

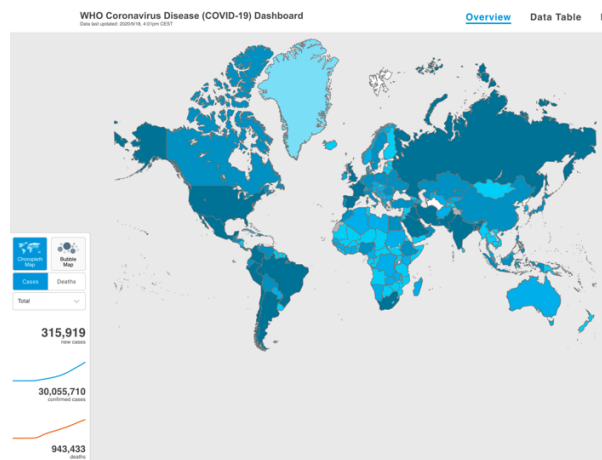
List of Current Resources on COVID-19 and Other Issues of Pandemics

(Many of these are interactive maps—layers of information will pop up as you move your cursor.)

World COVID-19 Stats <https://ncov2019.live/>



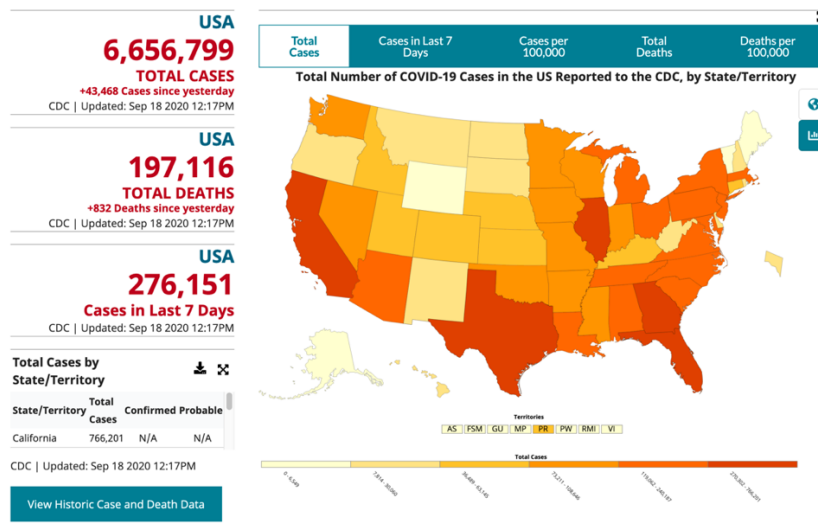
WHO Coronavirus Disease (COVID-19) Dashboard <https://covid19.who.int/>



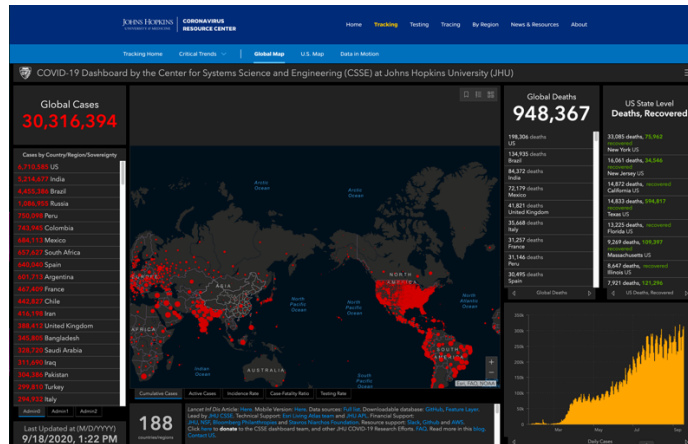
CDC COVID Data Tracker https://covid.cdc.gov/covid-data-tracker/#cases_totalcases

United States COVID-19 Cases and Deaths by State

Reported to the CDC since January 21, 2020



John Hopkins: Coronavirus Resource Center <https://coronavirus.jhu.edu/map.html>



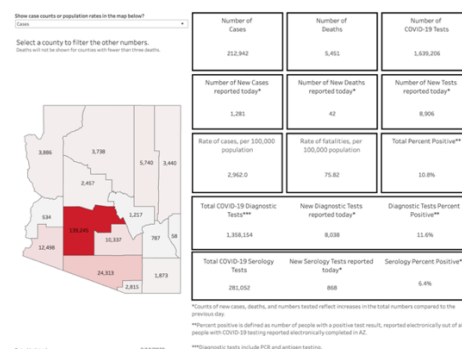
Esri CovidPulse

https://livingatlas.arcgis.com/covidpulse/?adumkts=marketing&aduc=email&adum=drip&aduSF=email&utm_Source=email&aduca=dg_covid_19_drp&adut=1255344-Covid-Pulse-Map&adupt=lead_gen&sf_id=7015x000001CC8LAAW&aducp=simple_body_text#@=-94.464,40.252,3

