



CURRENT NEWS ON ECOLOGICAL WELLNESS AND GLOBAL HEALTH

Volume 8, Number 6 <https://planetaryhealthweekly.com> February 10, 2022

Hi,

I always feel whenever new data and analysis about the climate crisis come out that it's new and novel, something we didn't know before, haven't yet learned. I understand that new extreme events happen, often catching those affected by surprise, but it usually all turns out to be completely understandable from what we have already known for quite some time. For many of the events, we should have known and been prepared. But, until they actually happen, like the heat domes and atmospheric rivers of last summer, we're always caught off guard, unprepared.

We always seem to be starting over, dealing with disaster after disaster, explaining climate change as if it's new. We ignore our scientific knowledge base, until we're reminded of it by being hit in the head. It certainly doesn't help that misinformation about the crisis continues unabated, just as it is with the Covid-19 pandemic which is consuming and diverting so much of our attention and energy. The climate, though, continues to warm, as does the Ocean, storms intensify, corals die, lands bake and burn, snowpack melts, lightning gets more intense, new beetles arrive, etc. etc. etc. New disasters appear novel, but their occurrence shouldn't surprise us; we must learn to expect them. But what are we doing to mitigate and adapt? I would like to know of any actions by our governments that have been taken in the last year that will actually reduce our annual greenhouse gas emissions. We always just seem to be at the starting line of a downhill race.

And now we in Canada are presented with a revolt of a few citizens, involving but not led by a small minority of truck drivers, against public health measures to fight Covid-19. Sure, everyone is tired of restrictions and want to move on, but those who respect their neighbour find this repulsive, and we impatiently wait for the protesters to leave. How 'anti-science' has become a well funded movement is truly disturbing, for their views on vaccines are so misinformed, let alone those of masks and what it means to be a good citizen. They also claim to be demanding their freedom, even wanting to replace our government. They want the 'freedom' to drive their trucks (back) into Canada, fly on a plane, go into a restaurant or gym

all without being vaccinated? To me that is hardly what freedom is about, but rather about privileges we earn by exercising mutual respect, upholding the law and getting vaccinated. They do, though, seem to relish in their freedom to wantonly break the law without hesitation.

Afterall, we are prohibited from driving if we're going to drink alcohol, we can't fly or eat in a restaurant and smoke cigarettes. Heck, we even have to stop at a red light on a deserted street. We add iodine to salt, fortify many foods with minerals and vitamins, and our water is spiked with fluoride. Are these abrogations of our rights and freedoms? No, they aren't. They, just like the mandates to protect against a highly contagious and virulent disease, are put in place to protect our health and society and enable us to enjoy our fundamental freedoms. How can it be that a mob is occupying and denigrating the downtown of Canada's capital city and no authority has resolved it yet after 14 days? A few truckers are also protesting public health mandates by blocking the busiest US/Canada border crossing, causing businesses to lose millions of dollars and workers to be idled.

But all these mandates are policy decisions, and people can disagree, no problem. But, they can't be allowed to use their vehicles as weapons, hold society hostage and disagree about our knowledge and use of Covid-19 vaccines, unless they can prove otherwise in the court of science and medicine. Opinions don't count, but can be respected. And then, having their cause infiltrated in Ottawa by people displaying symbols of hate, racism and discrimination is really beyond the pale. Just as is their incessant honking of loud horns all day and night, and seriously abusing neighbours, businesses, the National War Memorial and Tomb of the Unknown Soldier, and the statue of Terry Fox, a national hero who gave his last breath at age 22 raising funds for science to fight cancer. All this is not my vision of Canada, where I have grown up, spending years of learning and working to help others, be tolerant, and think beyond my self-interest. Canada is being degraded and defaced while our politicians and police mostly watch from the sidelines; and like with the climate crisis, no one with civil authority is doing nearly enough.

In today's *Planetary Health Weekly* (#6 of 2022) there are lots of relevant reads:

- CLIMATE CRISIS UPDATES:
 - 'Huge blow' – cuts to gas finance sparks West African backlash,
 - Five ways satellite observations can help deliver on the Glasgow Climate Pact,
 - 2021's weather disasters brought home the reality of climate change,
 - Storm Ana's devastation in southern Africa highlights need for early warnings,
 - Warming Ocean leaves no safe havens for coral reefs,
 - Gas stoves in the U.S. emit methane equivalent to the greenhouse gas emissions of half a million cars,
 - Names: the oil companies gambling on climate failure,
 - Lululemon's Olympic challenge to reduce its (coal) emissions,
 - European Commission endorses fossil gas as 'transition' fuel for private investment,
 - Norway underpaid Indonesia for forest protection results,
 - China now has nearly half of the world's offshore wind capacity,
 - Charted: \$5 trillion in global fossil fuel subsidies (2010-2021),

- CORONAVIRUS UPDATES:
 - The future of epidemic tracking is in your toilet,
 - Omicron drives huge increase in global Covid cases as countries begin to ease restrictions,
 - The land where Covid is now no worse than a cold,
 - Staying psychologically safe as a doctor during the Covid-19 pandemic,
 - 100-day vaccine project in doubt without new human trial regulations,
 - False-positive results in rapid antigen tests,
 - I wish I could quit the anti-vaxx chronicles, but here's why I can't,
 - Despite their pastors dying, between 30-40% of U.S. white evangelical Christians remain anti-vax,
 - Africa: Covid shows World Health Organization funding must increase and be predictable,
 - Experts say vaccine misinformation harms Black communities,
 - Coronavirus: What's happening in Canada & around the world on Feb. 9, THEN
- The alchemy of angst,
- Researchers pinpoint how Zika virus evades cell's antiviral response, site of virus-host interaction offers new target for antiviral therapeutics,
- A warning that Africa's last glaciers will soon vanish,
- Illuminating the vital signs of strong primary health care,
- Read the Sao Paulo Declaration on Planetary Health,
- Rihanna's foundation commits \$15 million to assist climate justice initiatives,
- While Canada cracks down on Indigenous and Black protesters, white supremacists get a free pass in Canada - just look at the convoy,
- Sri Lankan families go hungry as cost of food skyrockets,
- Chiefs of Ontario Environment Newsletter (4th ed.),
- Quote on the power of money in the media,
- The forgotten oil ads that told us climate change was nothing,
- African swine fever in Asia & Pacific update,
- Undocumented workers are cleaning up U.S. climate disasters,
- Everyone needs a home emergency kit – here's what to stock yours with,
- New book: "Principles of Planetary Climate" by Raymond T. Pierrehumbert,
- Girls' Education Accelerator, and finally
- ENDSHOTS of a lasting Ontario winter amid new charts and stats of the pandemic in Canada and around the world.

Do keep reading. Best, david

David Zakus, Editor and Publisher



OAKVILLE, ONTARIO BACKYARD
February 5, 2022

CLIMATE CRISIS UPDATES

‘Huge Blow’ – Cuts to Gas Finance Sparks
West African Backlash



Credit: Africa has very few gas pipelines (brown lines) or LNG gas terminals (brown dots). (Pic: Global Energy Monitor/Screenshot)

Nigerian and Senegalese leaders have criticised governments, mainly in Europe and North America, for cutting off finance to gas projects.

At Cop26, 20 countries and five development banks [pledged](#) to stop approving finance for unabated fossil fuels by the end of 2022. They included the US, Canada, the World Bank, most of Western Europe and six African countries – but not China, Japan, South Korea or Australia.

Two weeks later, Nigeria’s foreign minister Geoffrey Onyeama [told a joint press conference](#) with US secretary of state Anthony Blinken: “This would really be a huge blow for countries such as ours that really want to see gas as a transition fuel and to have time in which to work towards net zero... but in the meantime to be able to also continue to use gas and exploit the gas that we have at our disposal.” **Read more at** [Climate Change News](#)

SEE ALSO:

At Climate Change News: [Five ways satellite observations can help deliver on the Glasgow Climate Pact](#)

Also visit European Space Agency’s [Climate from Space app](#) to explore global satellite records that span five decades and form a major contribution to the scientific evidence that underpins current understanding and future prediction of the changing climate.

At National Geographic: [2021's weather disasters brought home the reality of climate change](#)

At the Weather Network: [Storm Ana's Devastation in Southern Africa Highlights Need for Early Warnings](#)

At Inside Climate News: [Warming Ocean Leaves No Safe Havens for Coral Reefs](#)

At Inside Climate News: [Gas Stoves in the US Emit Methane Equivalent to the Greenhouse Gas Emissions of Half a Million Cars](#)

At Climate Change News: [Named: The oil companies gambling on climate failure](#)

At Inside Climate News: [Lululemon's Olympic Challenge to Reduce Its Emissions](#)

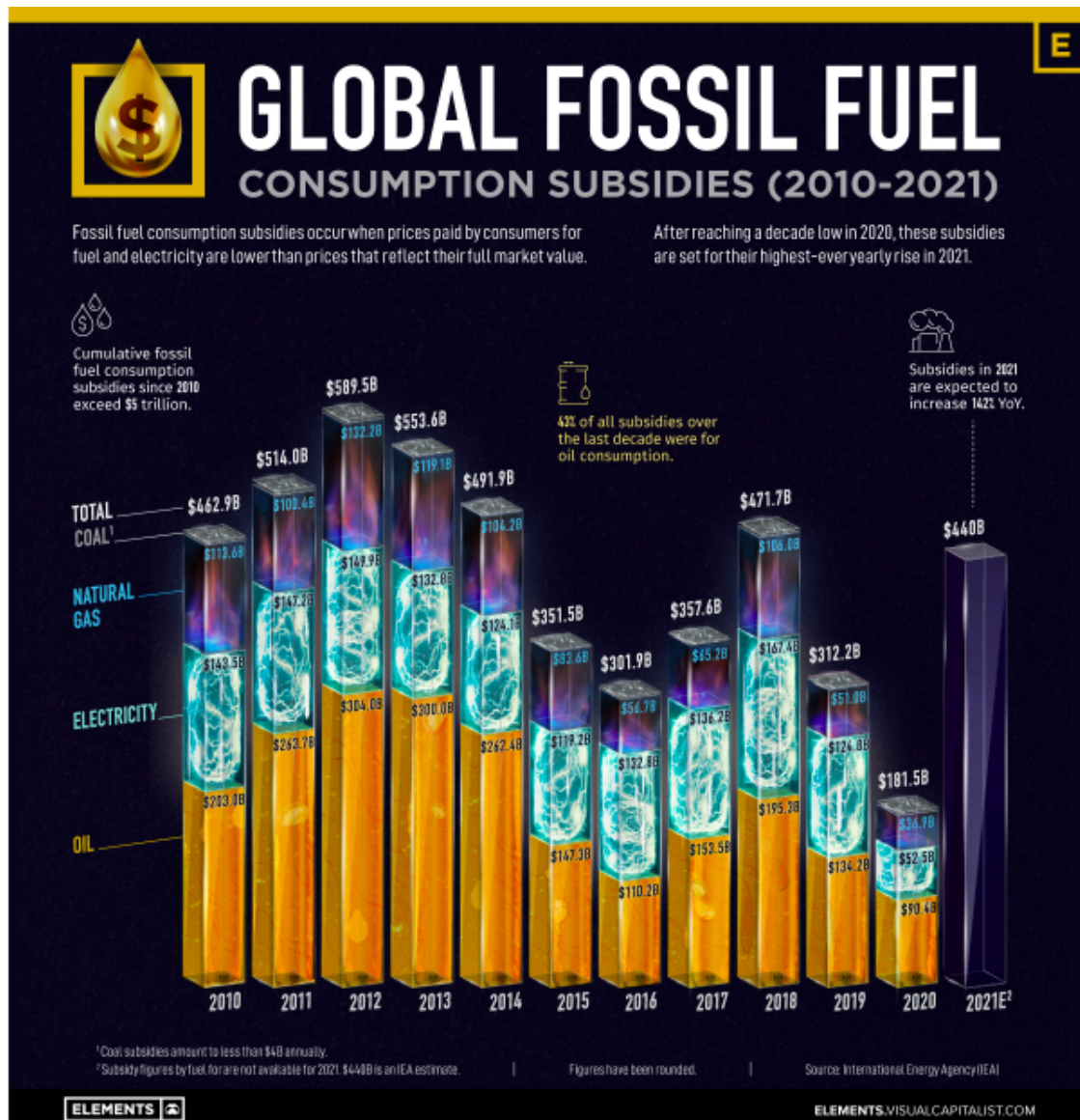
Members of the environmental advocacy group Stand.earth awarded a tongue-in-cheek “coal medal” to Lululemon Athletica, best known for its yoga gear, because the fast-growing apparel brand relies heavily on coal power to source, weave and dye its fabric and manufacture its clothing.

