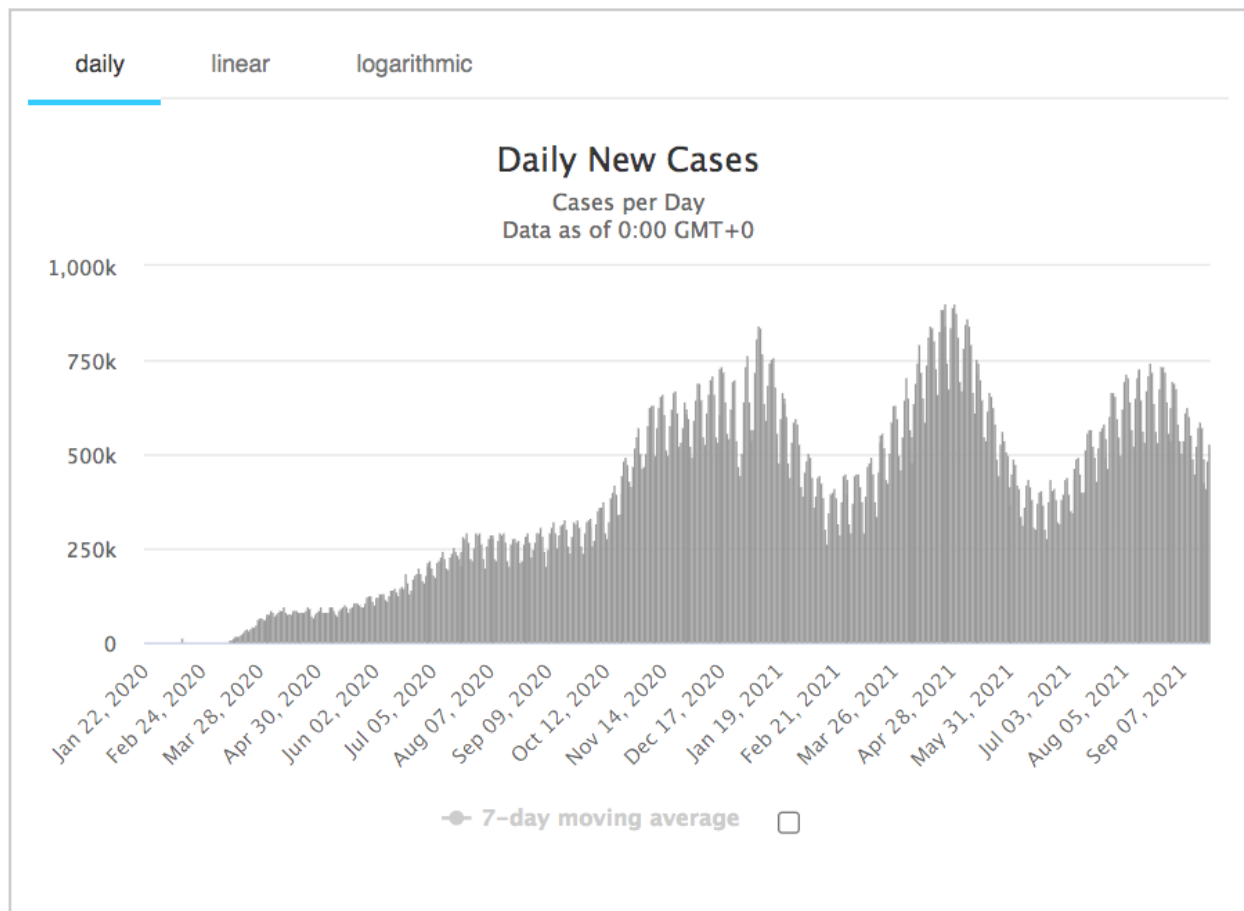
[view by country](#)

Deaths:

4,736,572

Recovered:

207,840,153



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



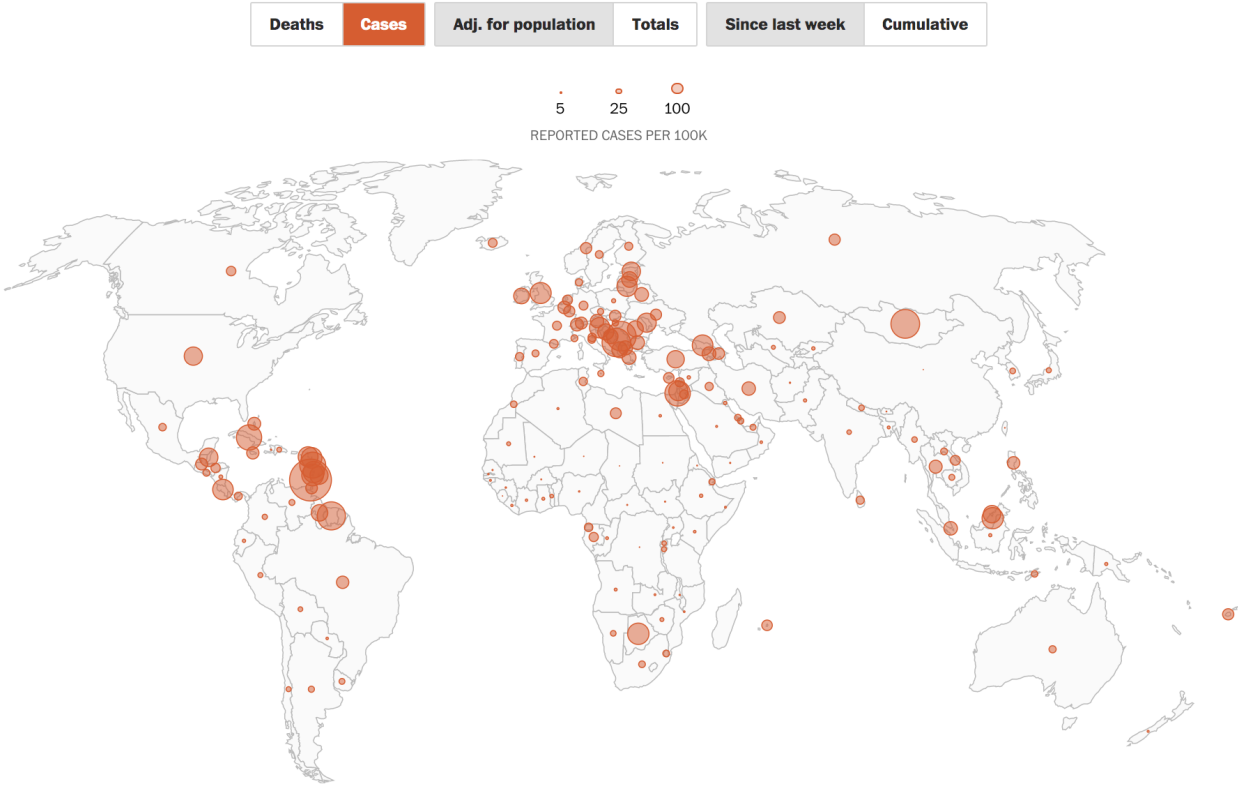
COVID-19 CASES, DEATHS & VACCINATIONS (Sept. 23, 2021) below:
Source:https://www.washingtonpost.com/graphics/2020/world/mapping-spread-new-coronavirus/?itid=sf_coronavirus

More than
4,724,000
people have died from
the coronavirus worldwide

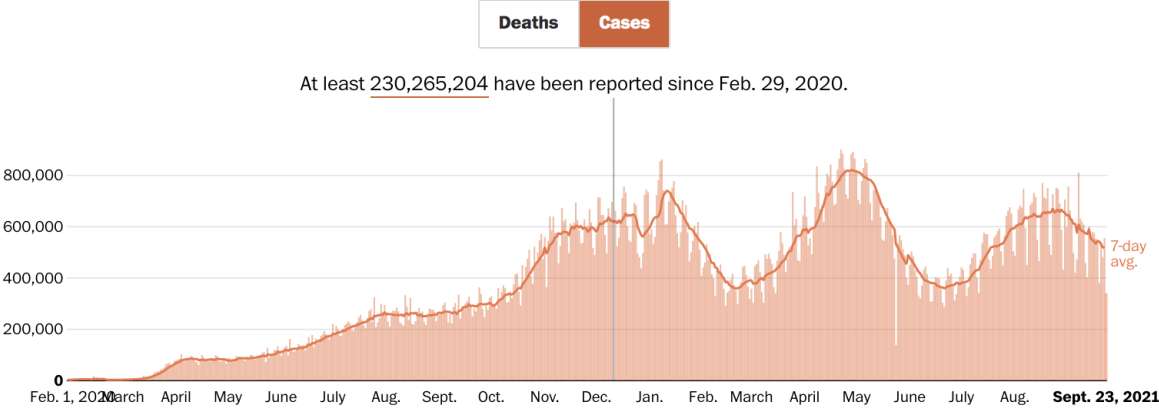
More than **230 million** cases have been reported.