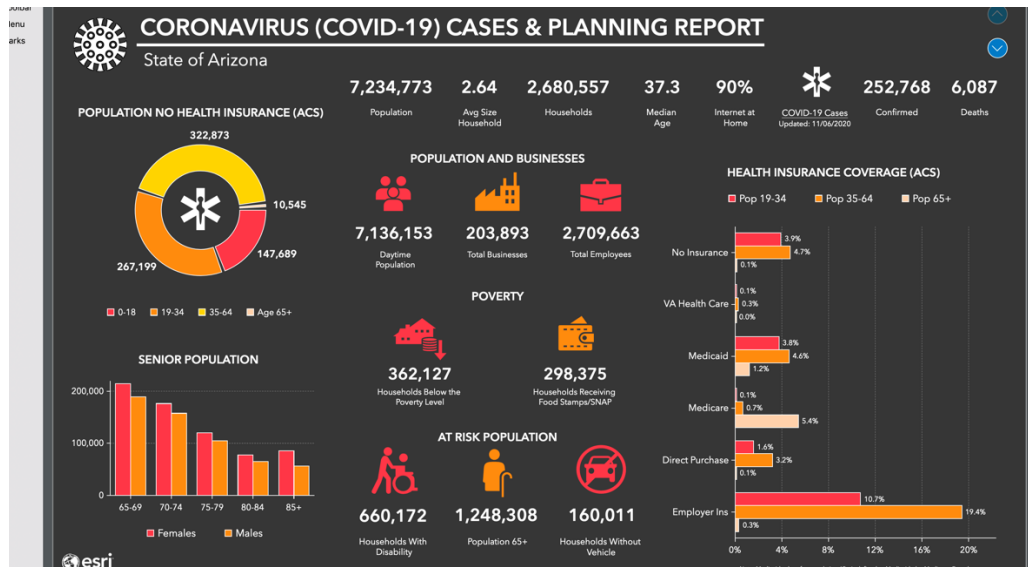


AZ Dept of Health Services Data Dashboard <https://www.azdhs.gov/preparedness/epidemiology-disease-control/infectious-disease-epidemiology/covid-19/dashboards/index.php>

Summary



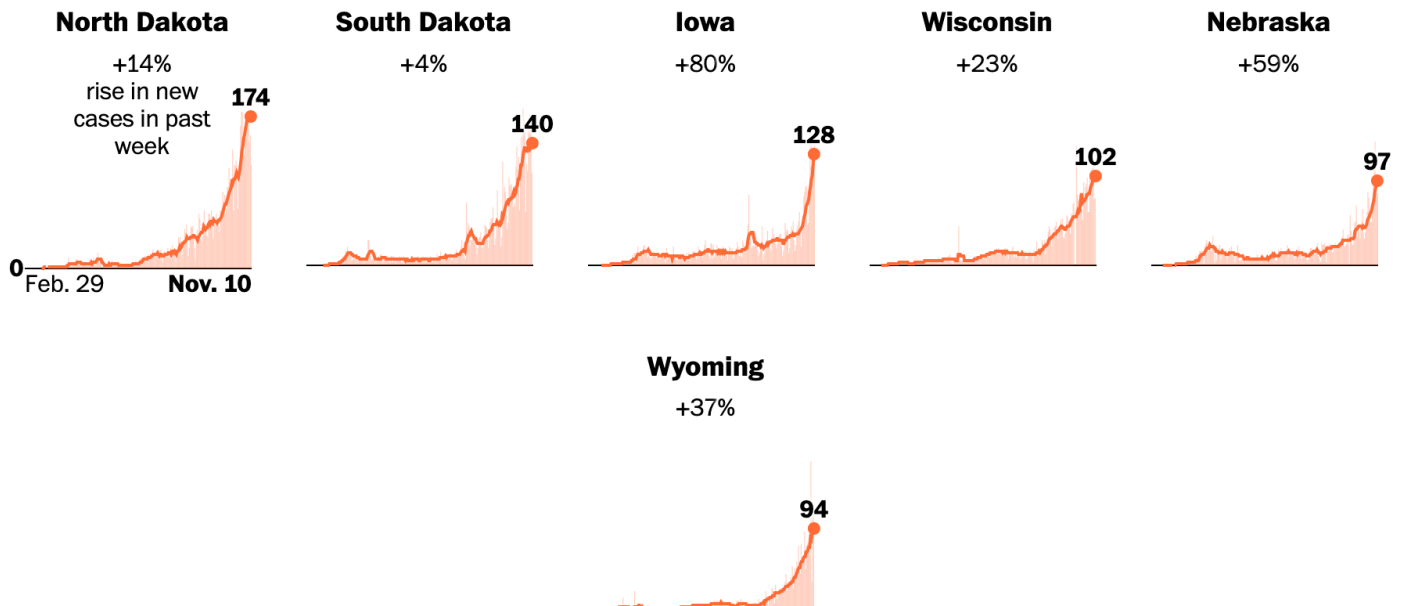
ArcGIS COVID-19 Index for the United States (System of Systems) https://disasterresponse.maps.arcgis.com/apps/opsdashboard/index.html?utm_source=DailyGeo&utm_campaign=2cc11bebf3-DailyGeo_4_19_18_COPY_05&utm_medium=email&utm_term=0_14c41df158-2cc11bebf3-138981949#/7aeac695cafa4065ba1505b1cfa72747