At Inside Climate News: [European Commission endorses fossil gas as ‘transition’ fuel for private investment](#)

At Inside Climate News: [Norway underpaid Indonesia for forest protection results, study argues](#)

At Economist: [China now has nearly half of the world’s offshore wind capacity.](#)

At Visual Capitalist: [Charted: \\$5 Trillion in Fossil Fuel Subsidies](#)



SARS-CoV-2 & COVID-19 UPDATES



Source of Global Data above: Johns Hopkins University <https://coronavirus.jhu.edu/ma...>

Globally, nationally and locally, the pandemic continues to ravage many parts of the world, now with Omicron and the angst to ease restrictions. Cases have spiked recently but are now reducing somewhat, but it's not near being over yet, despite what some say about learning to live with the virus.

Over the last week there were about 18 million new cases (down ~15% though monitoring is insufficient now) and 77,000 deaths (this week up again another 10%). About 132 million people received a vaccine, up ~8%, while distribution still remains grossly distorted, especially for those in Africa. In Canada it just seems to be a mess.

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

The Future of Epidemic Tracking Is in Your Toilet



Credit: NICHOLAS KAMM/AFP/GETTY IMAGES

Not everyone will get a Covid test, but everyone poops. That's why cities across Canada and the United States are using municipal wastewater to track the still-raging pandemic. The amount of the SARS CoV-2 [RNA in the sewershed](#) can indicate the level of the virus in a community as a whole, whether or not individuals above ground are experiencing symptoms. In fact, the tool is a leading indicator of Covid-19's spread, predicting spikes [three to seven days](#) before the number of reported cases rises. Read more at [New Republic](#)

SEE MORE COVID-19 STORIES:

At Telegraph: [Omicron drives huge increase in global Covid cases as countries begin to ease restrictions](#)

At Telegraph: [The land where Covid is now no worse than a cold](#)

At FMCH: [Staying psychologically safe as a doctor during the COVID-19](#)

At Telegraph: [100-day vaccine project in doubt without new human trial regulations](#)

At Jama Network: [False-Positive Results in Rapid Antigen Tests for SARS-CoV-2](#)

At Daily Kos: [I wish I could quit the Anti-vaxx Chronicles, but here's why I can't](#)

At Daily Kos: [Despite Their Pastors Dying, Between 30-40% of U.S. White Evangelical Christians Remain Anti-Vax](#)

At All Africa: [Africa: Covid Shows World Health Organization Funding Must Increase and Be Predictable](#)

At Breakfast Television: [Experts say vaccine misinformation harms Black communities](#)

At CBC: [Coronavirus: What's happening in Canada & around the world on Feb. 9](#)

The Alchemy of Angst

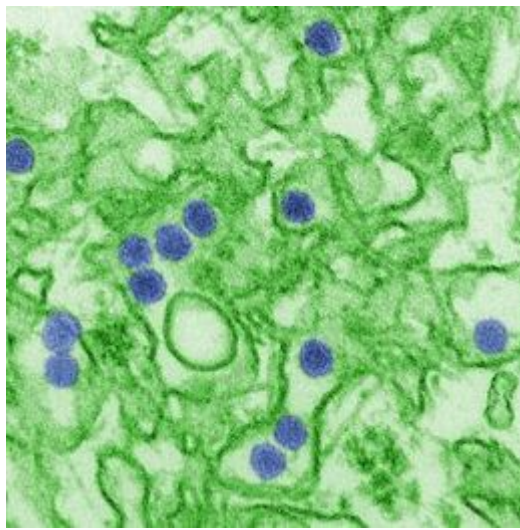


Credit: Article

In a world smothered by information but lacking wisdom, anger, born of pain, has become the defining emotion. The false promise of twenty-first-century digital technologies has been laid bare, leaving people desperate for meaningful human connection and a sense of political agency.

Ours is the Age of Angst. It is an era of anger, apprehension, fear, confusion, division, polarization, and an increasing distrust in and disdain for institutions. Thanks to the proliferation of digital technologies, we are both spectators and gladiators. We can switch roles in the blink of an eye, whizzing back and forth between the audience seats and the dry, dusty arena. Read more at [Project-Syndicate](#)

Researchers Pinpoint How Zika Virus Evades Cell's Antiviral Response: Site of Virus-host Interaction Offers New Target for Antiviral Therapeutics



Credit: wiki

In a new study of the Zika virus, scientists have discovered a key mechanism used by the virus to evade the antiviral response of the cell it is attacking. This finding contributes to a better understanding of how viruses infect cells, overcome immune barriers and replicate -- information that is essential for fighting them. Read more at [Science Daily](#).

A Warning That Africa's Last Glaciers Will Soon Vanish



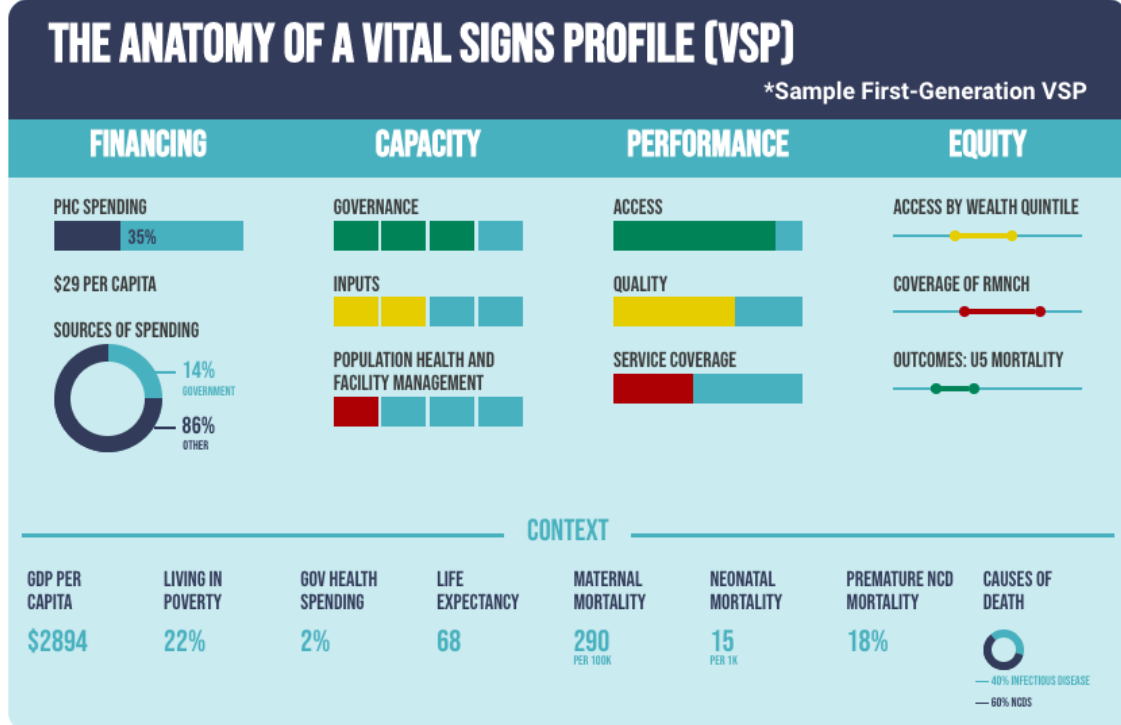
A glacier on Mount Kilimanjaro, Tanzania, in 2010. Credit: Chris Jackson/Getty Images

The last three mountain glaciers in Africa are receding at such a rapid pace that they could disappear within two decades, a symbol of the broader devastation being wrought by [climate change](#) on the continent, according to [a new U.N. report](#).

While African nations contribute less than 4 percent of global greenhouse gas emissions, [the report by the World Meteorological Organization and other agencies](#) underscored the outsize impact that changes in the climate are having on the continent's 1.3 billion people as floods grow worse, droughts last longer and temperatures continue to rise.

"The rapid shrinking of the last remaining glaciers in eastern Africa, which are expected to melt entirely in the near future, signals the threat of imminent and irreversible change to the Earth system," the World Meteorological Organization's secretary general, Petteri Taalas, said in a foreword to the report. Read more at [NY Times](#).

If Health Systems Could Talk: Illuminating the Vital Signs of Strong Primary Health Care



Eleven countries launched the first Vital Signs Profiles in 2018 at the Global Conference on Primary Health Care in Kazakhstan. Credit: Article

Every day, leaders face tough choices to ensure that their health systems can protect everyone, in crisis and calm. Imagine making those decisions in the dark, with sparse information on where primary health care – the foundation of health systems – is working or not, and why.

While global commitments to primary health care extend back decades, as recently as 2015, there was no comprehensive framework for primary health care, and once the essential building blocks were defined, only 25% could be evaluated through well-established measures. Read more at [PHC Vital Signs](#).

GOOD NEWS

Read the Sao Paulo Declaration on Planetary Health



Credit: ARTICLE

The São Paulo Declaration on Planetary Health is a multi-stakeholder call to action co-created by the global planetary health community. It outlines the actions necessary for us to achieve the Great Transition, a just transformation to a world that optimizes the health & well-being of all people and the planet. (The PHW is a member.) Read more at [Planetary Health Alliance](#).

MORE GOOD NEWS

Rihanna's Foundation Commits \$15 Million to Assist Climate Justice Initiatives



Credit: Article

The Clara Lionel Foundation (CLF), founded by R&B superstar Rihanna, is betting on climate change as disasters, continue to grow in frequency and intensity. The foundation has committed \$15 million to 18 organizations working on climate justice across the U.S. and Caribbean in partnership with #StartSmall, Jack Dorsey's philanthropic initiative. Read more at [NY Carib News](#)

OPINION

While Canada Cracks Down on Indigenous and Black Protesters, White Supremacists Get a Free Pass in Canada. Just Look At the Convoy



Credit: Article

Imagine a Canada where land defenders, opposing the ecological threat of their homelands, are met with violent police and assault rifles.

A Canada where Indigenous women fighting for compensation for children who have been abused by child welfare are sued by the country. Where Black people demanding meaningful inclusion in a Pride parade incurs the wrath of a country because they spoke up at a parade they were invited to. Where Black and Indigenous people who are exercising their rights to protest are routinely monitored by the RCMP, seen as threats to the state.

Where truck drivers ram their pickups through protest lines, or decorate their vehicles with violent and racist language of inflicting harm on Indigenous peoples because of their protest.

Now, imagine a Canada where people openly support far right movements, [openly complain about](#) "depopulation of the Caucasian race ...(because) the goal is, is to depopulate the Anglo-Saxon race because they are the ones with the strongest bloodlines," and threaten to gridlock the nation's capital or overthrow it. Where

MPs are being told to hide as the mob receives police escort and are given access to washrooms and warm greetings with the same leaders who threaten to criminalize Black and Indigenous protestors for fighting for their lives.

This is the current reality, Canada. And it's ugly. Read more at [The Star](#).

SPOTLIGHT ON POLICY

Sri Lankan Families Go Hungry as Cost of Food Skyrockets



Credit: Samantha Perera

Dinner time has become Susila Irangani's least favourite time of the day. Nowadays, the 62-year-old never knows whether she will be able to put food on the table for her two daughters. The price of essential foodstuffs – from dhal to eggs – have doubled in her village of Dummalasuriya in Sri Lanka's northwestern province over the last year alone.

"We used to have three meals a day but now we are having to skip dinner because of the little income that we have. This is all because of the increase in prices of essential goods," said Ms Irangani. "The cost of living is such that we cannot even think of having a balanced meal."

The housewife says her family can no longer afford to purchase meat or vegetables when they do eat and that the extortionate price of kerosene has sent her husband into the nearby forests to collect firewood. Read more at [Telegraph](#).