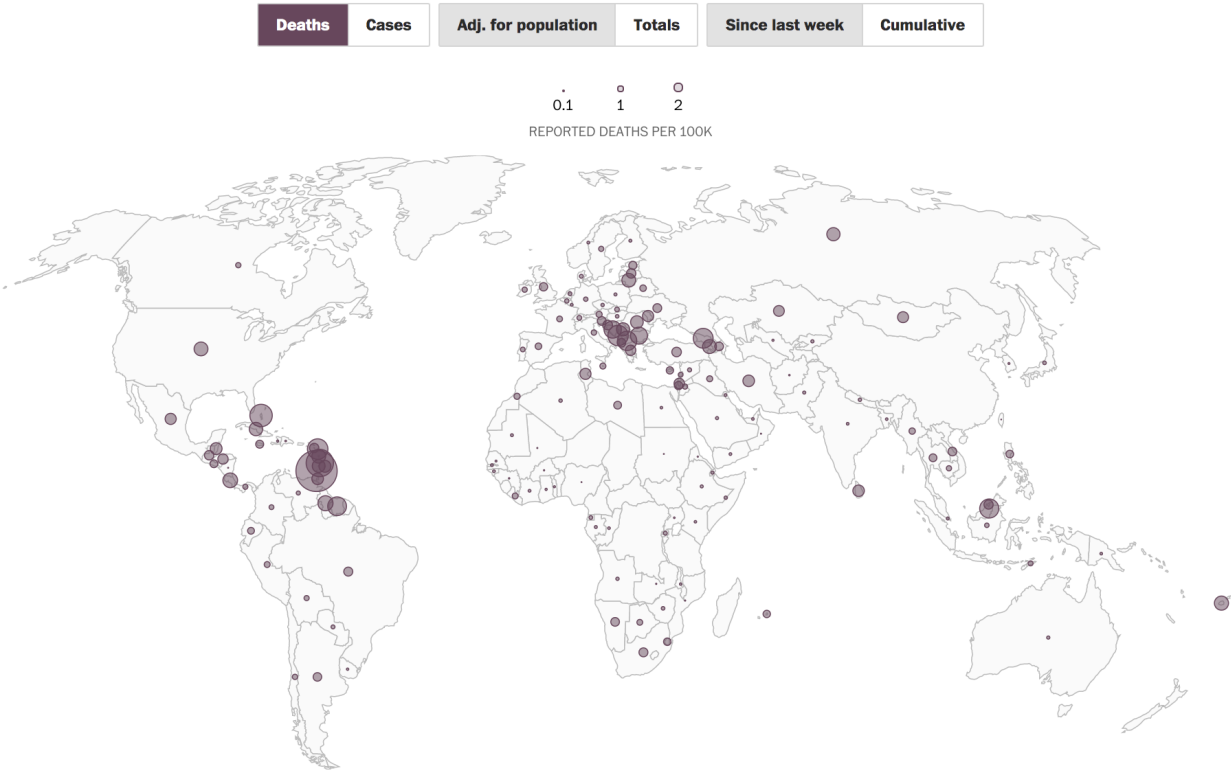
Where the virus is surging



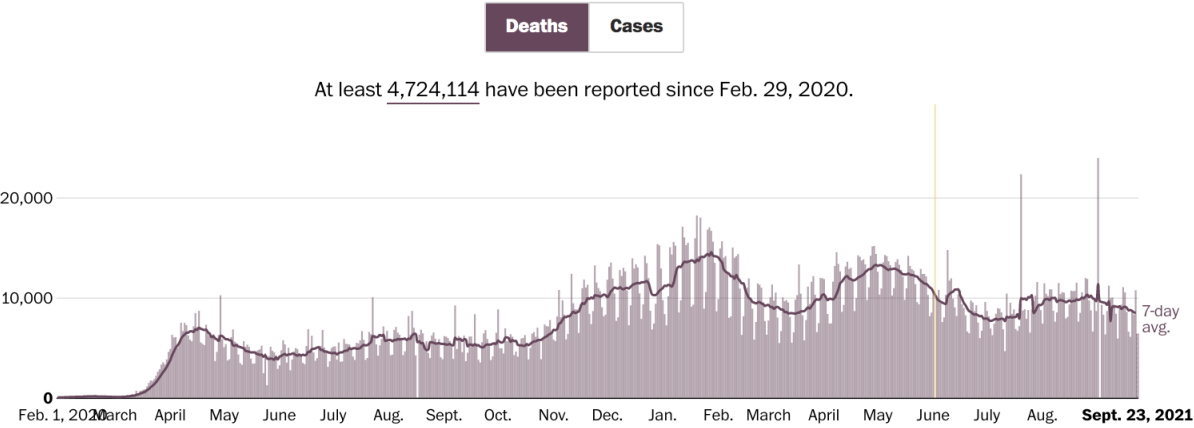
New daily reported cases across the world



Where the virus is surging



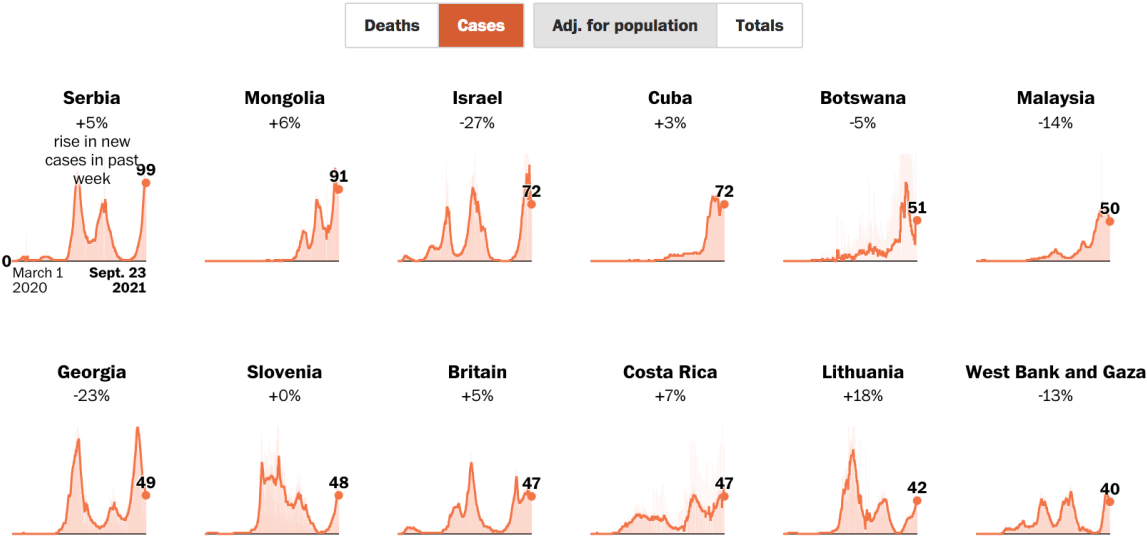
New daily deaths reported across the world





Global hot spots for reported cases per capita

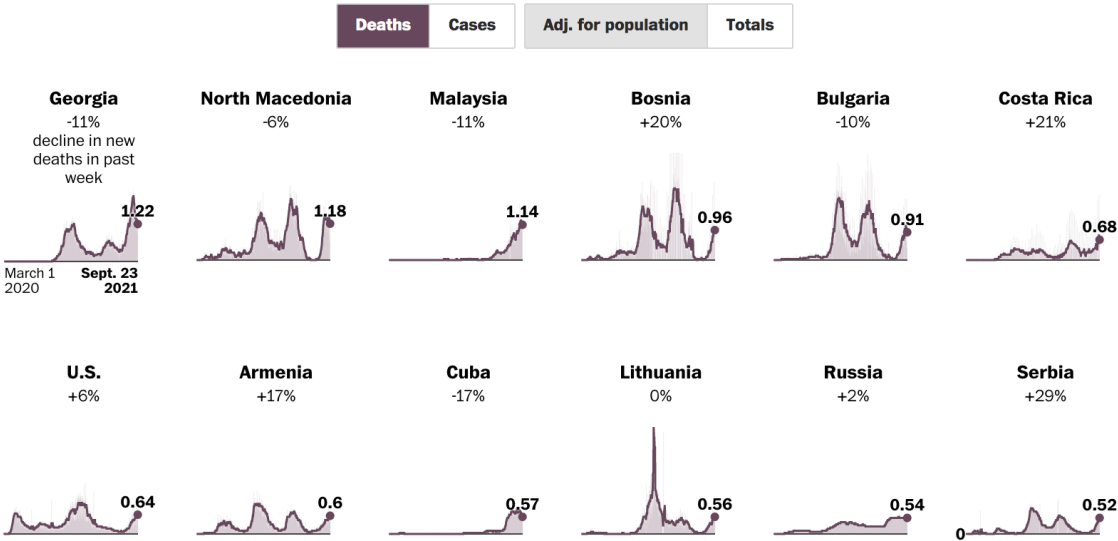
7-day rolling average of daily new reported cases per 100,000 residents



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





Compare countries by new daily reported cases per 100k

Deaths

Cases

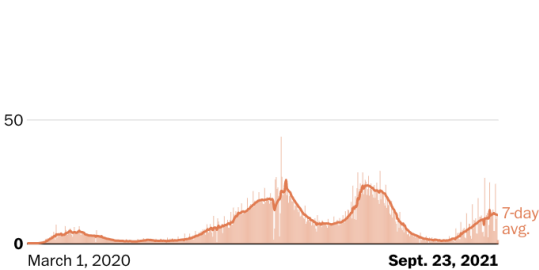
Adj. for population

Totals

Select a country:

Canada

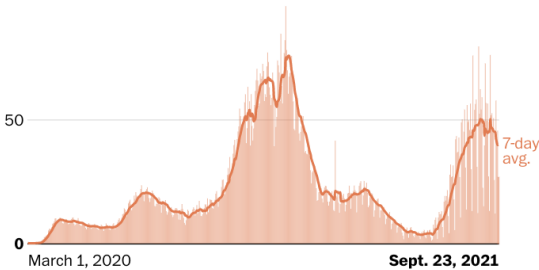
At least 1,598,195 have been reported since Feb. 29, 2020.



Select a country:

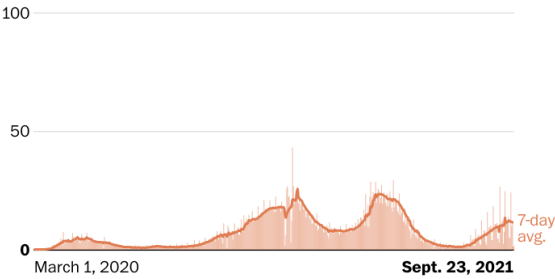
U.S.

At least 42,483,529 have been reported since Feb. 29, 2020.



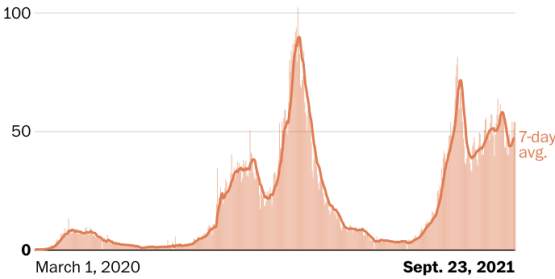
Select a country:
Canada

At least 1,598,195 have been reported since Feb. 29, 2020.