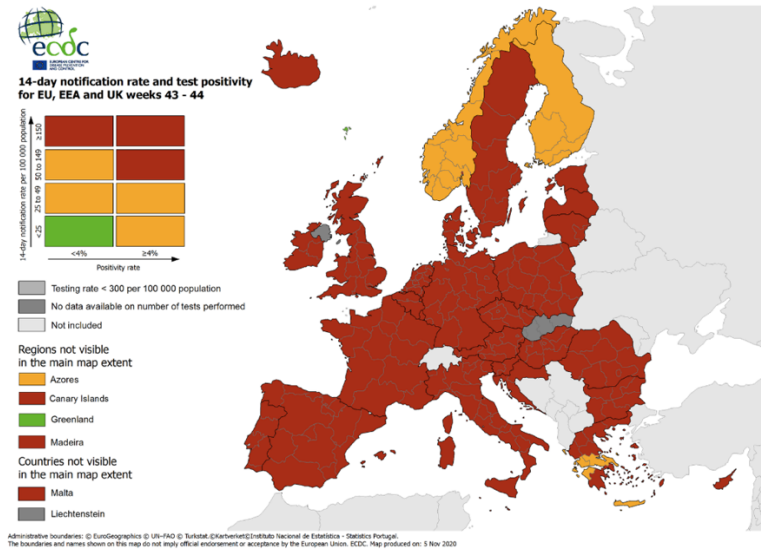
Washington Post Updates https://www.washingtonpost.com/graphics/2020/national/coronavirus-us-cases-deaths/?utm_source=DailyGeo&utm_campaign=5f1cfd4240-DailyGeo_4_19_18_COPY_05&utm_medium=email&utm_term=0_14c41df158-5f1cfd4240-138981949

Places with highest daily reported cases per capita

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

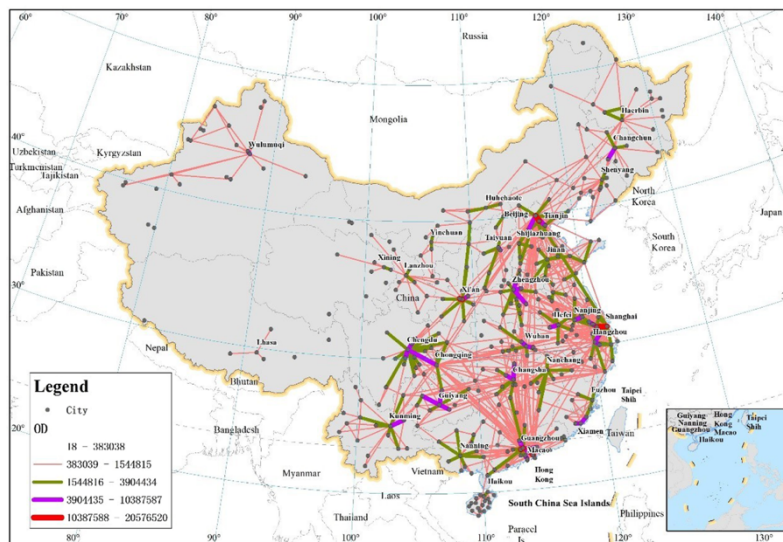


StopLight Approach to Travel (red = 2 weeks isolation with no movement, yellow = no isolation if negative Covid test 3 days prior to travel, and green = no restrictions on travel) https://covid19-surveillance-report.ecdc.europa.eu/?utm_source=DailyGeo&utm_campaign=a49bb05e4c-DailyGeo_4_19_18_COPY_05&utm_medium=email&utm_term=0_14c41df158-a49bb05e4c-138981949

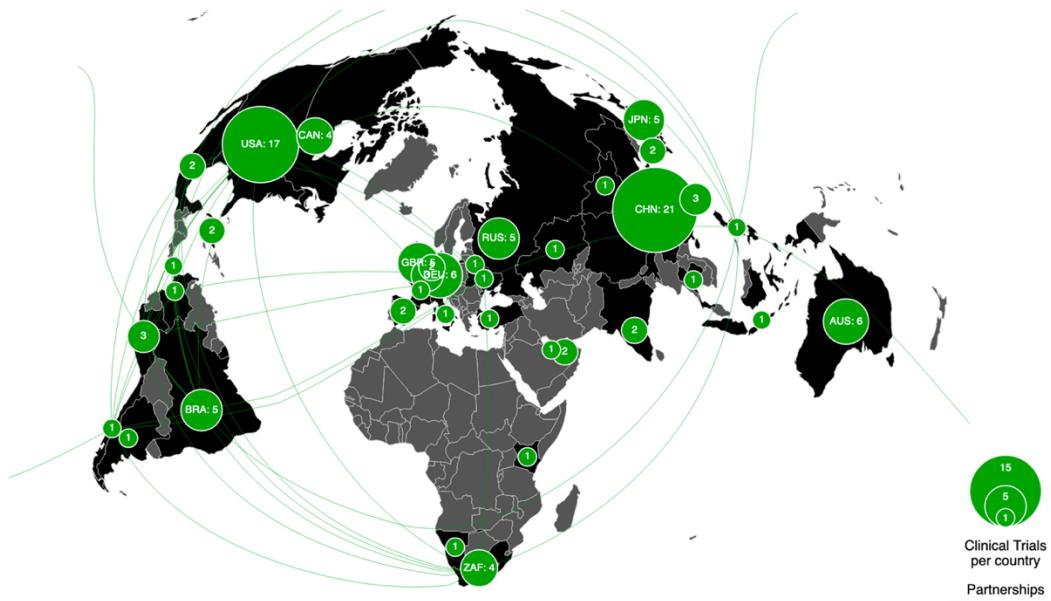


Tracking Movement—epidemic control based on migration data

https://www.nature.com/articles/s41599-020-00633-5/figures/1?utm_source=DailyGeo&utm_campaign=fb33e359b6-DailyGeo_4_19_18_COPY_05&utm_medium=email&utm_term=0_14c41df158-fb33e359b6-138981949