SPOTLIGHT ON INDIGENOUS WELLNESS

Chiefs of Ontario Environment

Newsletter – 4th Edition



[Website](#)

Our ceremonies follow the cycle of the seasons and are determined by careful observance of the land, moon and seasons' cycle. Midwinter (Tshatek'chelha) is a time of renewing our responsibilities for the coming year and to give thanks to all things on earth. In this quarterly newsletter, the Environment team will provide several key updates on files that continue to move forward and reflect upon successes. We continue to provide updates on a number of key areas such as climate change, the great lakes (largest eco-system), safe drinking water, and environmental protection activities. We hope you enjoy the Good News Stories that continue to provide us with motivational projects in First Nation Communities breaking barriers for everyone. Read more at [Chiefs of Ontario](#)

Quote Of The Week:



Paul Hawken

“People’s beliefs are determined by our culture, and our culture is now determined by money. Money is what controls media, money controls advertisements, money controls social media. It’s a machine that skews our values.

"The living system of Earth is giving us feedback, which is a gift and call to action."

Paul Hawken - an environmentalist, entrepreneur, bestselling author, and a renowned lecturer who has keynoted conferences and led workshops on the impact of commerce upon the environment. Hawken has consulted with governments and corporations throughout the world and has appeared in numerous media including the Today Show, Bill Maher, Larry King, Talk of the Nation, and has been profiled or featured in hundreds of articles including the *Wall Street Journal*, *Newsweek*, *Washington Post*, *Business Week*, *Esquire*, and *US News and World Report*.

In this podcast he addresses the question of "What Could Possibly Go Right?" with further thoughts including:

- The dysfunction of capitalism, and its distinction from the ancient human values of commerce
- That the climate conversation is often exclusive and uses "othering language" and concepts that are not easily understood
- By contrast, "regeneration is innate to being a human being" and "provides a sense of purpose, meaning and dignity to people's lives everywhere in the world"
- Regeneration is about falling in love with the world; "As a way of understanding and seeing the world, it gives you a much broader, more detailed, more granular, more beautiful, more mysterious, more complex way of understanding what's possible, and what your role can be in this possibility."

Listen to the Podcast

Upcoming Events

- March 28-April 1-3, 2022: CUGH 2022 Global Health Conference - All virtual: [Healthy People, Healthy Planet, Social Justice](#) (Los Angeles, California). Virtual Satellite Sessions: March 21-25, 2022
- April 23-25, 2022: [8th International Conference on Information and Communication Technologies for Ageing Well and e-Health \(online streaming\)](#)
- May 14-15, 2022: Canadian Conference on Global Health (Montreal, Quebec)
- May 15-19, 2022: [24th World Conference on Health Promotion](#) (Montreal, Quebec)

- October 31 - November 4, 2022: [7th Global Symposium on Health Systems Research \(Bogotá, Colombia\)](#)

FYI#1 SPOTLIGHT ON MEDIA

The Forgotten Oil Ads That Told Us Climate Change Was Nothing



Life Magazine, 1962

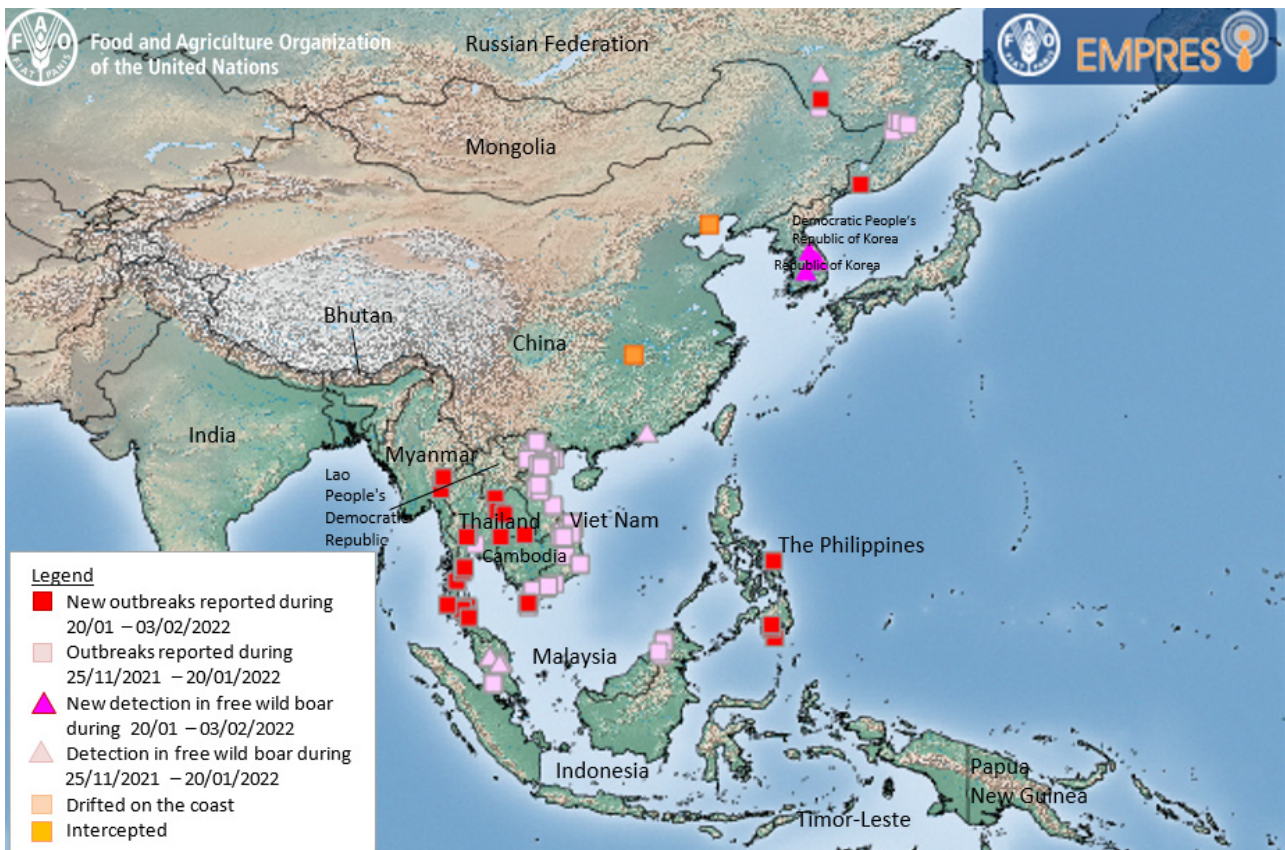
Credit: Article

Why is meaningful action to avert the climate crisis proving so difficult? It is, at least in part, because of ads.

The fossil fuel industry has perpetrated a multi-decade, multibillion dollar disinformation, propaganda and lobbying [campaign](#) to delay climate action by confusing the public and policymakers about the climate crisis and its solutions. This has involved a remarkable array of advertisements – with headlines ranging from “Lies they tell our children” to “Oil pumps life” – seeking to convince the public that the climate crisis is not real, not human-made, not serious and not solvable. The campaign continues to this day.

FYI #2

African Swine Fever Situation In Asia & Pacific Update



Credit:

Article

African swine fever (ASF) is a viral disease affecting pigs and wild boar with up to 100% case fatality rate. ASF reported administrative areas since August 2018: China, Mongolia, Viet Nam, Cambodia, Democratic Peoples' Republic of Korea, Lao People's Democratic Republic, Myanmar, The Philippines, Republic of Korea, Timor-Leste, Indonesia, Papua New Guinea, India, Malaysia, Bhutan and Thailand.

Read more at Food and Agriculture Organization

Undocumented Workers Are Cleaning Up U.S. Climate Disasters. A New Bill Would Protect Them



Credit: Parker Deen/Getty Images

When Hurricane Katrina hit New Orleans in 2005, the devastation was immediate and intense — hundreds of thousands of people in the region lost their homes, the area's infrastructure was decimated, and more than 1,800 people died, most of them Black and low-income. In the weeks and months following the storm, the Federal Emergency Management Administration, nonprofit groups, and disaster aid organizations arrived in Louisiana to lend a hand.

So did migrant workers from Honduras, Venezuela, and other countries. Undocumented workers, along with formerly incarcerated American citizens, [helped rebuild New Orleans](#). When that job was done, many of these workers moved on to the next storm-ravaged American city or town, and then the next, and the next.

Read more at Grist

Everyone Needs a Home Emergency Kit. Here's What To Stock Yours With



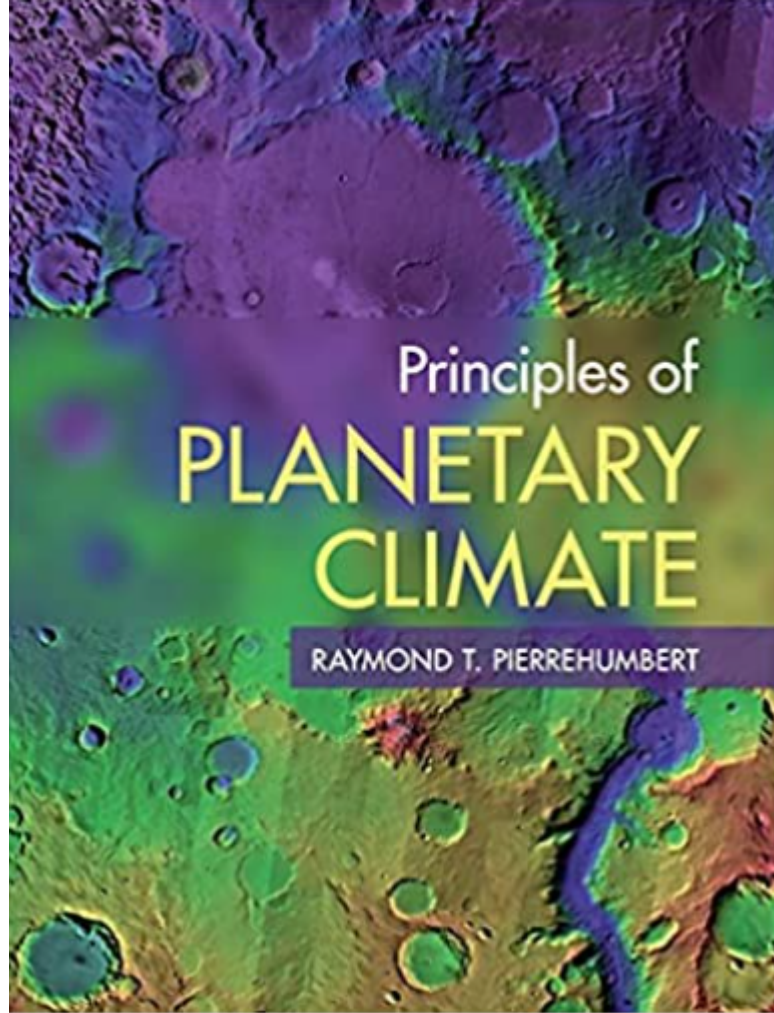
[Credit: Article](#)

Whether it's due to damage from severe thunderstorms in peak summer, or a crippling ice storm in the winter, every household should be prepared to spend a prolonged period of time without power or even access to help.

