

Introduction

This is a living document with continuously-updated, chronologically-sorted links to the news stories and information repositories that [Open Source Resilience](#) uses to make observations and predictions about COVID19's effects on global society.

If you have leads or suggestions for us, please send them to info@opensourceresilience.org.

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General Resources

- April 14, 2020: [Helpful comparison between COVID19, swine flu, MERS, SARS, and other pandemics that haven't had nearly the same societal effects](#)
- May 6, 2020: [An well-sourced, incredibly informative article about the biological risks of COVID19 transmission \(and how to personally avoid them\) that everyone should read; includes examples of transmission events at restaurants, workplaces, choirs, indoor sports, birthday parties, and funerals.](#)
- May 6, 2020: [The New York Times created a model of **business density and visit duration** using cell phone data to help predict potential **superspreader outbreak locations** and help customers manage their risks.](#)

Guides

- [A worksheet created by Open Source Resilience that helps households **get on the same page** and **reduce tension** while under shelter-in-place orders during the pandemic.](#)
- [A helpful worksheet to help people think through and prepare for the disruptive societal effects of COVID19.](#)
- [Digital security tips for protests.](#)
- August 10, 2020: [A manual of physical distancing in the built environment, as produced by architects and scientists at Princeton working on how aerosols are spread indoors and outdoors.](#)

Historical Analogs

- Continuously updated: [Historical viewpoints of previous global pandemics and other interrelated global crises.](#)

Modeling/Simulation Tools

- Undated: [A pandemic simulator called **What Happens Next** that teaches you about epidemiology, shows you the result of different infectiousness levels in a population, illustrates the effectiveness of policy changes like shelter-in-place, and gives you a sense of timeline around reopening/locking down.](#)
- Undated: [COVID Crush lets you simulate different methods of approaching social distancing, like sheltering in place alone, having friends visit your house every so often, and more.](#)

PPE

- Continuously updated: [Open Source Medical Supplies](#) has guides for how to **make your own PPE** and other supplies, and resources for how to form your own distributed manufacturing networks for making medical supplies.
- April 1, 2020: [3M has emergency recommendations for proper reuse of N95s and other PPE.](#)
- April 13, 2020: [CDC DIY cloth mask recommendations](#)
- June 16, 2020: [Some doctors are now suggesting community adoption of face shields, as they protect against droplets hitting people's eyes.](#)

Research

- Undated: [Nextstrain is tracking COVID19 evolution and mutation](#) in real time across the globe
- Undated: [The Regulatory Affairs Professionals Society is tracking COVID19 vaccine development efforts](#) across the world in real time.
- Undated: [A timeline of the development of coronavirus starting in December 2019, with links to news stories.](#)

COVID19 Itself

Description

- March 10, 2020: [10% of the people who get COVID19 end up hospitalized for respiratory failure; the true danger of the pandemic is overwhelming hospital systems.](#)
- [Recovered patients have permanently-reduced lung function.](#)
- ~~March 12, 2020: [Average incubation period is estimated to be between 3-5 days.](#)~~
 - Strikethrough'd because source below appears to be more accurate.
- March 13, 2020: [Recent updates have shown median presymptomatic incubation periods to be 5.1 days, average incubation periods to be 5.5 days, and 97.5% of people to have incubation periods of 11.5 days or fewer. Fewer than 2.5% of people were symptomatic within 2.2 days.](#)
- April 7, 2020: [Los Alamos National Labs estimates an average R0 of 5.7 in a non-peer-reviewed paper, far higher than previous estimates](#)
- April 7, 2020: [The course of the virus itself varies between 14 and 56 days post-symptom development.](#)
- April 10, 2020: [Initial estimates of required herd immunity are over 70% of the population.](#)