Mapping the development of a vaccine https://covid-nma.com/vaccines/mapping/?utm_source=DailyGeo&utm_campaign=9a13d1bd01-DailyGeo_4_19_18_COPY_01&utm_medium=email&utm_term=0_14c41df158-9a13d1bd01-138981949



▼ Table

Show full table

Vaccine (per arm)	Sample size	Type of vaccine	Phase	Funding	Reg. number
(1) mRNA-1273 vs (2) mRNA-1273	600	RNA based vaccine	Phase 2	ModernaTX, Inc.	NCT04405076
(1) ChAdOx1 nCoV-19 vaccine	10260	Non replicating viral vector	Phase 2 / Phase 3	University of Oxford	NCT04400838
(1) LNP-nCoVsaRNA vs (2) LNP-nCoVsaRNA vs (3) LNP-nCoVsaRNA	320	RNA based vaccine	Phase 1	1. Medical Research Council (UK) 2. UK Research and Innovation (UK)	ISRCTN17072692
(1) SARS-CoV-2 vaccine vs (2) SARS-CoV-2 vaccine vs (3) SARS-CoV-2 vaccine	942	Inactivated virus	Phase 1 / Phase 2	Chinese Academy of Medical Sciences	NCT04412538
(1) ChAdOx1 nCoV-19 vaccine	2000	Non replicating viral vector	Phase 3	University of Oxford	ISRCTN89951424
(1) Ad26COVS1 vs (2) Ad26COVS1 vs (3) Ad26COVS1	1045	Non replicating viral vector	Phase 1 / Phase 2	Janssen Vaccines & Prevention B.V.	NCT04436276

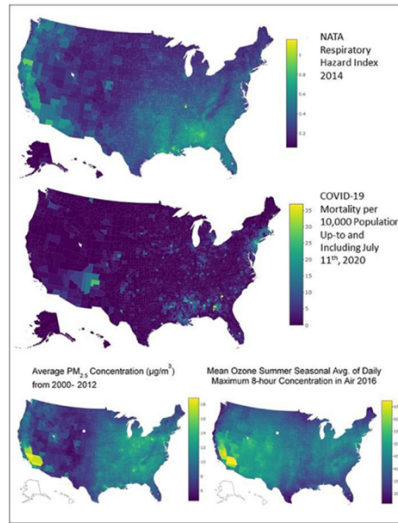
Mapping the novel coronavirus pandemic (Story Map)

<https://storymaps.arcgis.com/stories/4fdc0d03d3a34aa485de1fb0d2650ee0>



Hazardous air pollutant exposure as a contributing factor to COVID-19 mortality in the United States

https://iopscience.iop.org/article/10.1088/1748-9326/abaf86?utm_source=DailyGeo&utm_campaign=b3839ec422-DailyGeo_4_19_18_COPY_01&utm_medium=email&utm_term=0_14c41df158-b3839ec422-138981949#erlabaf86f1

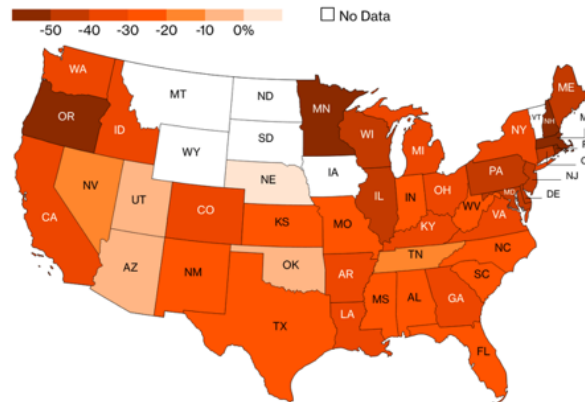


What We Actually Know About How Americans Are Moving During Covid

https://www.bloomberg.com/news/articles/2020-09-16/the-truth-about-american-migration-during-covid?cmpid=BBD091620_CITYLAB&utm_medium=email&utm_source=newsletter&utm_term=200916&utm_campaign=citylabdaily&utm_source=DailyGeo&utm_campaign=73f18212d1-DailyGeo_4_19_18_COPY_01&utm_medium=email&utm_term=0_14c41df158-73f18212d1-138981949

Change In Moves

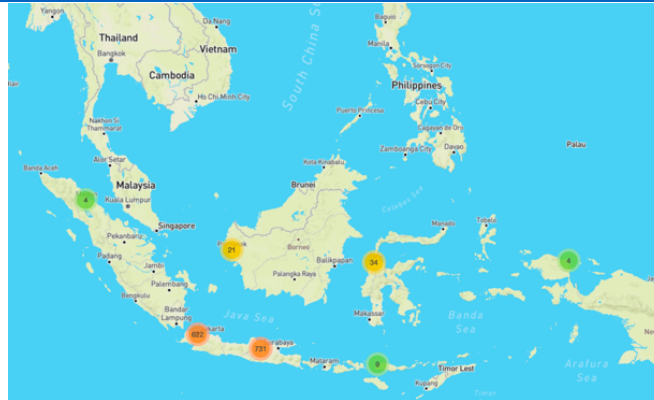
Percentage drop in moves between March 11 and June 30 compared to last year