[Read more at the Weather Network](#)

FYI #5: :FEBRUARY READING - NEW BOOK

Principles of Planetary Climate



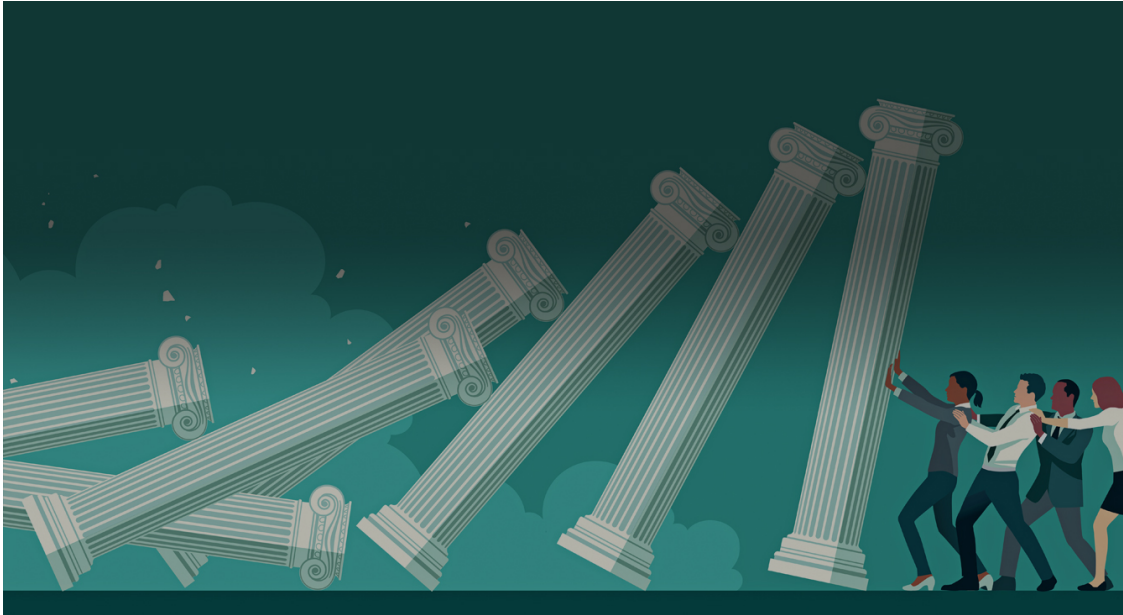
Credit: Book Cover

This book introduces the reader to all the basic physical building blocks of climate needed to understand the present and past climate of Earth, the climates of Solar System planets, and the climates of extrasolar planets. These building blocks include thermodynamics, infrared radiative transfer, scattering, surface heat transfer and various processes governing the evolution of atmospheric composition.

Nearly four hundred problems are supplied to help consolidate the reader's understanding, and to lead the reader towards original research on planetary climate. This textbook is invaluable for advanced undergraduate or beginning graduate students in atmospheric science, Earth and planetary science, astrobiology and physics. It also provides a superb reference text for researchers in these subjects, and is very suitable for academic researchers trained in physics or chemistry who wish to rapidly gain enough background to participate in the excitement of the new research opportunities opening in planetary climate.

[Read more at Amazon](#)

Girls' Education Accelerator



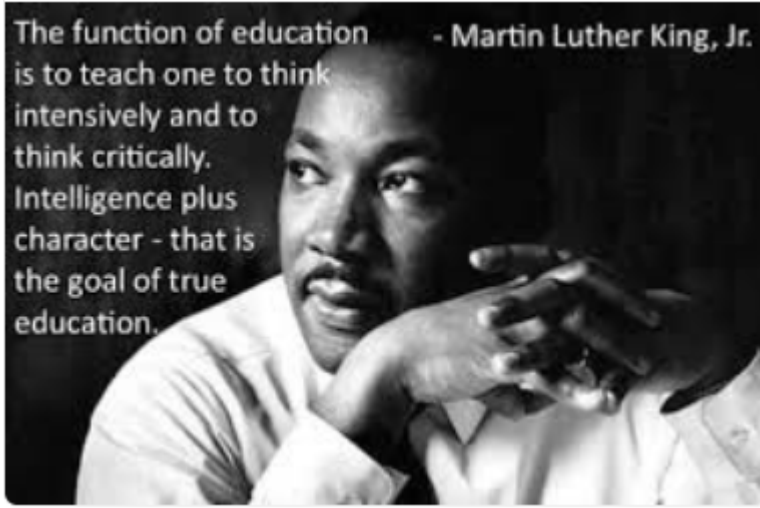
Credit: Joey Guidone

Every girl deserves a quality education and every country deserves gender equality. In December 2020, the Global Partnership for Education (GPE) created the US\$250 million Girls' Education Accelerator to transform girls' opportunities to go to school and learn.

To secure funding, countries commit to ambitious action for gender equality by investing in girls' education.

GPE is the largest global fund solely dedicated to transforming education in lower-income countries, and a unique, multi-stakeholder partnership. It works to deliver quality education so that every girl and boy can have hope, opportunity and agency.

[Read more at Global Partnership for Education](#)



ENDSHOTS

WINTER CONTINUES!!

ONTARIO, CANADA

FEBRUARY 4-9, 2022

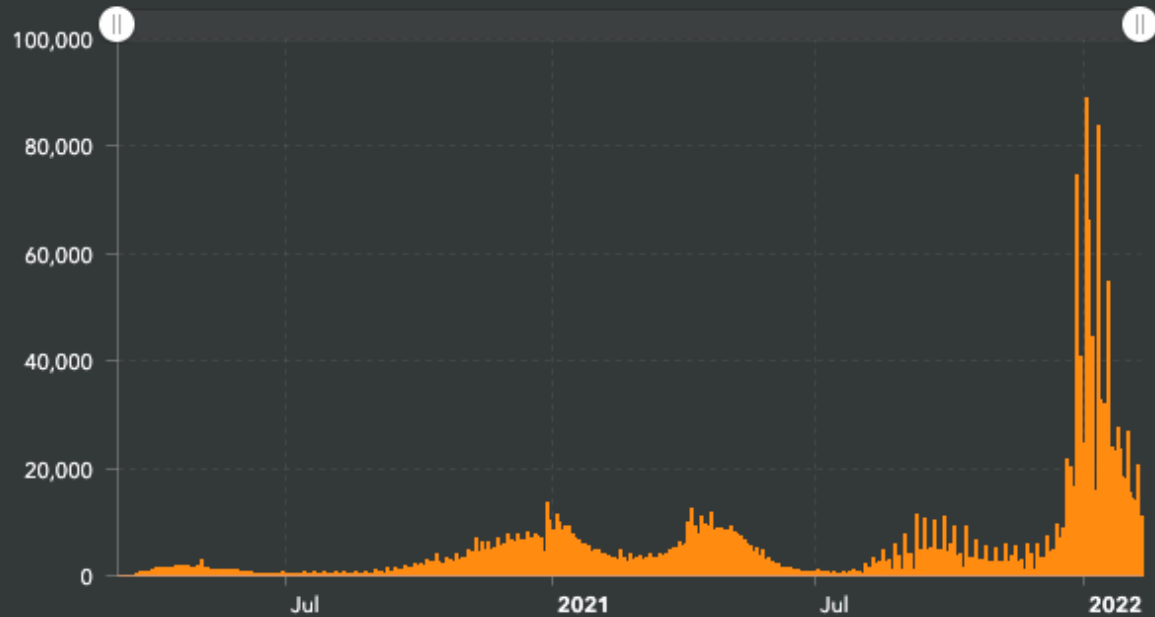
Amid Latest Covid-19 Stats and Charts



Sunrise over Whitefish Lake, Ontario - February 4, 2022

Daily Case Trends

Choose Region: Canada



Dashboard by Esri Canada | [Get The Data](#)

New Cases

Deaths

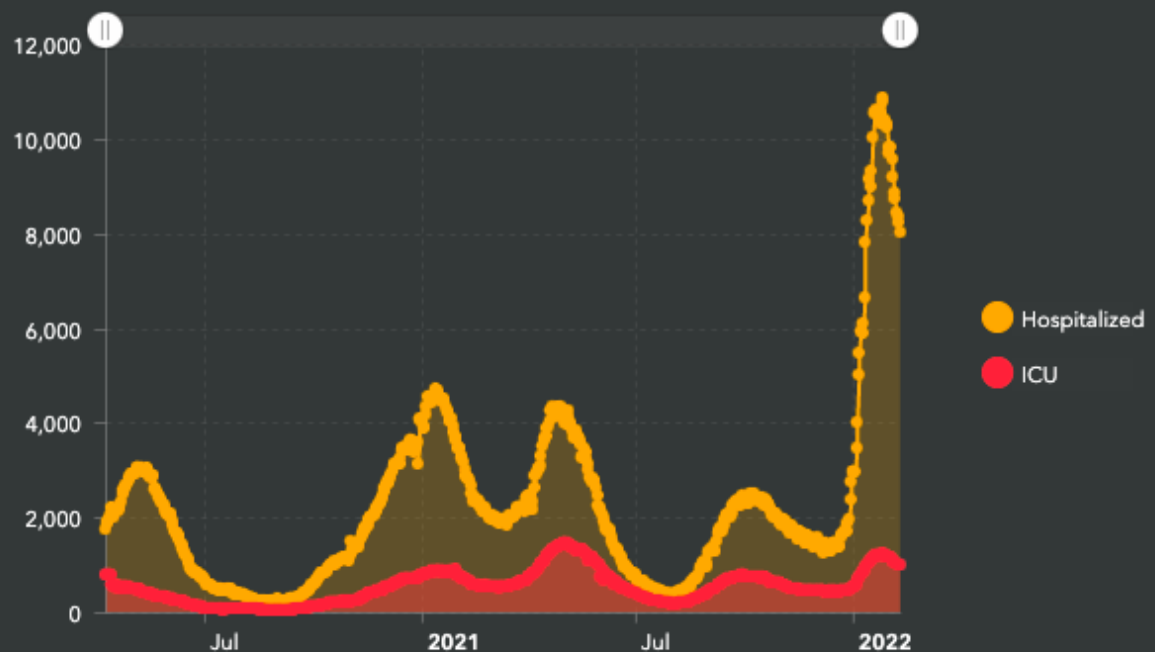
Cumulative Cases

Hospitalizations

Source of Canadian Data Above & Below: [CanCovid.ca](https://can-covid.ca) - February 10, 2022

Daily Case Trends

Choose Region: Canada



Dashboard by Esri Canada | [Get The Data](#)

New Cases

Deaths

Cumulative Cases

Hospitalizations

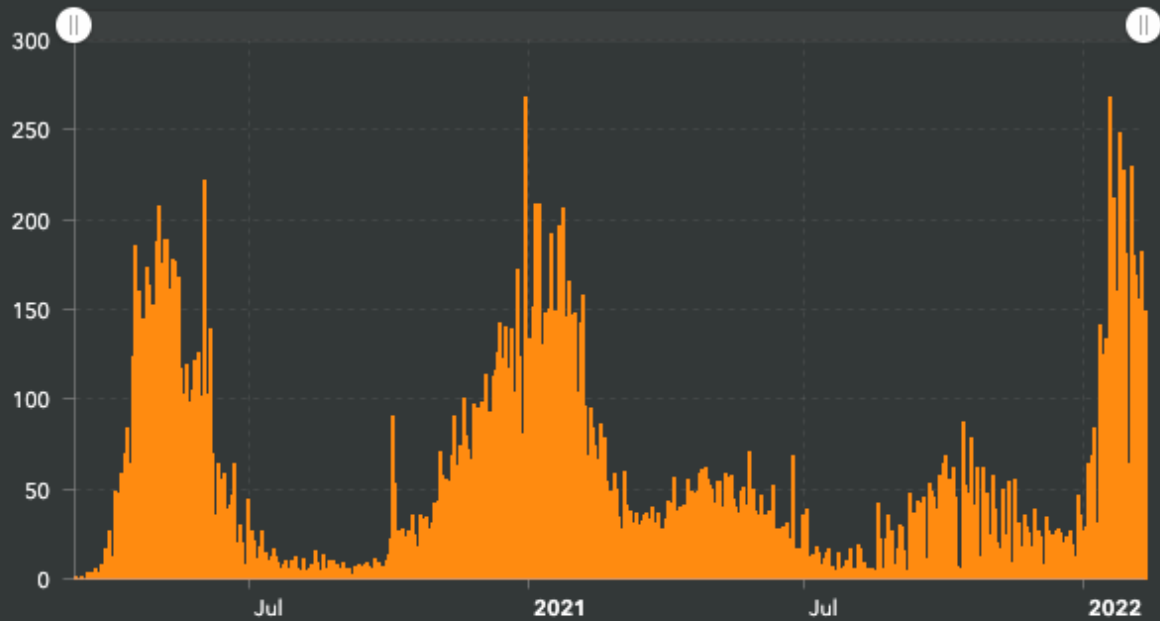
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Daily Case Trends

Choose Region:

Canada



Dashboard by [Esri Canada](#) | [Get The Data](#)