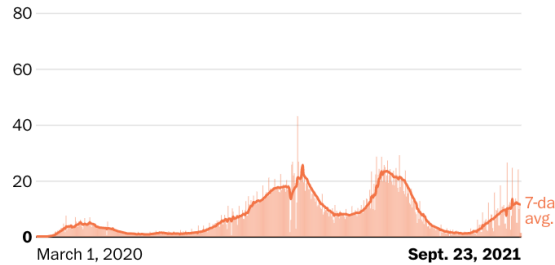
Select a country:
Britain

At least 7,601,522 have been reported since Feb. 29, 2020.



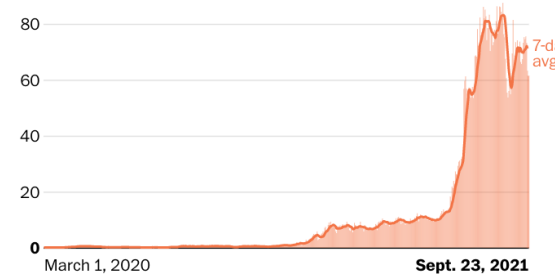
Select a country:
Canada

At least 1,598,195 have been reported since Feb. 29, 2020.



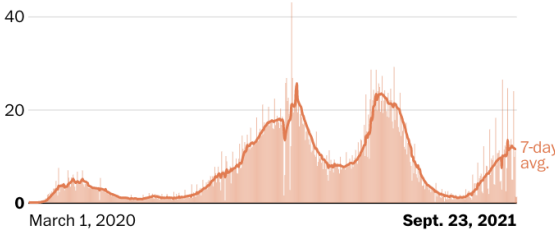
Select a country:
Cuba

At least 832,286 have been reported since Feb. 29, 2020.



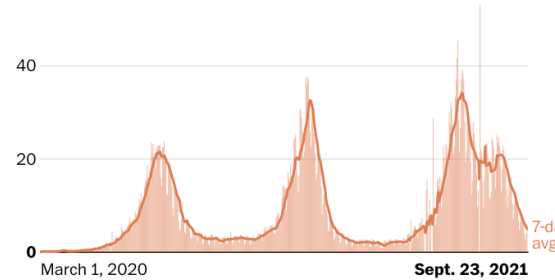
Select a country:
Canada

At least 1,598,195 have been reported since Feb. 29, 2020.



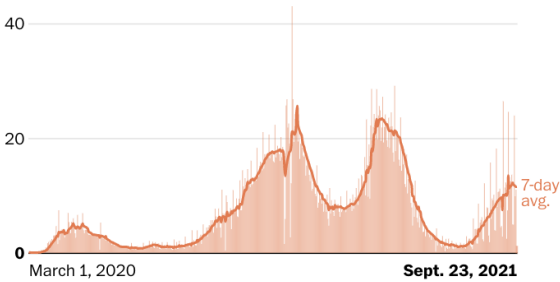
Select a country:
South Africa

At least 2,889,298 have been reported since Feb. 29, 2020.



Select a country:
Canada

At least 1,598,195 have been reported since Feb. 29, 2020.

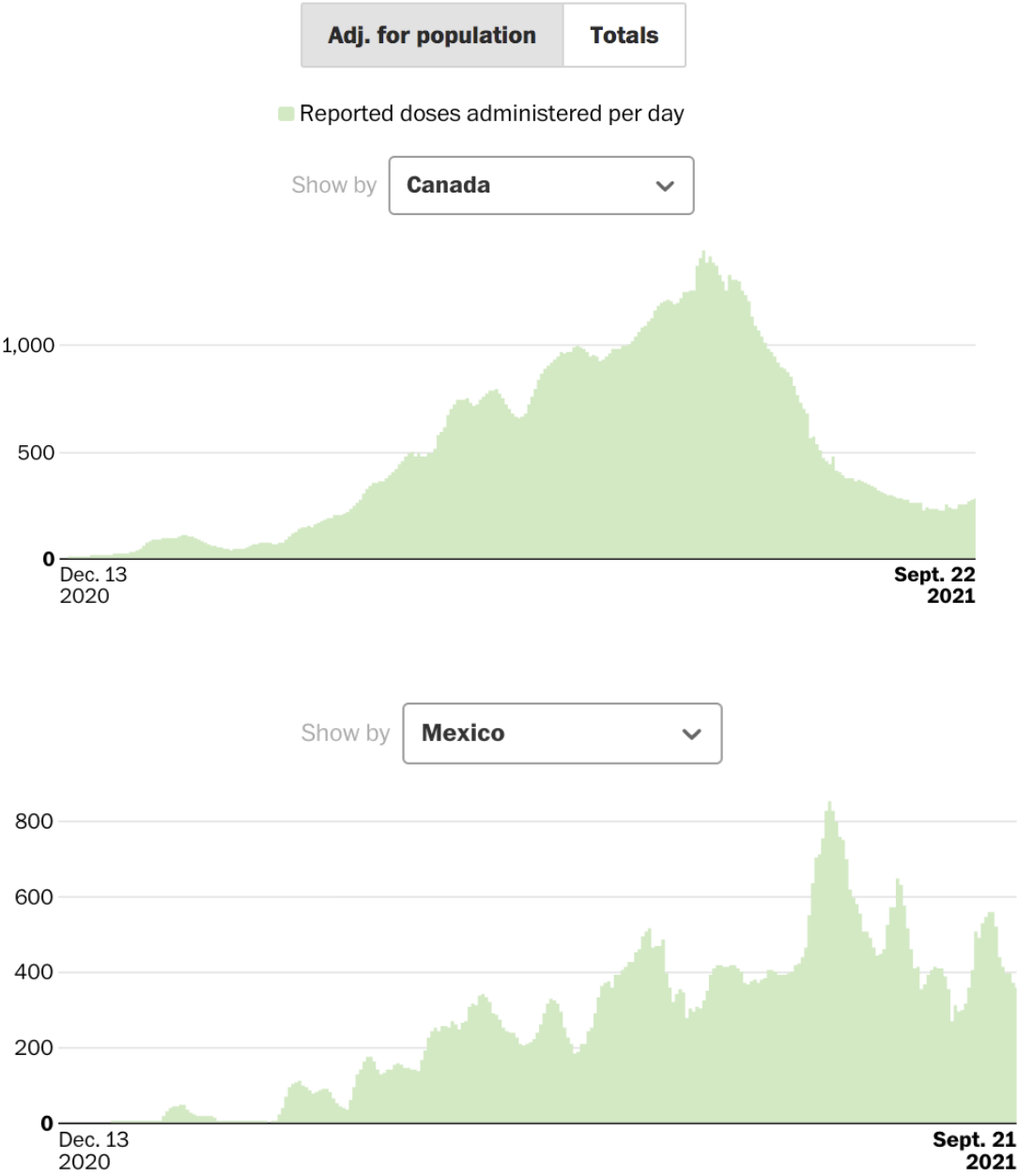


Select a country:
Vietnam

At least 728,435 have been reported since Feb. 29, 2020.