Source: Hire A Helper
Note: States with no data have less than 100 moves recorded for 2020

Handwashing Stations in Indonesia

https://handwashing-station.usahidi.io/views/map?utm_source=DailyGeo&utm_campaign=09840c59e7-DailyGeo_4_19_18_COPY_01&utm_medium=email&utm_term=0_14c41df158-09840c59e7-138981949



Disease Detectives of Lebanon

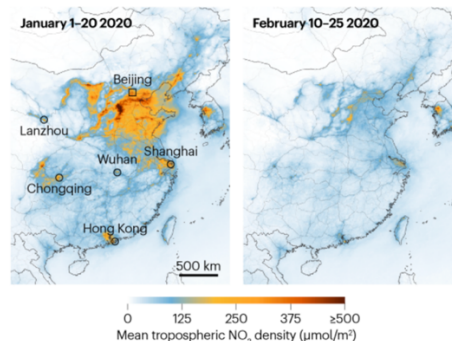
<https://www.aramcoworld.com/Articles/July-2020/Disease-Detectives-of-Lebanon>



The coronavirus pandemic in five powerful charts <https://www.nature.com/articles/d41586-020-00758-2>

CLEANER AIR

Measures to contain the coronavirus outbreak seem to have reduced nitrogen dioxide pollution across China.



©nature

Source: NASA Earth Observatory

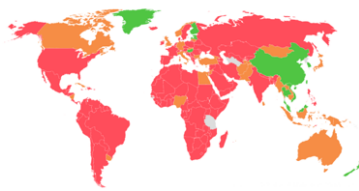
Health Equity Considerations and Racial Ethnic Minority Groups <https://www.cdc.gov/coronavirus/2019-ncov/community/health-equity/race-ethnicity.html>

Traffic Light Model for Foreign Travel (Finland produced map)

https://img.yle.fi/uutiset/osasto/news/article11513174.ece/ALTERNATES/w580/2020_08_26_NEWS_Liikennemerkkimalli_matkustus_THL_maailma.png?utm_source=DailyGeo&utm_campaign=62c826efa3-DailyGeo_4_19_18_COPY_01&utm_medium=email&utm_term=0_14c41df158-62c826efa3-138981949

Traffic light model to help evaluating foreign travel

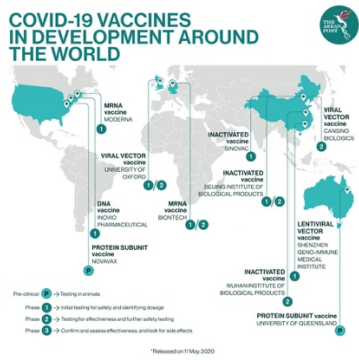
Source: THL, ECDC



- GREEN: risk of infection is not significantly higher than in Finland
- AMBER: Risk of infection is higher than in Finland
- RED: Risk of infection is considerably higher than in Finland, or infection figures are not reliable

COVID-19 Vaccine Development https://theasianpost.com/article/are-we-any-closer-covid-19-vaccine?utm_source=DailyGeo&utm_campaign=1fd95d5e44-DailyGeo_4_19_18_COPY_01&utm_medium=email&utm_term=0_14c41df158-1fd95d5e44-138981949

https://theasianpost.com/article/are-we-any-closer-covid-19-vaccine?utm_source=DailyGeo&utm_campaign=1fd95d5e44-DailyGeo_4_19_18_COPY_01&utm_medium=email&utm_term=0_14c41df158-1fd95d5e44-138981949

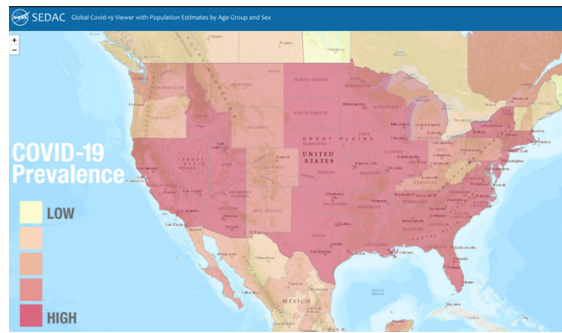


Predicting COVID-19

https://imperialcollegelondon.github.io/covid19local/?utm_source=DailyGeo&utm_campaign=ecb1398964-DailyGeo_4_19_18_COPY_01&utm_medium=email&utm_term=0_14c41df158-ecb1398964-138981949



NASA Global COVID-19 Viewer https://ubique.americangeo.org/wp-content/uploads/2020/09/sedac-covid19-totalprev-25sep2020.jpg?utm_source=DailyGeo&utm_campaign=265ff13724-DailyGeo_4_19_18_COPY_01&utm_medium=email&utm_term=0_14c41df158-265ff13724-138981949



Tracing Trump’s Contacts Before He Tested Positive

https://www.nytimes.com/interactive/2020/10/02/us/politics/trump-contact-tracing-covid.html?login=email&auth=login-email&utm_source=DailyGeo&utm_campaign=e11741b49e-DailyGeo_4_19_18_COPY_01&utm_medium=email&utm_term=0_14c41df158-e11741b49e-138981949



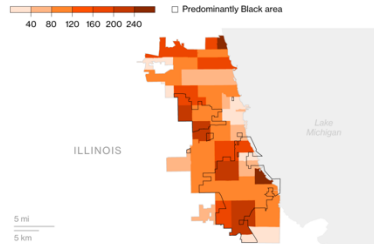
Tracing Trump’s Contacts Before He Tested Positive for Coronavirus