- April 13, 2020: [This column lists 48 unanswered questions we still have about COVID19, that will all have a role to play in determining when and how we reopen.](#)
- April 21, 2020: [COVID19 appears to be attacking blood vessel walls throughout the body, for unclear reasons.](#)
- April 21, 2020: [COVID19 patients \(36.4%, n=214\) are displaying neurologic issues as a result of infections for unclear reasons, including: dizziness, headache, impaired consciousness, acute cerebrovascular disease, ataxia, seizure, taste impairment, smell impairment, visual impairment, and nerve pain.](#)
- April 22, 2020: [Doctors from all over the world are seeing unprecedented levels of blood clotting in COVID19 patients.](#)
- April 22, 2020: [COVID19 appears to be causing strokes in young people in their 30s and 40s who have otherwise mild cases.](#)
- April 23, 2020: [A study of the Northwell Hospital System in New York captured all of the COVID19 cases in a month, and studied broad outcome trends from 2,643 of them; it confirms that hospitalized patients skew older \(median of 63\), men are impacted more than women, over half had hypertension, 40% were clinically obese, 33% had diabetes, 88% of those who were on a ventilator died.](#)
- April 26, 2020: [We still don't know exactly how COVID19 is killing us; 70% of patients sick enough to be admitted to New York's largest hospital system didn't have fevers, only 11-40% have shortness of breath, only 8-14% have headaches, nausea and diarrhea are only present 3-17% of the time, etc. Ventilators don't appear to help significantly, with patients in New York dying up to 88% of the time after being put on ventilators. Science lists organs afflicted with the virus as the brain, eyes, nose, lungs, heart, blood vessels, livers, kidneys, and intestines; almost every organ we have. Clots can form in real time, strokes occur in a significant portion of patients, and we still have no idea what's going on.](#)
- April 27, 2020: [The CDC has added 6 symptoms of the coronavirus to its list, including: chills, repeated shaking with chills, muscle pain, headache, sore throat, and loss of taste/smell.](#)
- April 28, 2020: [The UK is worried about a childhood illness potentially linked to COVID19 that features inflammation and stomach problems.](#)
- May 5, 2020: [Los Alamos National Laboratory has just released a study showing a new, more-infectious, faster-spreading strain of coronavirus is rapidly becoming dominant around the globe.](#)
- May 14, 2020: [COVID-19 appears to be approximately 10x more lethal than the seasonal flu.](#)
- May 15, 2020: [Five sailors on the USS Theodore Roosevelt have developed COVID19 symptoms again after a significant period of rest and testing negative twice.](#)
- May 15, 2020: [Herd immunity estimates are still fluctuating, from as low as 10-20% in relatively distant populations, to as high as 70%, based on varying R values. Current projections indicate between 2.2-4.7% of Americans may have been exposed to coronavirus.](#)

- May 15, 2020: [Some patients \(between 5-7% of millions of people self-reporting symptoms via the Covid Symptom Tracker app\) are suffering from 'long-tail' forms of coronavirus that take multiple months for symptoms to resolve.](#)
- May 18, 2020: [145 children in New York City are reporting Kawasaki-like symptoms linked to coronavirus. It is being called multi-system inflammatory syndrome \(MIS-C\) and is characterized by persistent fever, irritability, sluggishness, abdominal pain, diarrhea, vomiting, rash, enlarged lymph nodes, red cracked lips/tongue, and swollen hands and feet.](#)
- May 28, 2020: [Indiana completed a 4,600-person, mostly-random serological test of its population and found 3% of the state's population had been exposed to COVID-19 - 11 times more than conventional selective testing had identified in the state. 45% of people reported having no symptoms at all. Indiana's mortality rate at the time was .58%, given the serological tests. Similarly, a New York antibody study found a mortality rate of .5%](#)
- June 13, 2020: [As many as 45% of COVID-19 infections may be asymptomatic, based on a new study from Scripps Research Translational Institute.](#)
- June 16, 2020: [The Infection Fatality Rate of COVID-19 appears to be between .5-1%, though this number has been challenging to find because cases of live virus significantly undercount population exposure due to asymptomatic and mildly symptomatic untested people.](#)
- June 19, 2020: [Wastewater analysis has revealed that coronavirus was in Italy by December 18, 2019. Chinese officials confirmed their first case of COVID-19 at the end of December, and Italy's first case was in mid-February. Similarly, a wastewater study in Spain found coronavirus there by mid-January, 40 days before the first case was discovered.](#)