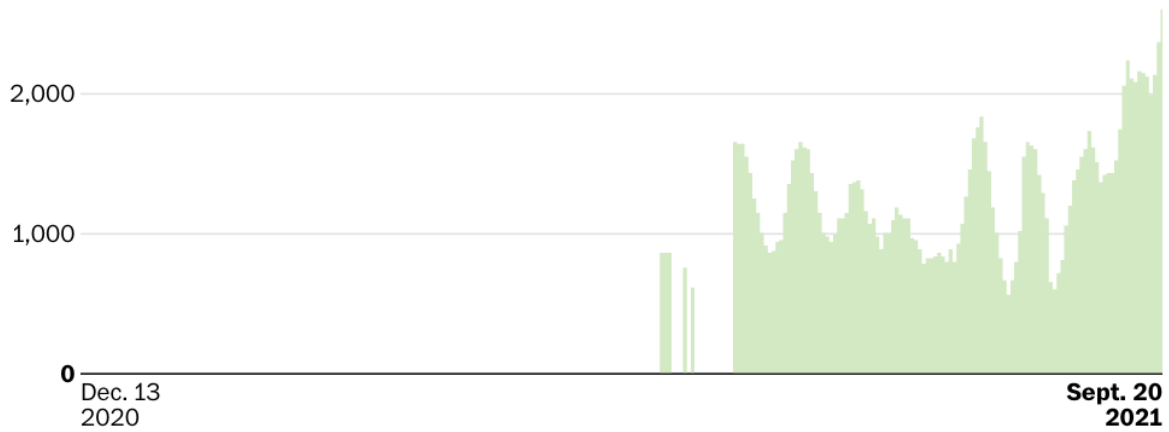


Doses of covid-19 vaccines administered per 100,000 residents



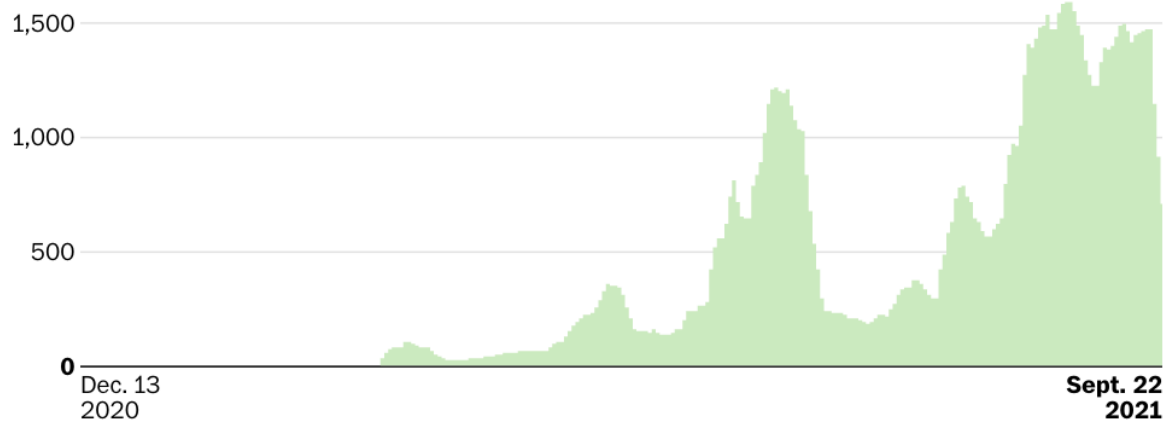
Show by

Cuba



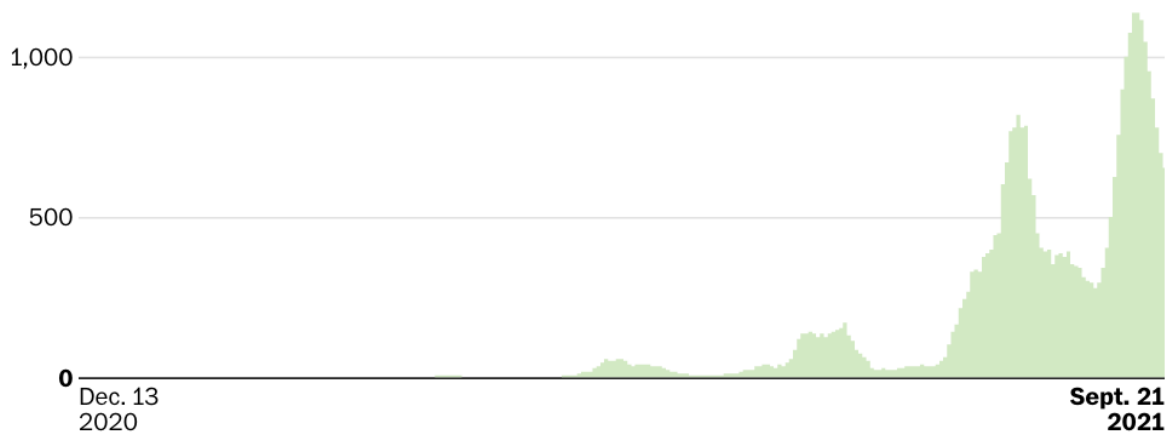
Show by

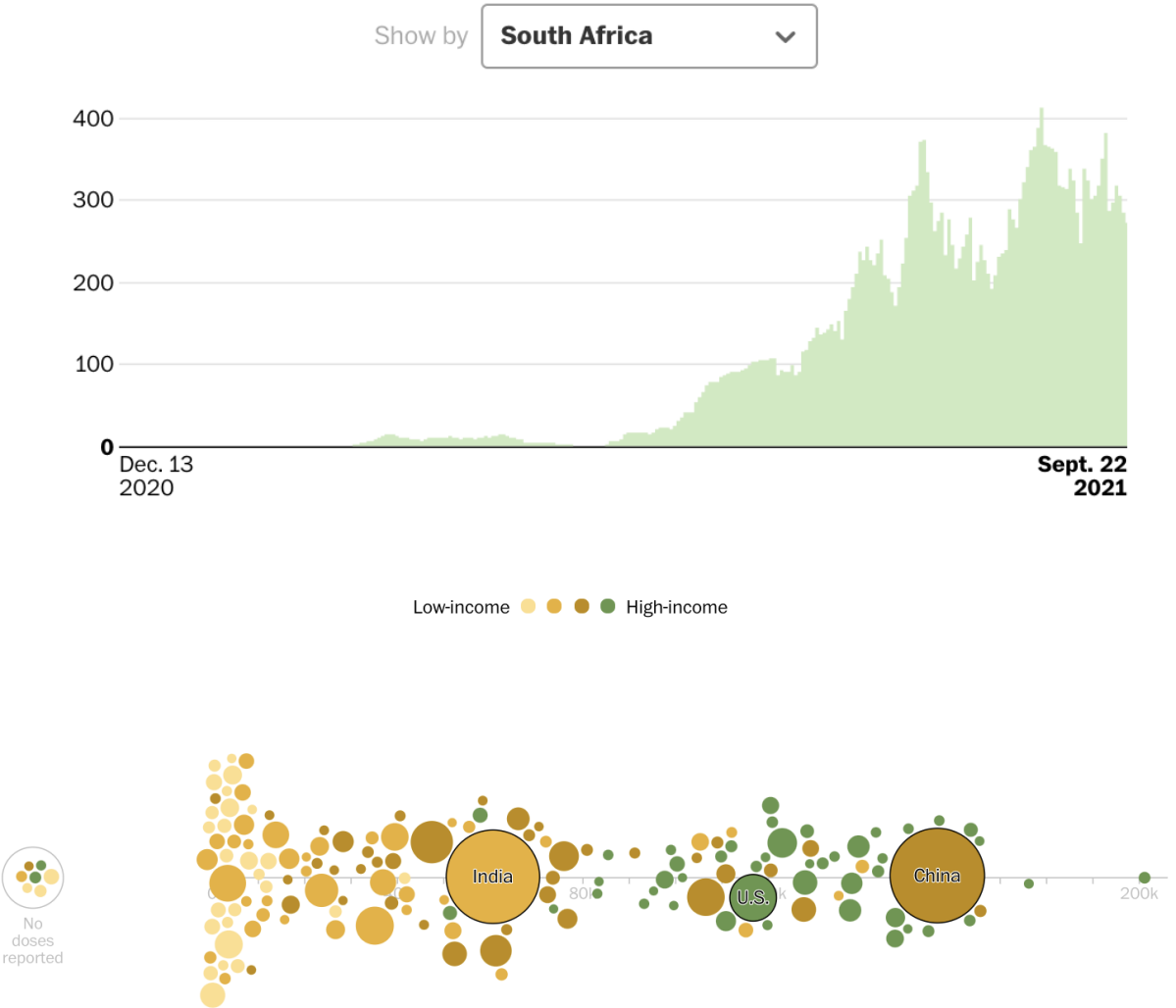
South Korea



Show by

Vietnam







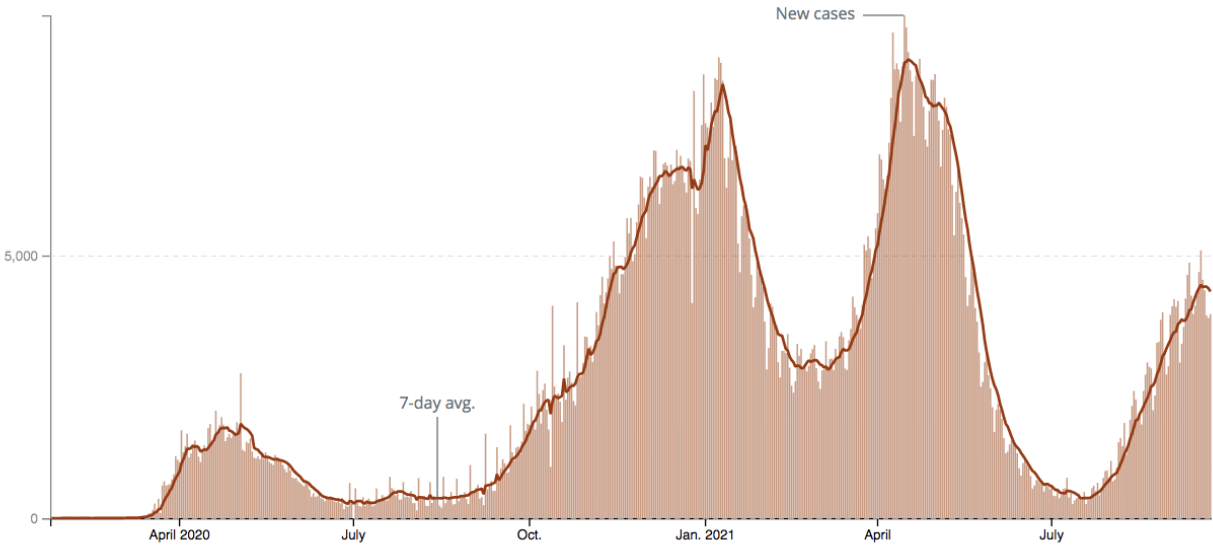
Source of Canadian Data Below (September 22, 2021):
<https://newsinteractives.cbc.ca/coronavirustracker/>

Canada

Cases Deaths Hospitalizations ICU

In Canada 1,589,602 cases have been reported.

90 DAYS ALL TIME

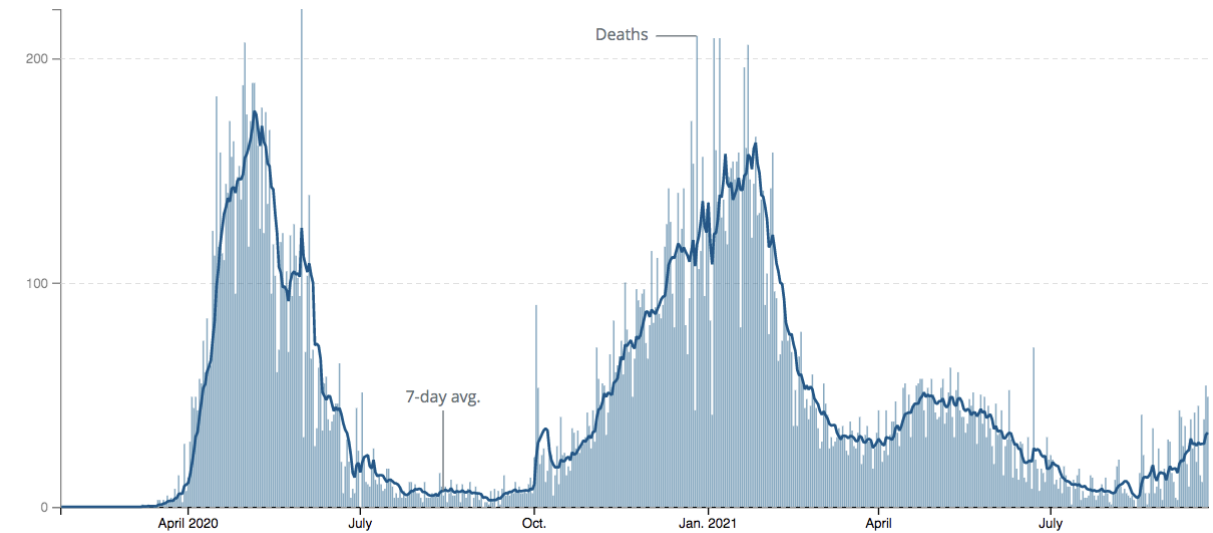


Source: Public Health Agency of Canada.