Mapping the Disparities that Bred an Unequal Pandemic https://www.bloomberg.com/news/articles/2020-09-30/mapping-the-disparities-of-chicago-s-unequal-pandemic?srnd=citylab&sref=aGTrSb9U&utm_source=DailyGeo&utm_campaign=0d39058e86-DailyGeo_4_19_18_COPY_01&utm_medium=email&utm_term=0_14c41df158-0d39058e86-138981949

Coronavirus Deaths

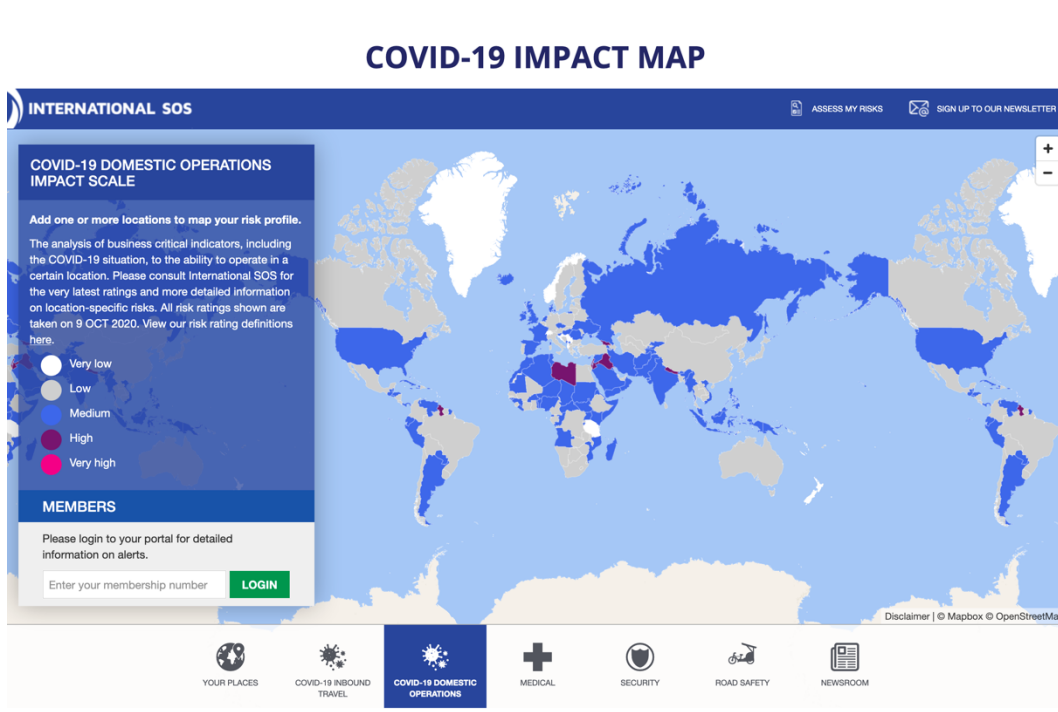
Covid death rate per 100K people as of September 8, 2020



Source: City of Chicago
Note: Data are represented by ZIP code

In the Chicago area, Black residents are more than twice as likely to die of the coronavirus as their white counterparts. A number of factors are likely contributing to this inequality.

COVID-19 Impact Map https://www.internationalsos.com/medical-and-security-services/covid-19?utm_source=DailyGeo&utm_campaign=9f3de9dba6-DailyGeo_4_19_18_COPY_01&utm_medium=email&utm_term=0_14c41df158-9f3de9dba6-138981949



Covid Testing Mapped https://www.msn.com/en-in/asia/asia-top-stories/china-to-test-whole-city-of-9m-as-europe-rolls-out-new-virus-rules/ar-BB19VJtQ?li=AAggbRN#image=BB19VJtQ_1|3 October 12, 2020

China Entire City to be Tested

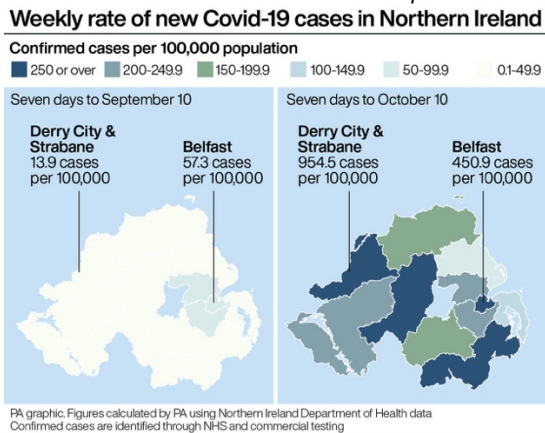
A minor outbreak of COVID-19 has occurred in the port city of Qingdao in China's Shandong Province. Chinese authorities aim to test all nine million residents within five days in an unprecedented testing drive in response to the outbreak. The confirmation of six cases of COVID-19 in the city prompted the Chinese government to announce their first mass testing in months. This map by AFP shows the location of Qingdao in northeastern China. The virus, which first emerged in China last year, has been brought relatively under control there, in contrast to most other countries. The availability of rapid tests and swift lockdowns have prevented secondary waves of the virus and recently allowed for hundreds of millions of Chinese to travel across the country in celebration of their 'Golden Week' holiday.