New Cases

Deaths

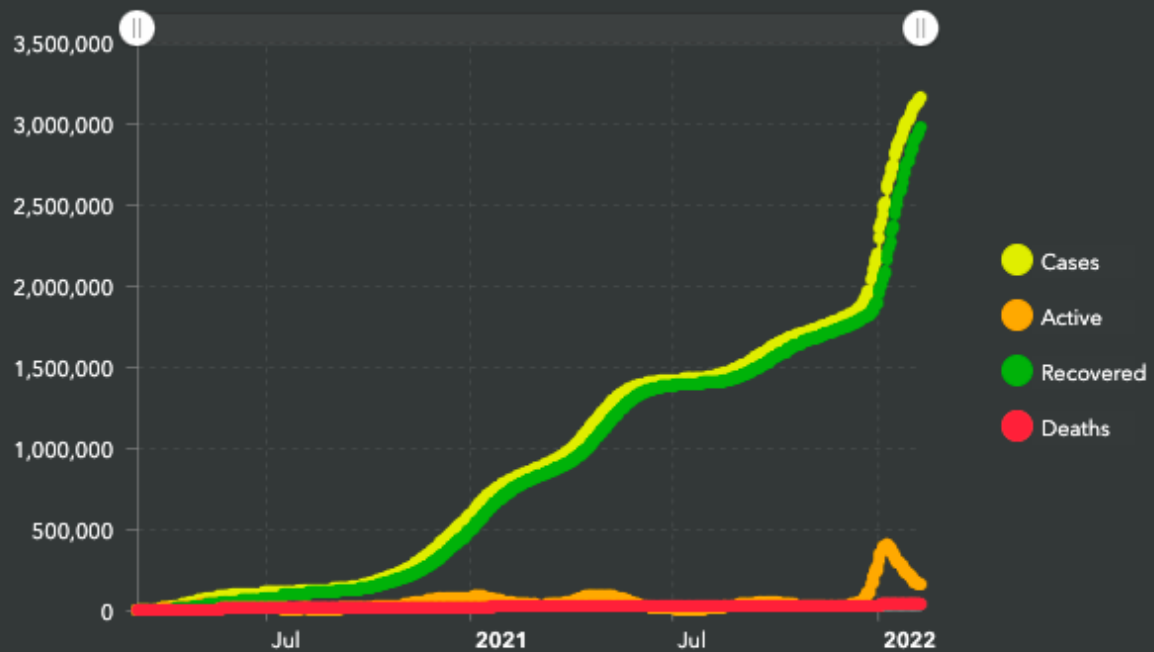
Cumulative Cases

Hospitalizations

Daily Case Trends

Choose Region:

Canada



Dashboard by [Esri Canada](#) | [Get The Data](#)

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New Cases

Deaths

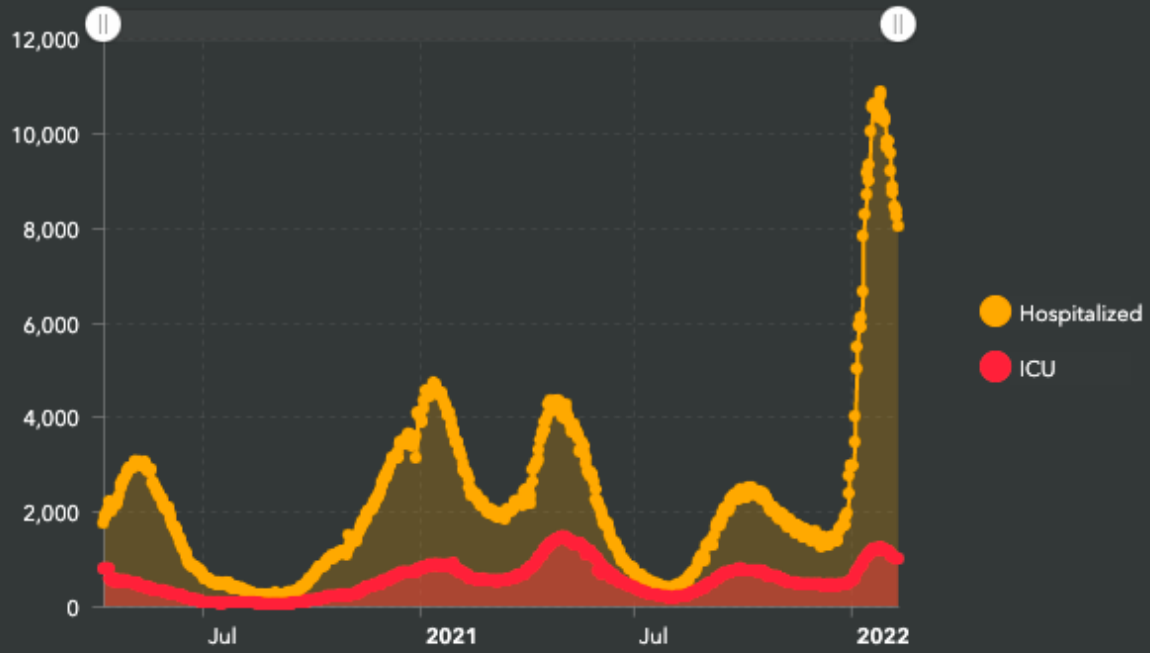
Cumulative Cases

Hospitalizations

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New Cases

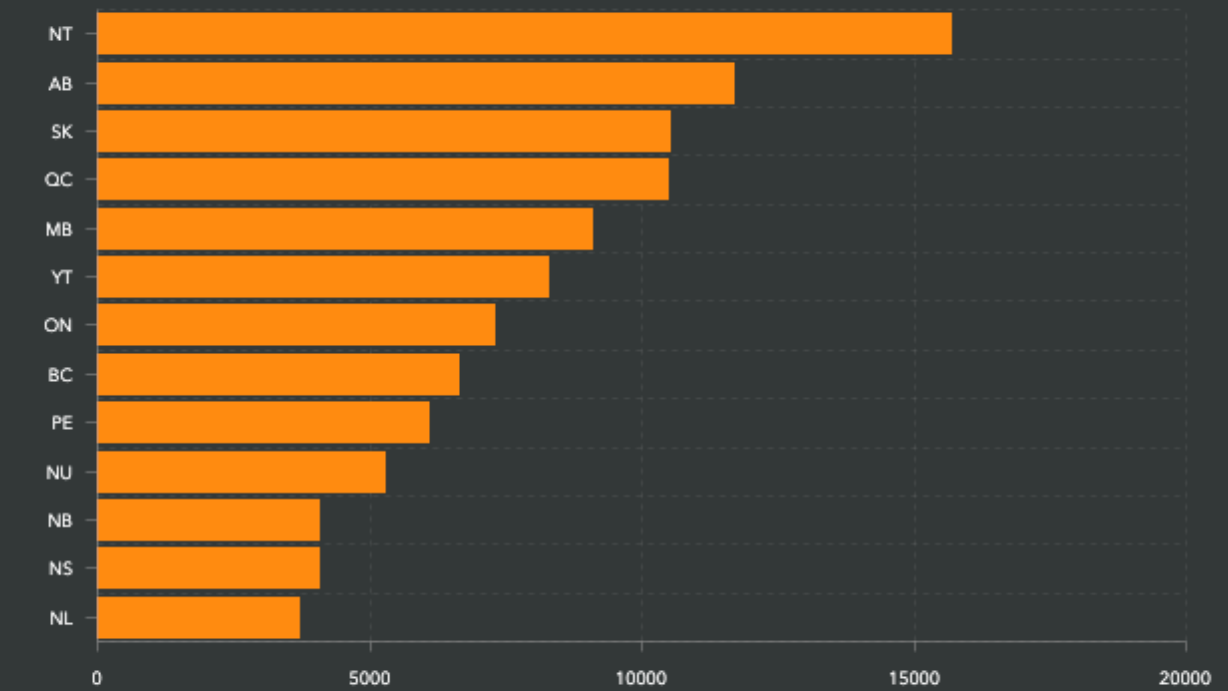
Deaths

Cumulative Cases

Hospitalizations



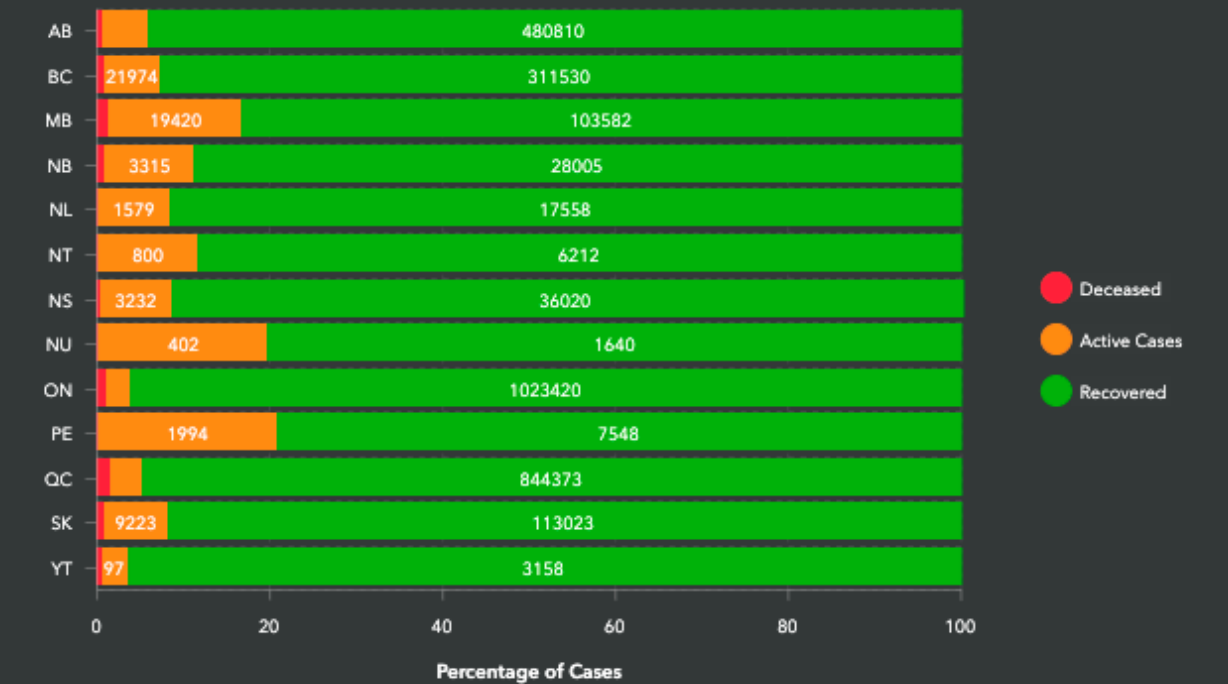
Cases Per 100K By Province



Dashboard by [Esri Canada](#) | [Get The Data](#)

Vaccine Rate Vaccine Doses Case Rate Case Status Tests

Cases By Province



Dashboard by [Esri Canada](#) | [Get The Data](#)

Click legend dots to toggle

Vaccine Rate Vaccine Doses Case Rate Case Status Tests

Vaccine Doses By Province



Dashboard by [Esri Canada](#) | [Get The Data](#)

[Click legend dots to toggle](#)