Cases Deaths Hospitalizations ICU

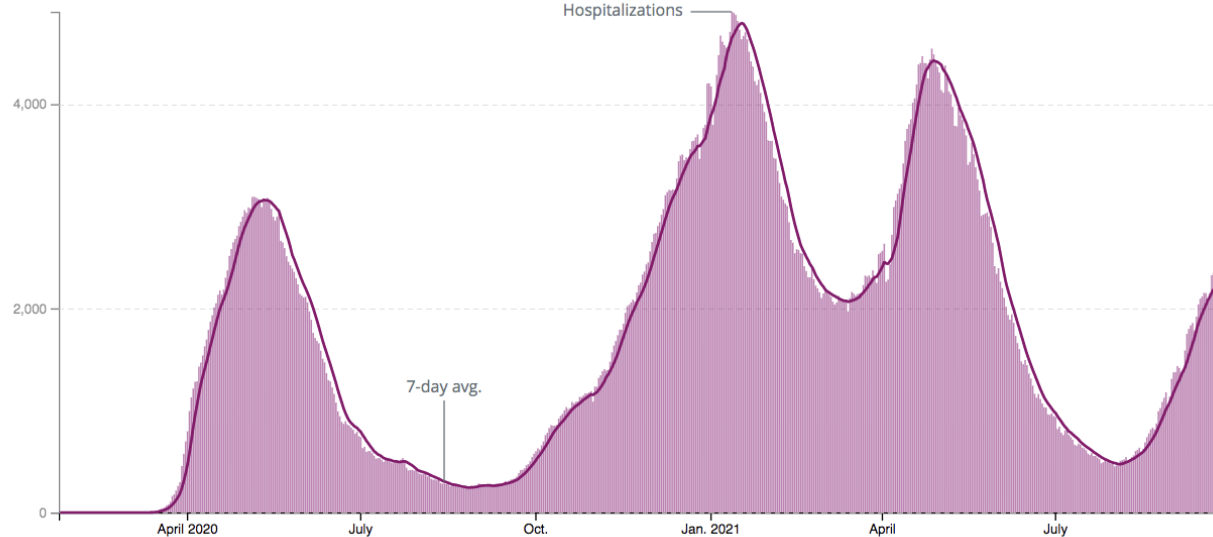
In Canada 27,537 deaths have been reported.

90 DAYS ALL TIME

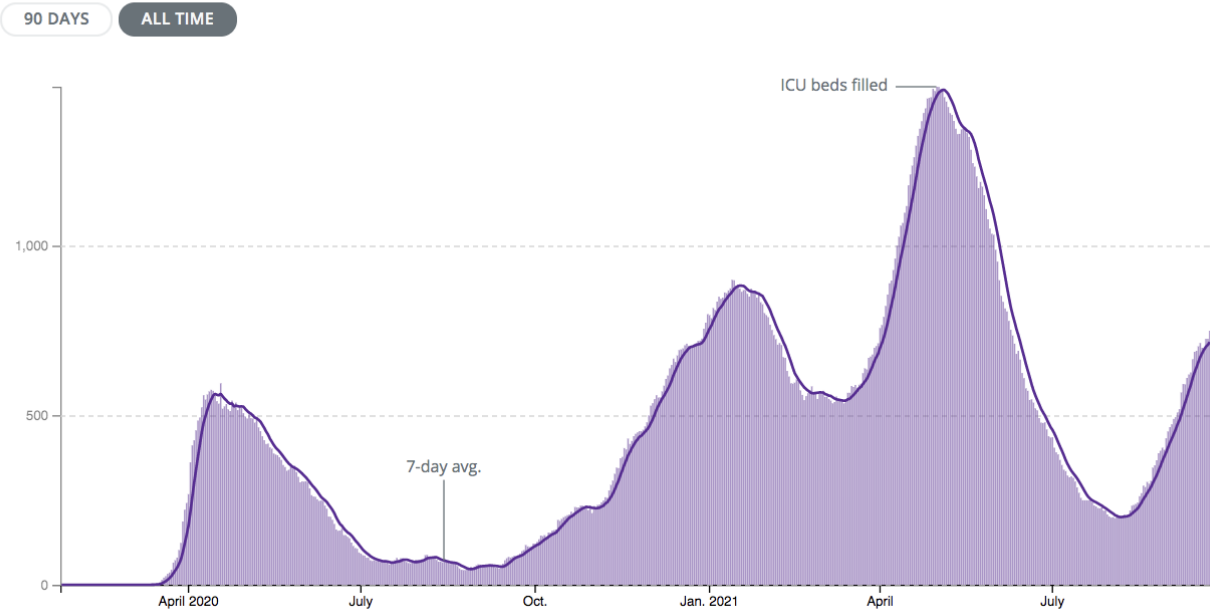


In Canada there are currently 2,343 people hospitalized.

90 DAYS ALL TIME



In Canada there are currently 749 ICU beds filled.



In the past week in Canada...

New cases

—

There were 30,195 new cases, a change of 0 per cent. That's 79.4 cases per 100,000 people.

Active cases

↑

The number of active cases rose 6 per cent.

Deaths

↑

There were 232 deaths, or 0.6 per 100,000 people, an increase of 17 per cent.

Hospitalizations















↑

Hospitalizations rose 11 per cent and ICU beds filled rose 7 per cent.



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	55,311,274	75.55%	69.69% 
Alberta	5,875,001	69.31%	61.90% 
British Columbia	7,739,828	78.49%	71.71% 
Manitoba	1,966,270	73.57%	69.07% 
New Brunswick	1,152,333	77.55%	69.79% 
Newfoundland and Labrador	805,675	81.53%	73.76% 
Nova Scotia	1,493,815	79.18%	73.34% 
Ontario	21,519,784	75.51%	70.34% 
Prince Edward Island	251,706	82.16%	75.38% 
Quebec	12,799,063	77.33%	71.91% 
Saskatchewan	1,527,271	68.40%	61.16% 
Northwest Territories	68,757	78.55%	73.78% 
Nunavut	45,805	61.95%	54.29% 
Yukon	65,966	79.61%	76.73% 

Source: CBC News.



More Than 6.03 Billion Shots Given: Covid-19 Tracker

In the U.S., 387 million doses have been administered

Updated: September 22, 2021, 5:22 PM EDT



Vaccine Tracker

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

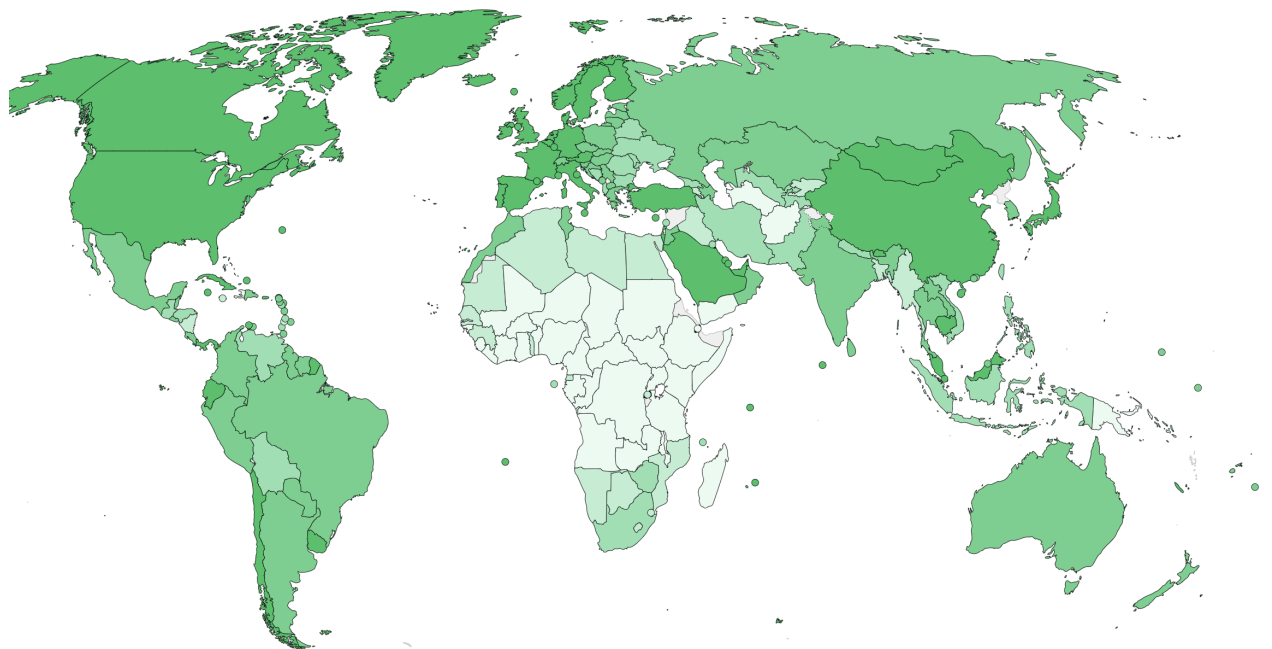
The biggest vaccination campaign in history is underway. More than **6.03 billion doses** have been administered across 184 countries, according to data collected by Bloomberg. The latest rate was roughly **31.5 million doses a day**.

In the U.S., **387 million doses** have been given so far. In the last week, an average of **750,942 doses per day** were administered.