Recovery

- April 13, 2020: [WHO officials say it's unclear whether recovered coronavirus patients **are immune to second infection.**](#)
- April 17, 2020: [The WHO is **not seeing broad evidence of antibodies developing** after COVID19 patients recover, and is **not seeing evidence that those antibodies offer full protection against reinfection.** In short, getting COVID19 does not preclude you from getting it again, and there isn't significant evidence suggesting herd immunity will develop.](#)
- April 18, 2020: [Not all patients are developing antibodies.](#)
- April 30, 2020: [Active virus has been found in the lungs of patients who have otherwise tested negative many consecutive times from nose and throat swabs. The patient in this story had cardiac arrest and died after being released and testing negative multiple times.](#)
- May 15, 2020: [5 sailors on the USS Theodore Roosevelt have tested positive for COVID19 a **second time**, after testing positive a first time, being quarantined for 14 days in Guam, **testing negative twice**, and returning to duty. They then developed](#)

["influenza-like" symptoms, reported to sick bay, and tested positive for COVID-19. The Navy is now quarantining 18 people total based on contact tracing.](#)

- June 12, 2020: [Many recovered coronavirus patients are facing respiratory issues months after the illness, with 50% surveyed being unable to exercise, and 60% unable to breathe as deeply as before.](#)
- June 18, 2020: [A preprint study of 1,470 coronavirus patients, 3,832 healthcare workers, and 19,555 general population members in Wuhan has found that 10% of COVID-19 patients "lost" their antibodies after recovery. The team has suggested antibodies may not be long-lasting.](#)

Testing

- March 16, 2020: [A summary of what went wrong in the early days of developing test kits for COVID-19, including the abrupt declaration of the EUA system and the CDC's production of a faulty test.](#)
- April 16, 2020: [America's COVID19 numbers are flat \(not exponentially growing\) **because we are not testing nearly enough.** Our test positivity rate is an order of magnitude higher than South Korea; it is currently 20%, and should be under 1% for a properly-tested population.](#)
- April 17, 2020: [Santa Clara just tested 3,300 people for exposure to the virus and found that **2.5-4.2% of people had antibodies,** which would mean there are **50-80x more infections than previously assumed** - which also implies that the virus has a much lower mortality rate than assumed.](#)
 - April 17, 2020: [Peer review indicates that this **may be explained by the false positive rate** of the test and/or by sample recruitment issues.](#)
- April 17, 2020: [The US has **stopped growing its testing capacity** \(150k tests/day\), even though infection rates are exponentially increasing. Harvard estimates **500-700k tests/day are necessary** to gather enough data to **reopen safely.**](#)
- April 17, 2020: [Vice President Pence **refuses to push for an increase in US testing capacity.**](#)
- April 20, 2020: [The White House is reluctant to increase testing capacity and believes **we have enough testing capacity** to reopen the economy, despite broad belief from state governors that there isn't enough.](#)
- April 21, 2020: [Paris sewers were sampled for coronavirus for 1 month, and researchers detected a rise and fall of coronavirus concentrations that mapped to case load. High concentrations were detected several days ahead of the first deaths in Paris.](#)
- April 23, 2020: [Andrew Cuomo says **21% of randomly-tested New Yorkers** have COVID19 antibodies.](#)
- April 26, 2020: [The global death toll could be **60% higher than currently believed** because of inadequate testing.](#)
- April 28, 2020: [The death tolls in 7 U.S. states are over **50% higher than the yearly average,** indicating potential significant undercounting of COVID-19 deaths.](#)