Vaccine Rate

Vaccine Doses

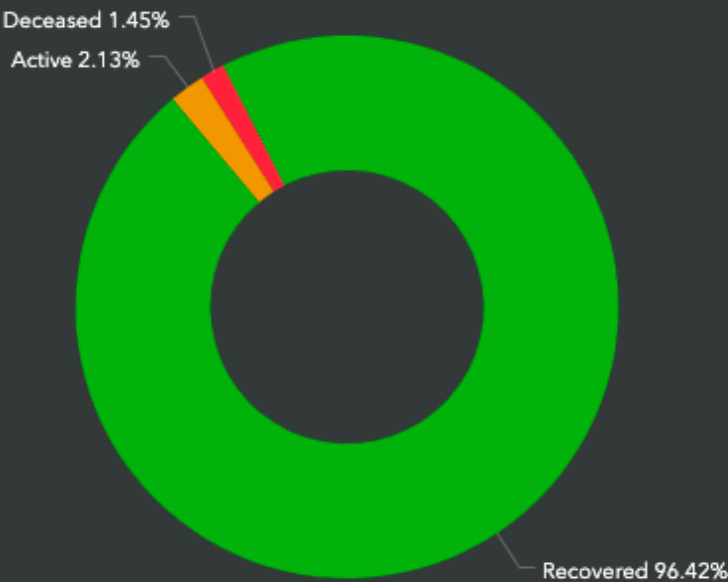
Case Rate

Case Status

Tests



Cases By Status



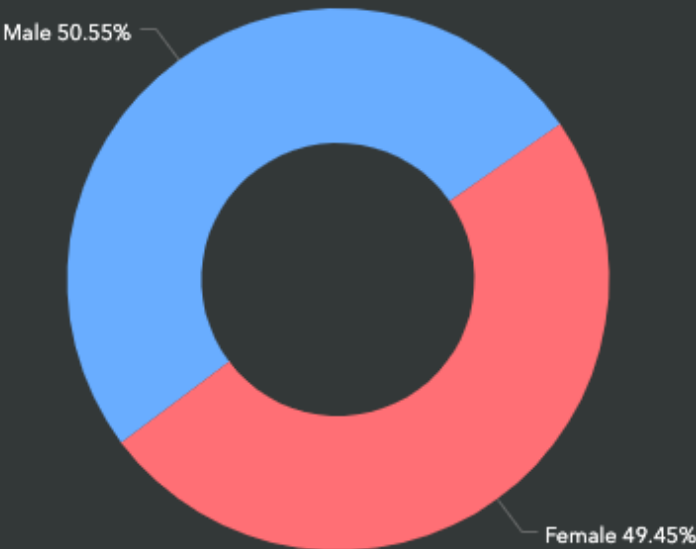
Dashboard by [Esri Canada](#) | [Get The Data](#)

1,384,881 Cases Reporting

622,992 Cases Not Reporting Status

Vaccination Exposure Status Age Gender

Cases By Gender



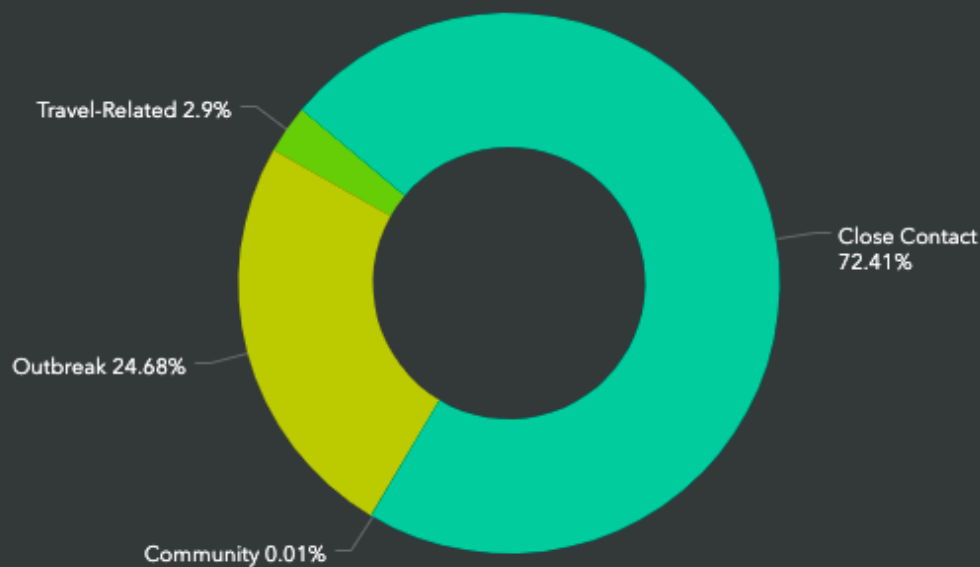
Dashboard by [Esri Canada](#) | [Get The Data](#)

1,384,881 Cases Reporting

481,912 Cases Not Reporting Gender

Vaccination Exposure Status Age Gender

Case Breakdown by Exposure Type



Dashboard by [Esri Canada](#) | [Get The Data](#)

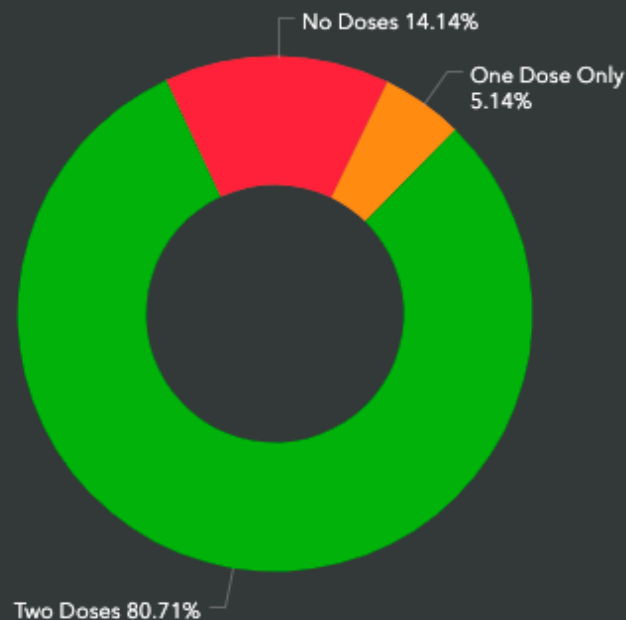
1,384,881 Cases Reporting

1,056,200 Cases Not Reporting Exposure

[Vaccination](#) [Exposure](#) [Status](#) [Age](#) [Gender](#)

National Rate (One or more Doses): 85.9%

National Vaccine Status



Dashboard by [Esri Canada](#) | [Get The Data](#)

Percent calculated using total 2019 population

[Vaccination](#) [Exposure](#) [Status](#) [Age](#) [Gender](#)

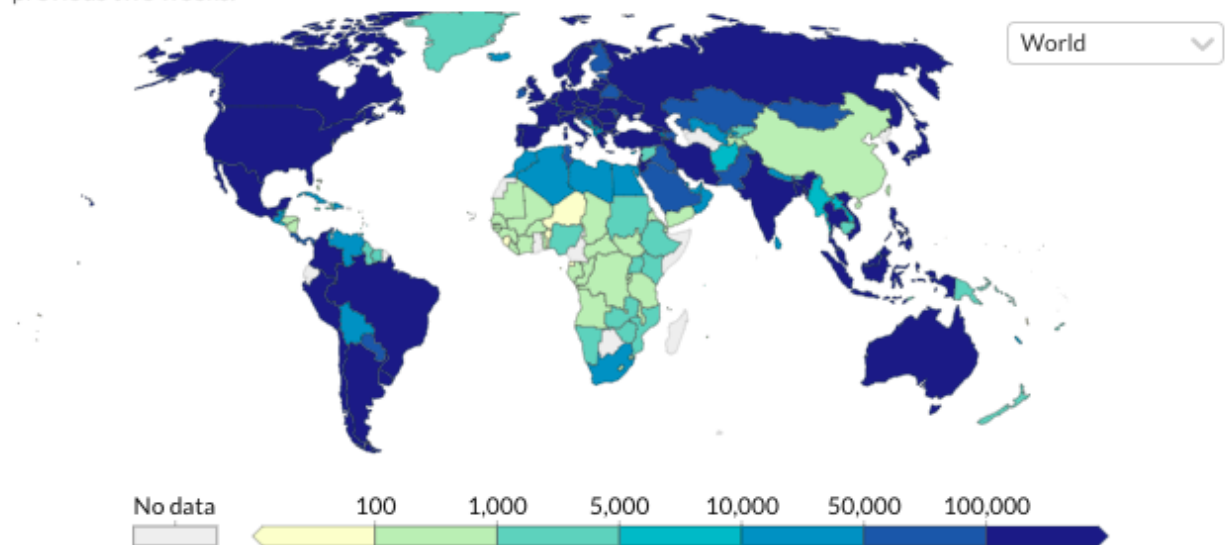


Source of all data below: [OurWorldInData.org](https://ourworldindata.org) - February 10, 2022

Biweekly confirmed COVID-19 cases, Feb 9, 2022

Biweekly confirmed cases refer to the cumulative number of confirmed cases over the previous two weeks.

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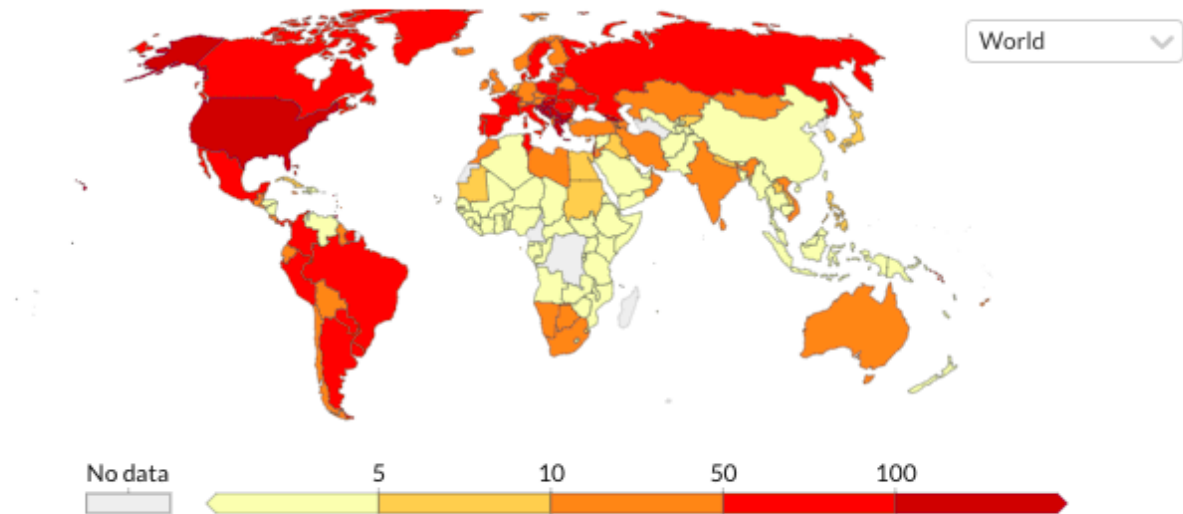


Source: Johns Hopkins University CSSE COVID-19 Data – Last updated 10 February, 08:04 (London time)
[OurWorldInData.org/coronavirus](https://ourworldindata.org/coronavirus) • CC BY

Biweekly confirmed COVID-19 deaths per million people, Feb 9, 2022

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Biweekly confirmed deaths refer to the cumulative number of confirmed deaths over the previous two weeks.

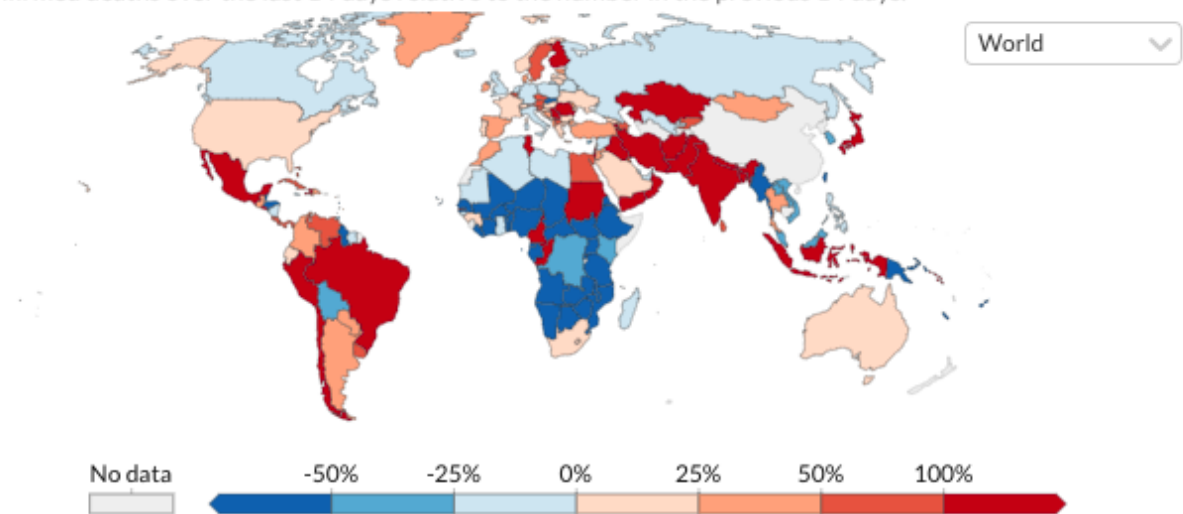


Source: Johns Hopkins University CSSE COVID-19 Data - Last updated 10 February, 08:04 (London time)
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Biweekly change in confirmed COVID-19 deaths, Feb 9, 2022

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The biweekly growth rate on any given date measures the percentage change in the number of new confirmed deaths over the last 14 days relative to the number in the previous 14 days.