World Map of Vaccinations

More than 6.03 billion doses have been administered—enough to fully vaccinate 39.2% of the global population

no data 5 15 30 60% of population covered



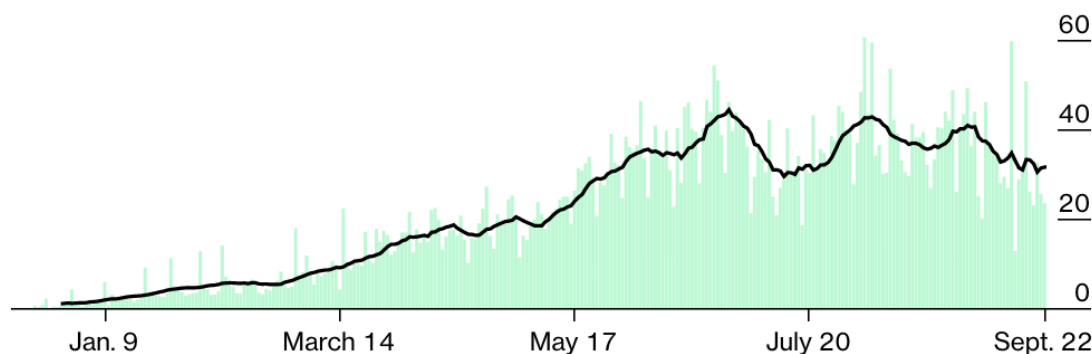
Globally, the latest vaccination rate is **31,515,929 doses** per day, on average. At this pace, it will take another **6 months** to cover **75%** of the population.

Select another location...



/ Average daily rate estimate

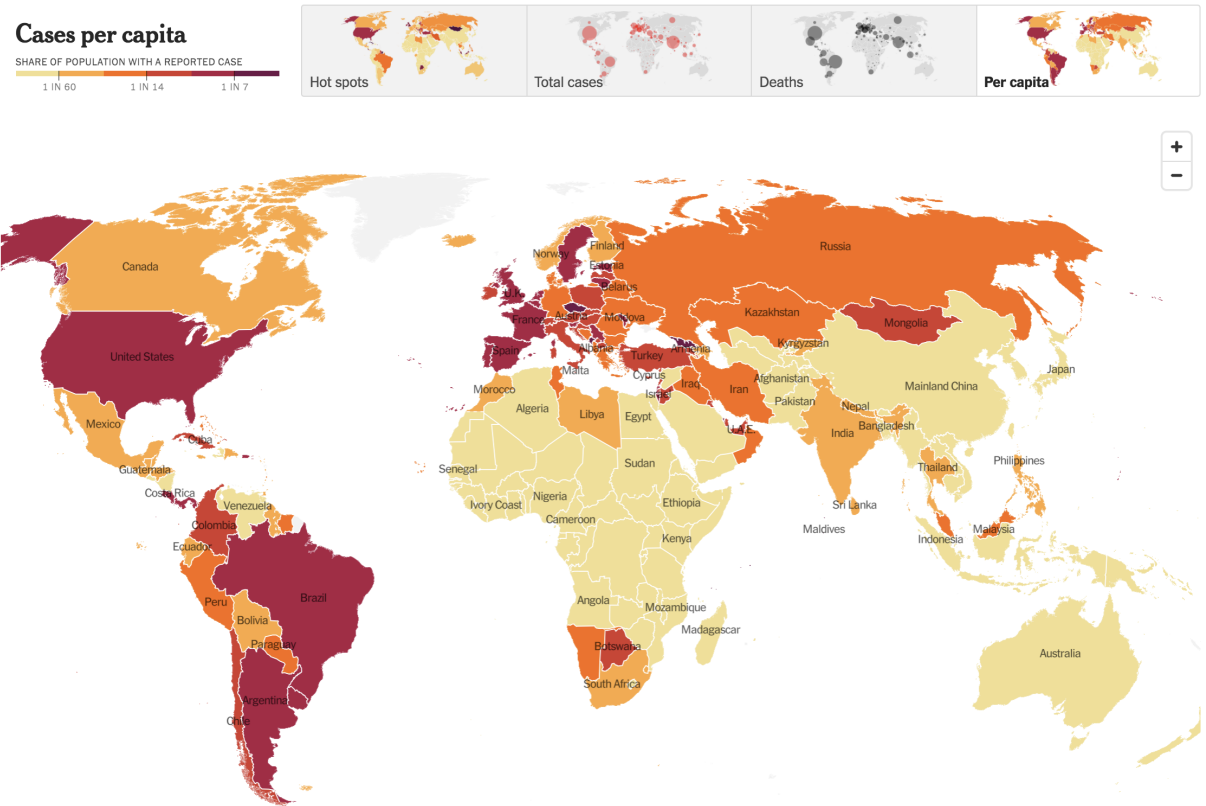
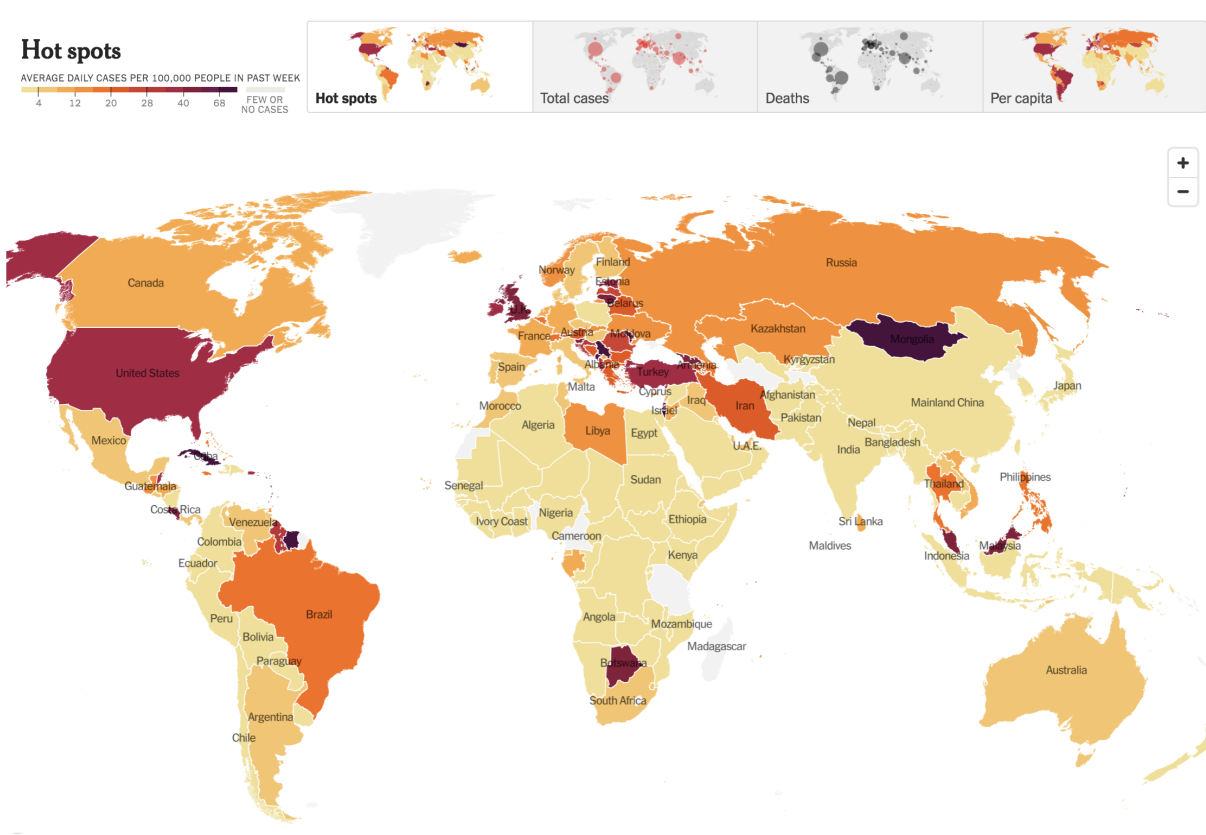
Doses administered: 80M



Enough doses have now been administered to fully vaccinate 39.2% of the global population—but the distribution has been lopsided. Countries and regions with the highest incomes are getting vaccinated more than 20 times faster than those with the lowest.



Source of World Data Below (September 23, 2021):
<https://www.nytimes.com/interactive/2021/world/covid-cases.html>