This map depicts the city of Qingdao in China where authorities aim to test more than nine million residents within five days following a minor outbreak of COVID-19. Click on the map to learn more.

Circuit-Breaker Lockdown Imposed

Northern Ireland will go into a four-week “circuit breaker” lockdown in an attempt to curb the huge rise in COVID-19 infections there. The new measures will include the closures of pubs, restaurants, and schools and will last for at least four weeks. The Derry City and Strabane Council area has been experiencing the highest infection rate in the United Kingdom and Ireland. This by uses data from the Northern Ireland Department of Health and shows the month-to-month increase in confirmed COVID-19 cases between September and October. The idea of a “circuit-breaker” lockdown is to interrupt the flow of the virus and allow time for a longer-term plan to be put in place. The shutdown requires people to sever contact with others outside their own household and shuts non-essential businesses. Several countries have already implemented "circuit-breaker" lockdowns to varying levels of success, including Israel, New Zealand, and Singapore.

This map depicts the weekly rate of new COVID-19 cases in Northern Ireland between September and October 2020. Click on the map to learn more.

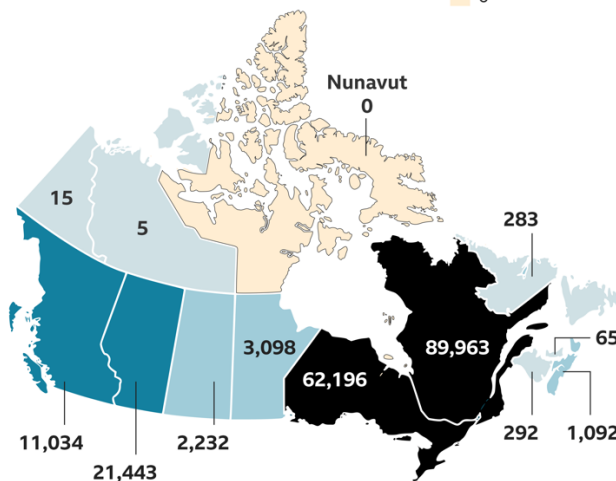


Total number of cases in Canada by province

https://www.bbc.com/news/world-us-canada-54405736?utm_source=DailyGeo&utm_campaign=e3a212b00b-DailyGeo_4_19_18_COPY_01&utm_medium=email&utm_term=0_14c41df158-e3a212b00b-138981949

[DailyGeo 4 19 18 COPY 01&utm_medium=email&utm_term=0_14c41df158-e3a212b00b-138981949](https://www.bbc.com/news/world-us-canada-54405736?utm_source=DailyGeo&utm_campaign=e3a212b00b-DailyGeo_4_19_18_COPY_01&utm_medium=email&utm_term=0_14c41df158-e3a212b00b-138981949)

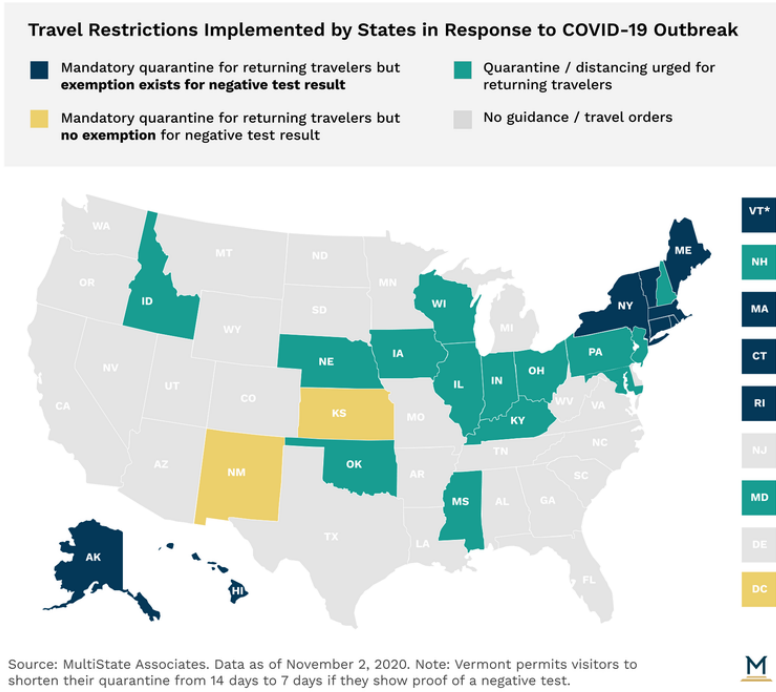
Total number of cases in Canada by province



Source: Government of Canada (data up to 15 October)

BBC

Covid Policy Tracker https://www.multistate.us/issues/covid-19-policy-tracker?utm_source=DailyGeo&utm_campaign=e6f27864b1-DailyGeo_4_19_18_COPY_05&utm_medium=email&utm_term=0_14c41df158-e6f27864b1-138981949






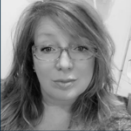




Lost on the Frontline

https://www.theguardian.com/us-news/ng-interactive/2020/aug/11/lost-on-the-frontline-covid-19-coronavirus-us-healthcare-workers-deaths-database?utm_source=DailyGeo&utm_campaign=af3b2360c6-DailyGeo_4_19_18_COPY_05&utm_medium=email&utm_term=0_14c41df158-af3b2360c6-138981949

1361

US healthcare worker deaths are under investigation by the Guardian and KHN.