- April 28, 2020: [Weekly death registrations in England are now the highest on record, doubling the previous 5 year average for the week of April 17.](#)
- April 29, 2020: [COVID19 positivity by state, indicating which states are doing better or worse jobs at testing enough.](#)
- April 29, 2020: [Vietnam has tested so effectively it has only had **270 cases and no deaths, in a country of 96 million that borders China.** It has achieved this by conducting 791 tests per positive case \(.1% test positivity\) and very selectively quarantining populations \(only 82,000 people at any one time\). This data hasn't been independently confirmed, but calls to hospitals, morgues, and other related indicators have confirmed very low infection rates.](#)
- April 30, 2020: [The Capitol physician has said it doesn't have enough coronavirus tests to test the Senate when it comes back in session.](#)
- May 7, 2020: [Less than 50% of Massachusetts' contact tracing calls are being answered. Governor Baker has pleaded with the public to pick up the phone.](#)
- May 14, 2020: [The FDA has released an alert about an Abbott Laboratories test that has a false negative rate of as high as 48%.](#)
- May 16, 2020: [Serology tests of 36,000 randomly-selected households in Spain indicate that between 10-14% of Madrid and 7% of Barcelona has COVID19 antibodies \(for an average of 5% across the country\), even though Spain is one of the hardest-hit countries with a per-capita death rate higher than the US or Italy. Herd immunity is estimated to kick in around 60-70%. Spain has currently experienced 27,650 deaths.](#)
- May 19, 2020: [Chinese media estimated 500,000 coronavirus cases in Wuhan \(instead of the 50,000 officially reported\), and then the estimate was quickly deleted.](#)
- May 21, 2020: [The CDC is conflating serological testing \(if someone has been exposed to COVID-19\) and viral testing \(if someone currently has COVID-19\) and presenting case rates with combined figures. It is thus overstating the country's ability to test for COVID-19, and it is interfering with states' quantitative metrics for reopening. The Director of the Harvard Global Health Institute reacted with "you have got to be kidding me" when he heard the news.](#)
- June 25, 2020: [The CDC has stated there may be up to 10 times more cases of coronavirus in the US than reported after tracking blood samples across the country.](#)
- July 30, 2020: [Jared Kushner had a plan for a comprehensive national testing regime, developed by volunteers and experts from the diagnostic testing industry. It would include national coordination of testing, distributing supplies to every state and coordinating response. The plan included a call for massive scale-up of testing so Americans could get back to work. On April 27, President Trump announced an entirely different plan that shifted all burden onto states, likely because administration messaging was shifting to downplay the pandemic danger.](#)
 - [Further reporting suggests the testing plan may have also been scrapped because the pandemic was hitting Democratic states and populations more than Republican states and populations at the time.](#)

- August 18, 2020: [A deep dive into the 3 weeks in February where the CDC's COVID-19 tests weren't producing reliable results \(negative controls yielding positive results, etc.\). Eventually, the FDA approved non-CDC tests.](#)