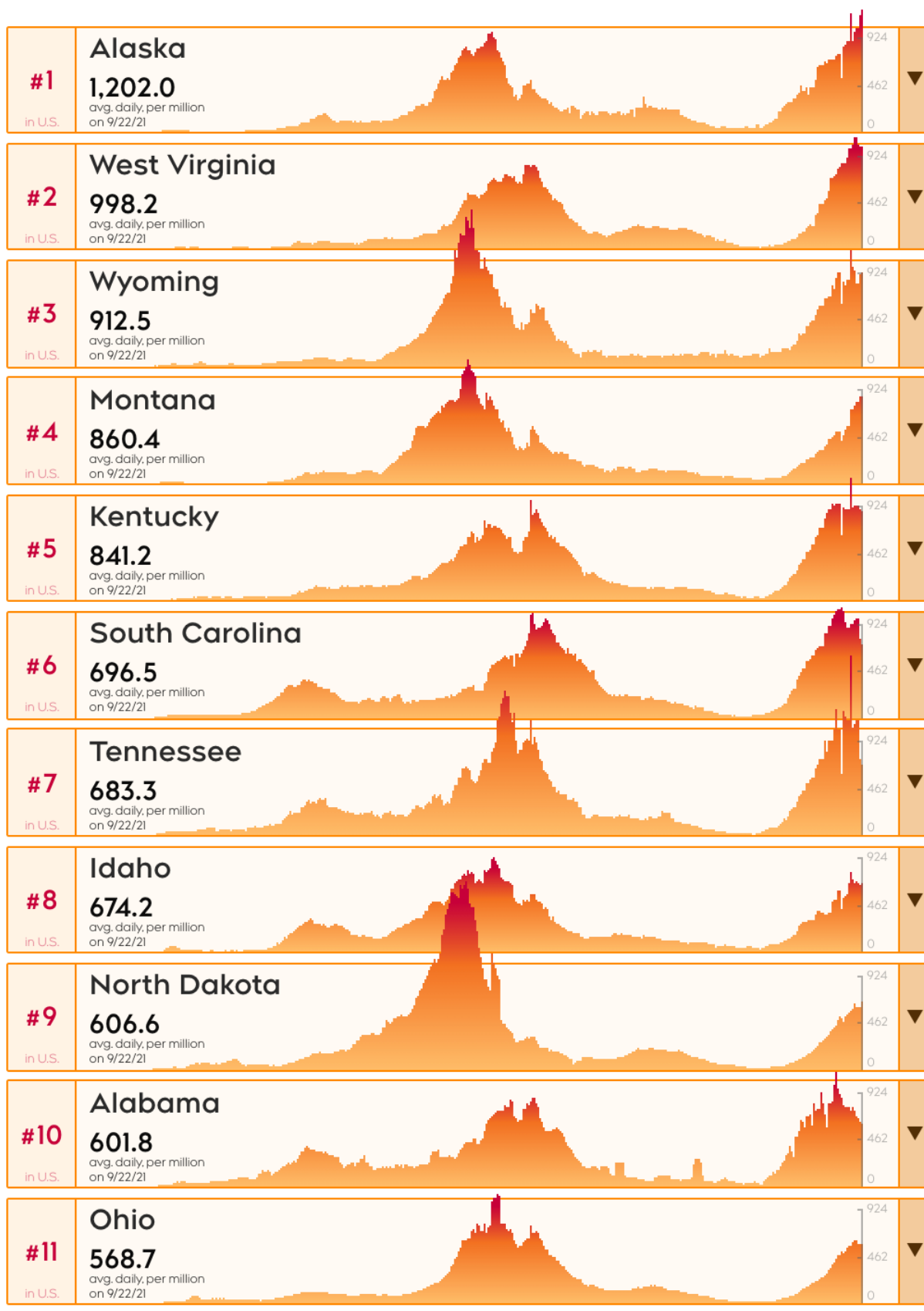


Source of Canadian and U.S. Comparative Data Below (Sept. 23, 2021):
<https://www.ctvnews.ca/health/coronavirus/covid-19-in-the-u-s-how-do-canada-s-provinces-rank-against-american-states-1.5051033>

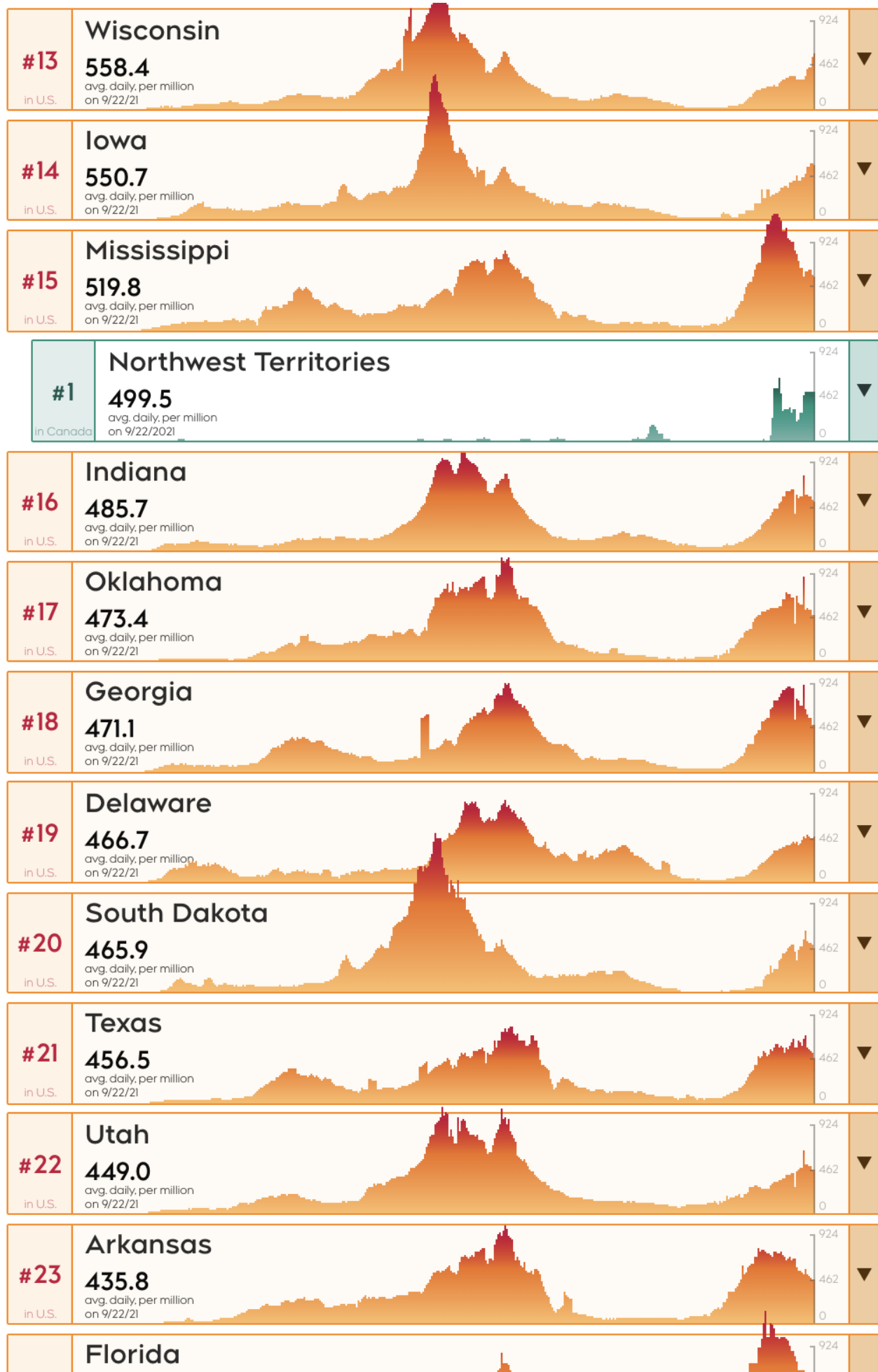
Comparing COVID-19 in states and provinces

Showing 7-day avg. cases, per million

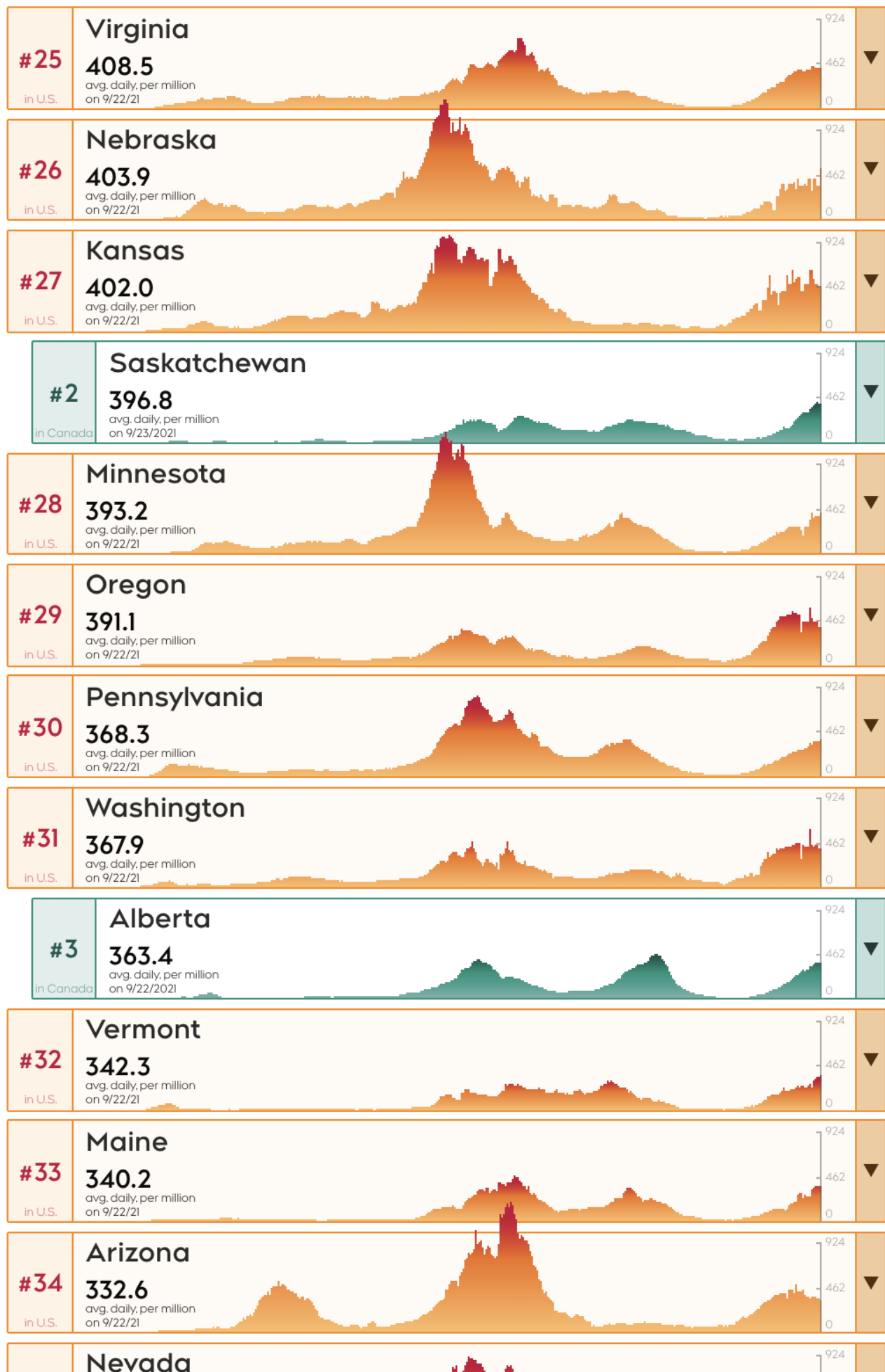
Ranked by highest current cases Scale: all same