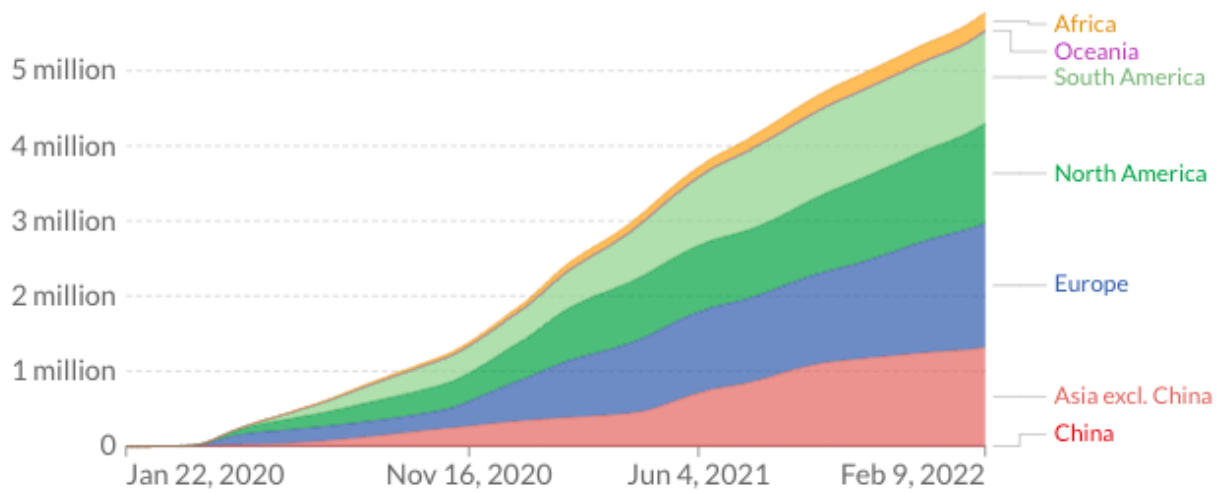


Source: Johns Hopkins University CSSE COVID-19 Data - Last updated 10 February, 08:04 (London time)
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Cumulative confirmed COVID-19 deaths by world region

For some countries the number of confirmed deaths is much lower than the true number of deaths. This is because of limited testing and challenges in the attribution of the cause of death.

□ Relative

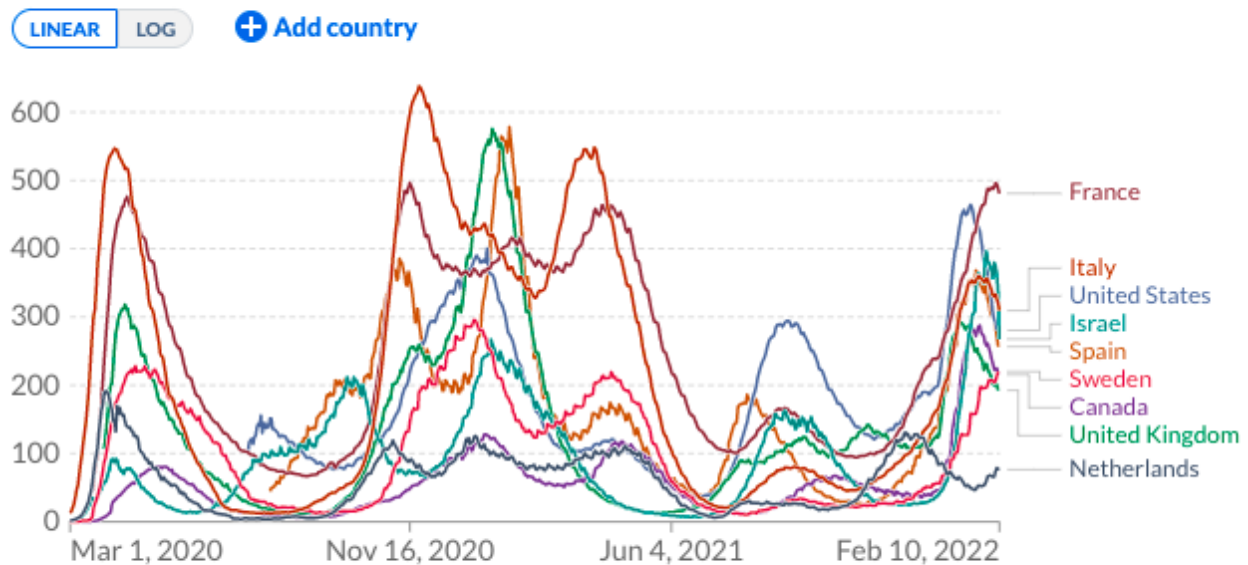


Source: Johns Hopkins University CSSE COVID-19 Data – Last updated 10 February, 18:05 (London time)
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Number of COVID-19 patients in hospital per million

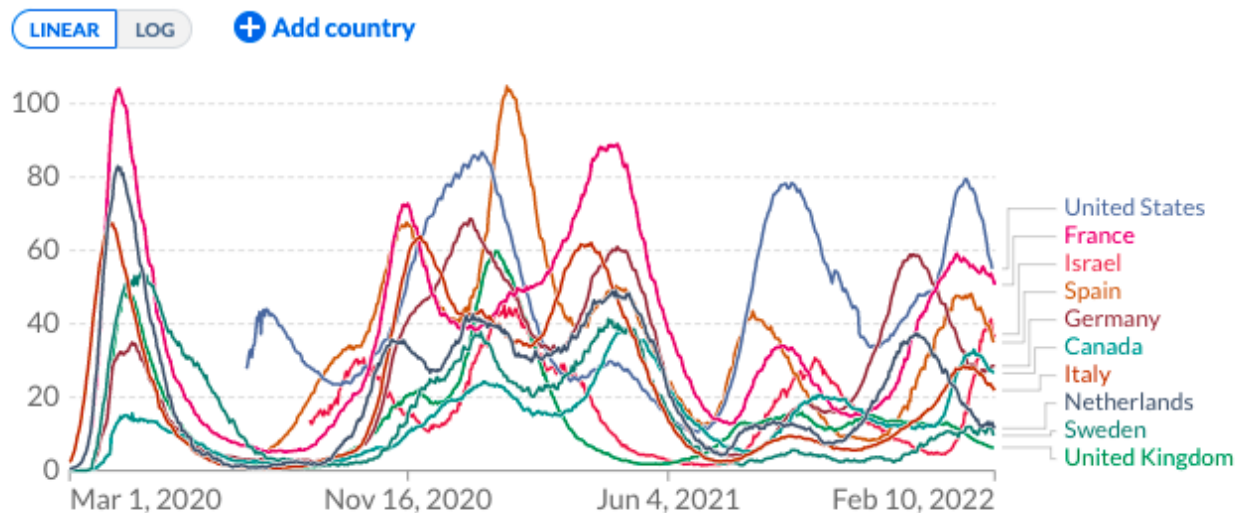
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Source: Official data collated by Our World in Data - Last updated 10 February 2022, 18:08 (London time)
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Number of COVID-19 patients in ICU per million

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in Data



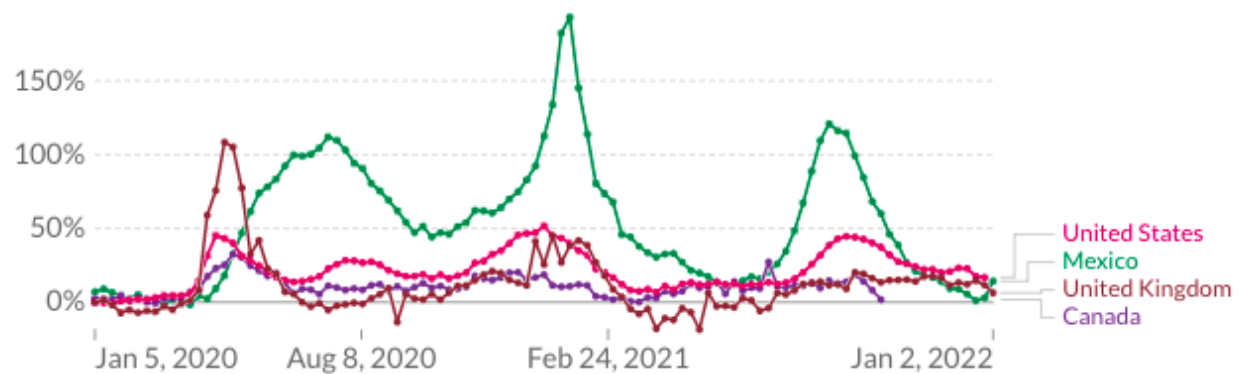
Source: Official data collated by Our World in Data - Last updated 10 February 2022, 18:08 (London time)
Note: For countries where the number of ICU patients is not reported, we display the closest metric (patients ventilated or in critical condition).
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Excess mortality: Deaths from all causes compared to average over previous years

The percentage difference between the reported number of weekly or monthly deaths in 2020–2022 and the average number of deaths in the same period over the years 2015–2019. The reported number might not count all deaths that occurred due to incomplete coverage and delays in reporting.

[+ Add country](#)



Source: Human Mortality Database (2021), World Mortality Dataset (2021)

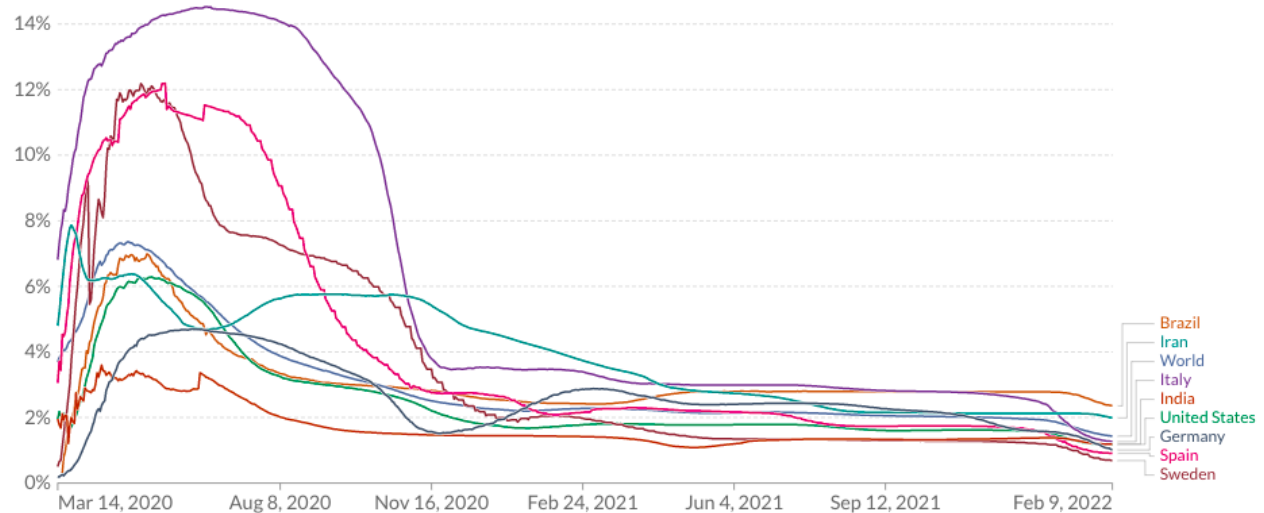
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Note: Comparisons across countries are affected by differences in the completeness of death reporting. Details can be found at our Excess Mortality page.