Tracking

- Continuously updated: [State-by-state coronavirus tracking based on each state's positive tests per 100k people, ICU capacity, test positivity, and more by ProPublica.](#)
- Continuously updated: [State-by-state coronavirus caseload tracking based on each state's positive tests, by Johns Hopkins University.](#)
- Continuously updated: [State-by-state visualization of testing amount vs. positive results.](#)
- Continuously updated: [An interactive visualization that shows multiple countries, states, and territories on the same interactive axes, with specific graphs showing per capita growth rates to allow for apples to apples comparisons, powered by Johns Hopkins and other datasets.](#)
- Continuously updated: [Real-time tracking of Rt value across states, an epidemiological unit describing how quickly the virus is spreading. An Rt value of 1.0 means a sick person will infect 1 other person, and virus caseload will continue at its current size. An Rt value above 1.0 means the outbreak is growing, and an Rt value below 1.0 means the outbreak is slowing. Each graph is interactive and shows when shelter-in-place policies started and ended.](#)
- Continuously updated: [New York Times' real-time tracking of all 50 states' coronavirus cases, searchable by locality and demonstrable by national and state total cases, deaths, per capita, and maps.](#)
- May 16, 2020: [Grading each state's coronavirus response based on its performance since peak, case trajectory, and more.](#)
- May 19, 2020: [Florida removed their chief of COVID-19 data reporting after she refused to manually alter data to drum up support for reopening. Over the past few weeks, the dashboard has gone offline, data has disappeared without explanation, and its been difficult to access underlying datasets.](#)
- June 8, 2020: [14 states and Puerto Rico have hit the highest seven-day average of new coronavirus infections since the pandemic began.](#)
- June 10, 2020: [At least 28 states are undercounting COVID-19 cases by not following CDC guidelines on reporting 'probable cases' in their official tallies. Probable cases include those that show evidence of infection without the confirmation of a lab test, and cases where coronavirus was listed as a cause or contributing cause of death but not confirmed with a lab test. Some of the states with the largest populations - like California, Texas, Florida and New York - are among those listed as not reporting probable cases.](#)
- June 11, 2020: [There is growing evidence that COVID-19 deaths are being purposefully undercounted as 'mystery illness', code R00-R99. Historically, around 600-650 deaths per week in the US are considered 'mystery illnesses'; the average is now 4,000 mystery illnesses a week.](#)
 - [The CDC mystery illness data referenced in this post can be found here.](#)

- June 13, 2020: [New York is making the U.S.' coronavirus numbers far more optimistic than they are. If NY and NJ are excluded from national cases, it appears that the U.S. has stalled at 19,500 new cases per day.](#)
- June 15, 2020: [TIME has released a state-by-state snapshot of how most state cases are climbing again, even though the national rate appears even \(because of the success New York has had in reducing its caseload\). TIME explicitly mentions that a big component of this increase may be that the pandemic is not front-of-mind for Americans anymore, given recent news around the George Floyd protests. The article explicitly compares state results based on reopening policies and attitudes.](#)
- June 18, 2020: [Multiple Florida hospitals are now out of ICU beds. 75% of hospital beds statewide are occupied. Several Palm Beach county hospitals are full, and one Miami-Dade hospital is full.](#)
- June 20, 2020: [Arizona is now breaking records of new COVID cases per day every day, currently at 3,000 cases per day. Hospital bed utilization is at 85%, and test positivity has increased from 5% on May 10th to 19% on June 20th. The state only has 257 ICU beds remaining.](#)
- June 20, 2020: [Florida has broken records of new COVID cases per day for the past several days, and has now hit 4,049 cases per day; test positivity has increased from 2.6% two weeks ago to 12.4% today.](#)
- June 24, 2020: [Houston, TX is on track to run out of hospital bed capacity tomorrow.](#)
- June 24, 2020: [The CDC initially had a fatally flawed approach to containing the coronavirus, believing that if travelers from Wuhan \(and later China\) could be screened, the pandemic would never hit US shores. One day before the WHO declared a pandemic, the CDC stopped giving regular briefings about the virus, and didn't resume them until June. In the meantime, the agency discouraged masks, limited testing, and gave incorrect information about identifying the virus.](#)
- June 25, 2020: [Texas' largest hospital system, Houston's Texas Medical Center, has reached 100% ICU capacity. 28% of ICU beds are being used by COVID-19 patients, and 72% are being used by non-COVID patients.](#)
- June 25, 2020: [According to centered, 7-day-centered-average rates, the U.S. has just had its worst day of the pandemic \(as measured by new cases per day\) on June 23rd.](#)

Transmission

- March 24, 2020: [South Korea estimates that **30% of coronavirus infections are asymptomatic.**](#)
- March 25, 2020: [A single COVID-19 case \("Patient 31"\) is responsible for an outbreak of 5,080 COVID-19 infections linked to the Shincheonji Church in South Korea, via a church service of 1,000 people.](#)
- April 1, 2020: [**Virus dose** may be proportional to how sick people get.](#)
- April 3, 2020: [SARS-CoV-2 is now believed to be effectively spread by **airborne transmission** by some.](#)