Did they have to die?

As of 4 November, our journalists have profiled **250** health workers and included them in our database. Read their stories below.

Confirmed deaths by occupation

Select an occupation ▼

Confirmed deaths by race and ethnicity

Total deaths % of total deaths

Confirmed deaths by state

Select a state ▼

Work by Dr. Helen Hazen (April 2020)



Complete Journal Article can be found at:

<https://www.tandfonline.com/doi/full/10.1080/19338341.2020.1764375>

Note: We realize that many of these sites have outdated information; however, some of them are updating the information on a regular basis. These serve not as a complete list of resources but a starting point for student research. We have tried to provide only free access sites (requiring no subscription) which resulted in many U.S. news sites being eliminated. ☹️

PANDEMICS (IN GENERAL AND RELATION TO GEOGRAPHY)

WIRED. April 24, 2020. "Amid pandemic, geography returns with a vengeance."

<https://www.wired.com/story/amid-pandemic-geography-returns-with-a-vengeance/>

Callaway, E., et al. 2020. The coronavirus pandemic in five powerful charts. Nature.

<https://www.nature.com/articles/d41586-020-00758-2>

CDC. 2020. "Coronavirus (COVID-19)." <https://www.cdc.gov/coronavirus/2019-ncov/index.html>

Imperial College London. 2020. "COVID-19 reports." <http://www.imperial.ac.uk/mrc-global-infectious-disease-analysis/covid-19/>

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<https://www.visualcapitalist.com/history-of-pandemics-deadliest/>

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<https://www.bbc.com/future/article/20181120-what-if-a-deadly-influenza-pandemic-broke-out-today>

BBC. March 25, 2020. "Covid-19: The history of pandemics." <https://www.bbc.com/future/article/20200325-covid-19-the-history-of-pandemics>

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<https://doi.org/10.1038/nature06536>

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1965. [https://doi.org/10.1016/S0140-6736\(12\)61684-5](https://doi.org/10.1016/S0140-6736(12)61684-5)

Walters, J. 2014. Seven modern plagues and how we are causing them. Washington, DC: Island Press.

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CDC. 2020. "One Health." <https://www.cdc.gov/onehealth/index.html>

HEI

NPR. April 14, 2020. "Where did this coronavirus originate? Virus hunters find genetic clues in bats."

<https://www.npr.org/2020/04/14/834109166/where-did-the-coronavirus-originatevirus-hunters-find-genetic-clues-in-bats>

BBC. April 6, 2020. "Coronavirus: Putting the spotlight on the global wildlife trade."

<https://www.bbc.com/news/science-environment-52125309>

National Geographic. April 14, 2020. "'Wet markets' likely launched the coronavirus. Here's what you need to know."

<https://www.nationalgeographic.com/animals/2020/04/coronavirus-linked-to-chinese-wet-markets/>

BBC. March 25, 2020. "Coronavirus slowdown in US seen from space."

<https://www.bbc.com/news/world-51948578>

BBC. March 19, 2020. "Coronavirus: Air pollution and CO2 fall rapidly as virus spreads."

<https://www.bbc.com/news/science-environment-51944780>

BBC. May 20, 2020. "The wild animals at risk in lockdown."

<https://www.bbc.com/future/article/20200520-the-link-between-animals-and-covid-19>

MOVEMENT

Columbia University. "Severe Covid-19 risk mapping."

<https://columbia.maps.arcgis.com/apps/webappviewer/index.html?id=ade6ba85450c4325a12a5b9c09ba796c>

NPR. March 16, 2020. "Tracking the pandemic: How quickly is the coronavirus spreading state by state."

<https://www.npr.org/sections/health-shots/2020/03/16/816707182/map-tracking-the-spread-of-the-coronavirus-in-the-u-s>

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<https://www.washingtonpost.com/graphics/2020/world/corona-simulator/>

Visual Capitalist. March 16, 2020. "Infection trajectory: See which countries are flattening their Covid-19 curve."

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<https://www.washingtonpost.com/graphics/2020/health/coronavirus-how-epidemics-spread-and-end/>

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<https://www.bbc.com/news/av/health-52008673/coronavirus-update-why-does-staying-at-home-help>

NPR. April 14, 2020. "How contact tracing can help fight coronavirus."

<https://www.npr.org/sections/health-shots/2020/04/14/833726999/how-contact-tracing-can-help-fight-coronavirus>

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<https://www.bbc.com/future/article/20200422-how-disease-outbreaks-are-contained>

World Economic Forum. 2020. "There's only one option for a global coronavirus exit strategy."

<https://www.weforum.org/agenda/2020/04/there-s-only-one-option-for-a-global-coronavirus-exit-strategy/>

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<https://hbr.org/2020/04/how-digital-contact-tracing-slowed-covid-19-in-east-asia>

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BBC. April 16, 2020. "Coronavirus: NHS contact tracing app to target 80% of cell phone users."

<https://www.bbc.com/news/technology-52294896>

BBC. April 21, 2020. "Coronavirus: Apple and France in standoff over contact-tracing app."

<https://www.bbc.com/news/technology-52366129>

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<https://www.dw.com/en/coronavirus-tracking-apps-how-are-countries-monitoring-infections/a-53254234>

Google. Covid-19 community mobility reports.

<https://www.google.com/covid19/mobility/>

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<https://www.bbc.com/news/world-asia-india-52276606>

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