Case fatality rate of COVID-19

The case fatality rate (CFR) is the ratio between confirmed deaths and confirmed cases. The CFR can be a poor measure of the mortality risk of the disease. We explain this in detail at [OurWorldInData.org/mortality-risk-covid](https://ourworldindata.org/mortality-risk-covid)

[LINEAR](#) [LOG](#)



Source: Johns Hopkins University CSSE COVID-19 Data

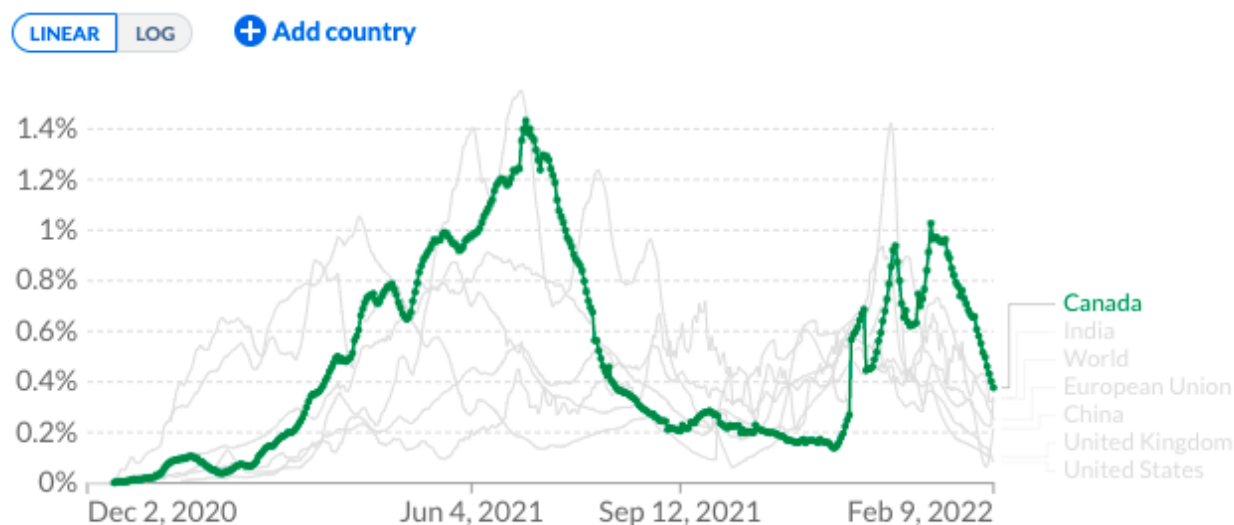
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Daily share of the population receiving a COVID-19 vaccine dose

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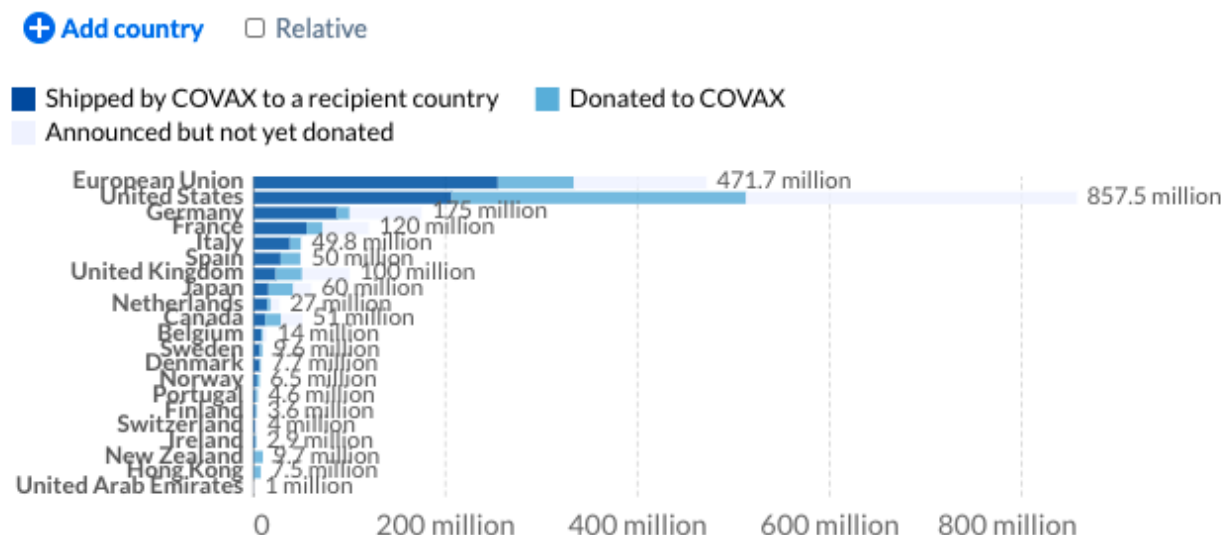
7-day rolling average. All doses, including boosters, are counted.



COVID-19 vaccine doses donated to COVAX

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Doses donated to the COVAX initiative by each country. Donations are broken down by whether they have been only announced, donated to COVAX, or shipped to a recipient country.

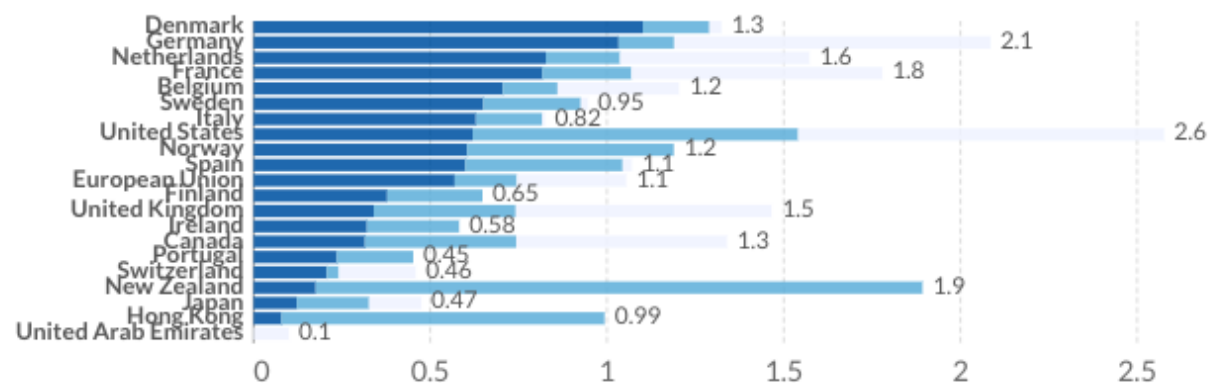


COVID-19 vaccine doses donated to COVAX, per capita

Doses donated to the COVAX initiative by each country, per person living in the donating country. Donations are broken down by whether they have been only announced, donated to COVAX, or shipped to a recipient country.

[+ Add country](#)

■ Shipped by COVAX to a recipient country
 ■ Donated to COVAX
 ■ Announced but not yet donated



Source: COVAX, ACT-Accelerator Hub. Data as of February 3, 2022.

OurWorldInData.org/coronavirus • CC BY

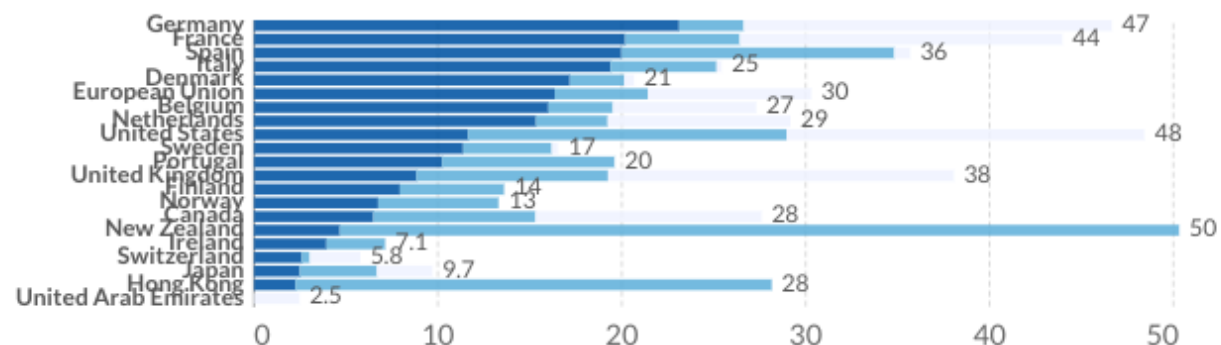
Note: COVAX is a worldwide initiative aimed at equitable access to COVID-19 vaccines. It is directed by Gavi, CEPI, and the WHO. Gross domestic product is expressed in U.S. Dollars; it is sourced from the World Bank and OECD.

COVID-19 vaccine doses donated to COVAX, per million dollars of GDP

Doses donated to the COVAX initiative by each country, per million dollars of GDP of the donating country. Donations are broken down by whether they have been only announced, donated to COVAX, or shipped to a recipient country.

[+ Add country](#)

■ Shipped by COVAX to a recipient country
 ■ Donated to COVAX
 ■ Announced but not yet donated



Source: COVAX, ACT-Accelerator Hub. Data as of February 3, 2022.

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Note: COVAX is a worldwide initiative aimed at equitable access to COVID-19 vaccines. It is directed by Gavi, CEPI, and the WHO. Gross domestic product is expressed in U.S. Dollars; it is sourced from the World Bank and OECD.



Country ↓½	Unvaccinated and not willing to get vaccinated percent			
	Dec 15, 2020 ↓≡	Jan 15, 2022 ↓≡	Absolute Change ↓≡	Relative Change
Australia	Mar 15, 2021 ① 27.72%	13.06%	-14.66 pp	
Canada	31.35%	10.94%	-20.41 pp	
Denmark	30.47%	13.62%	-16.85 pp	
France	Jan 15, 2021 ① 46.53%	15.83%	-30.70 pp	
Germany	Jan 15, 2021 ① 30.72%	19.58%	-11.14 pp	
Italy	Jan 15, 2021 ① 26.23%	13.13%	-13.10 pp	
Japan	Mar 15, 2021 ① 21.43%	12.90%	-8.53 pp	
Netherlands	Jan 15, 2021 ① 20.14%	17.96%	-2.18 pp	

Cancellation of public events during COVID-19 pandemic, Feb 10, 2022

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There may be sub-national or regional differences in policies on event cancellations. The policy categories shown may not apply at all sub-national levels. A country is coded as 'required' if at least some sub-national regions have required cancellations.

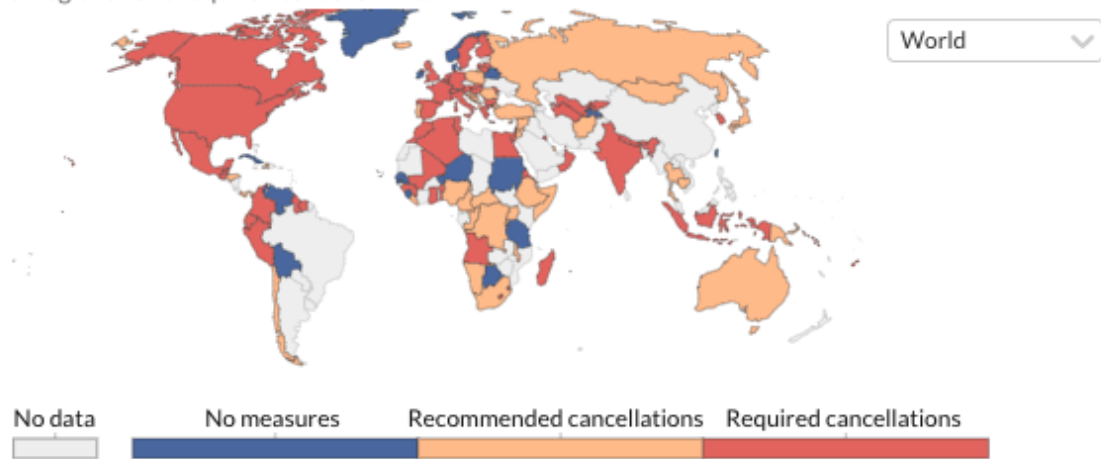


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