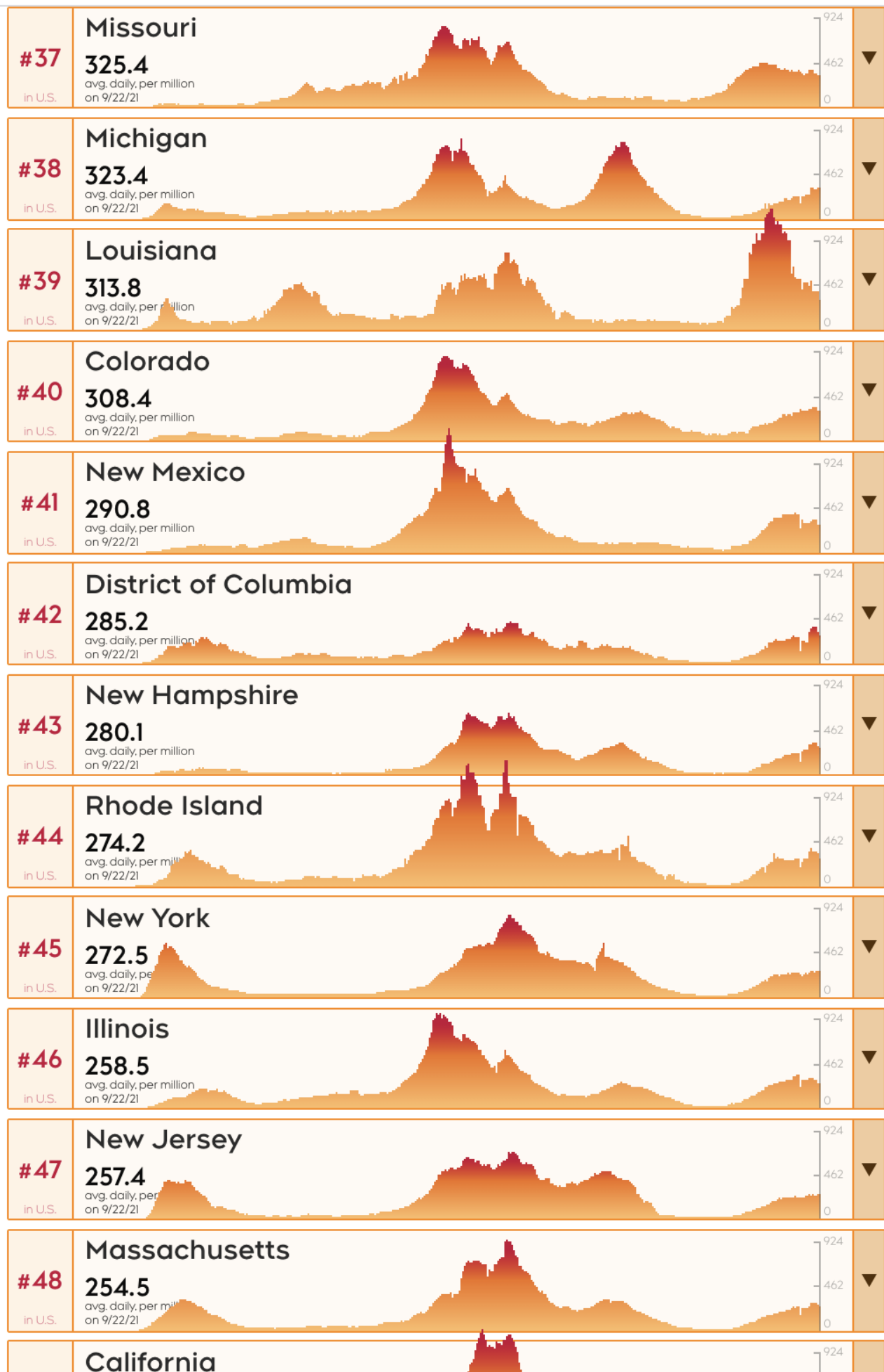


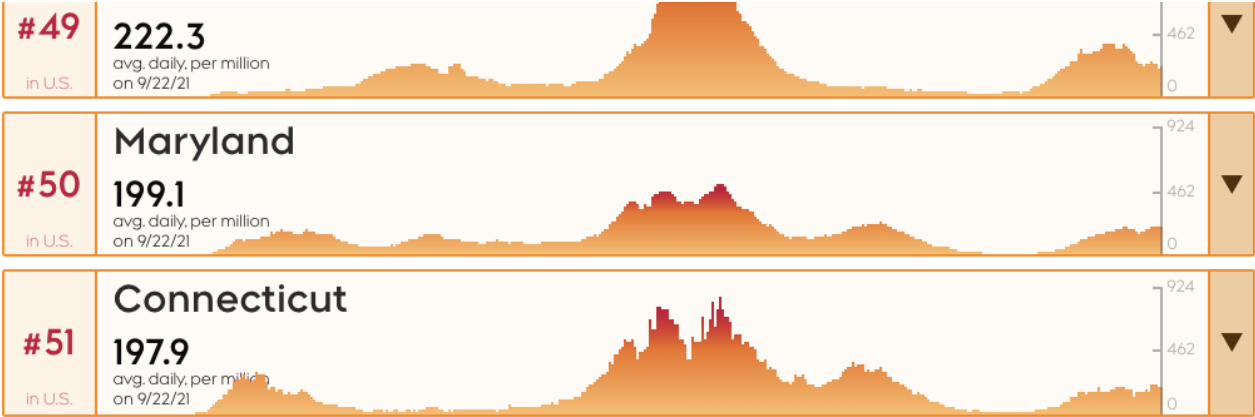


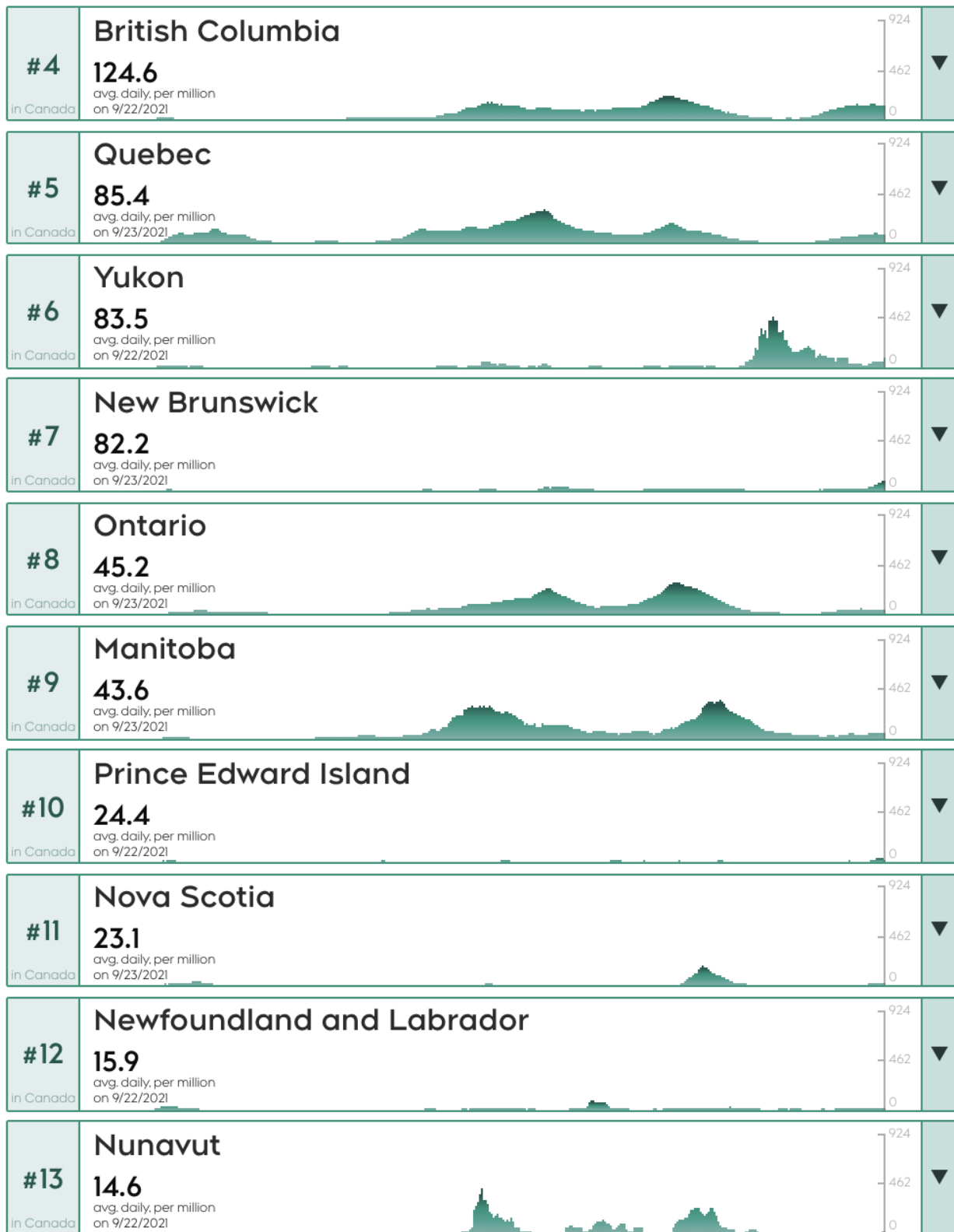












U.S. data is collected daily from the [COVID-19 Data Repository by the Center for Systems Science and Engineering \(CSSE\)](#) at Johns Hopkins University. Canadian data is collected by CTV News based on daily provincial reports.



Photo Credits: David Zakus



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