- April 3, 2020: [Healthcare workers represent between 5 to 25% of all COVID19 cases in states across the US; CDC guidance is now that healthcare workers may remain on the job so long as they are not showing symptoms, though asymptomatic cases may represent 25-30% of all cases.](#)
- April 4, 2020: [Only .3% of outbreaks \(one person infecting 2 or more people\) in a recent, non-peer-reviewed Chinese contact tracing study resulted from outdoor interactions. The vast remainder of infections resulted from being indoors, primarily in homes and via transportation.](#)
- April 7, 2020: [95% of the population of the US \(42 states, DC, Guam, and Puerto Rico: 306 million people\) is now under stay-at-home orders.](#)
- April 8, 2020: [75% of the Washington choir group that decided to hold choir practice during the pandemic is now sick with COVID19, suggesting speech and singing in enclosed rooms transmits the virus.](#)
 - May 15, 2020: [Followup CDC study showing between 53-87% of those attending this single choir rehearsal came down with COVID19 as a result.](#)
- April 20, 2020: [New York has seen 68 transit worker fatalities due to COVID19, with 2,500 MTA employees testing positive and 4,000 being sent to quarantine.](#)
- April 21, 2020: [Air conditioning is believe to have spread coronavirus to 9 restaurant patrons sitting near an infected patron at a restaurant, according to an early research letter in the journal Emerging Infectious Diseases.](#)
- April 23, 2020: [An overview of superspreading events in 28 countries found patterns that include 16% being linked to religious gatherings; 33% involved parties or celebrations; 9% involved funerals; 10% involved ships or other transportation; 7% involved working in meat-processing facilities and having to be in close quarters to communicate over machinery; and 11% involved business gatherings. The similarities include extended, indoor, close-range, face-to-face conversation. Note that this researcher is not a trained epidemiologist.](#)
- April 24, 2020: [17% of Wisconsin coronavirus cases are health care workers.](#)
- April 24, 2020: [The Achilles Heel of current strategies to control COVID-19 spread is asymptomatic/presymptomatic transmission; virus shedding occurs in the 5 days symptoms manifest, and are spread easily due to it being an upper respiratory tract infection.](#)
- April 25, 2020: [An Italian woman has tested positive for COVID19 for 60 consecutive days. Usually, positivity results don't last for more than 4 weeks \(28 days\).](#)
- April 28, 2020: [Scientists have now detected airborne genetic markers of COVID19 in Wuhan hospitals, lending credence to the theory that airborne transmission is possible.](#)
- April 28, 2020: [The US Kidd, a warship sailing from Hawaii to San Diego, had an outbreak 30 days after leaving Hawaii. This suggests the virus can be dormant and unnoticed in a population for extended periods, transmitted from asymptomatic carrier to asymptomatic carrier.](#)
- May 6, 2020: [New York is reporting 66% of new admissions are self-reporting that they stayed at home and didn't venture outside. The next-highest source of admissions was from nursing homes, at 18%. The infection mechanism is unclear.](#)

- May 8, 2020: [In a prospective cohort study of all 144 geopolitical areas worldwide \(375,609 cases\) by March 20, 2020, there appears to be few or no associations between epidemic growth and latitude/temperature. There are weak negative associations with humidity. Strong associations were found with restrictions on mass gatherings, social distancing measures, and public health interventions.](#)
- May 8, 2020: [Japan's per-capita death rate is 2% of America's death rate. Japan has no lockdown, active subways, many open businesses that are still open, and no contact tracing, and is managing much better control over disease spread than America. A major reason is because almost everyone is wearing a mask. A new simulation shows that America could see a drastic reduction in cases if only 80% of Americans wore masks.](#)
- May 11, 2020: [A single worker infected 533 other people in a fish processing facility in Ghana in the city of Tema.](#)
- May 13, 2020: [Domestic cats appear to be able to be asymptotically infected with COVID19, transmit it to other domestic cats, and shed virus. More study is needed, particularly around potential cat-human transmission.](#)
- May 13, 2020: [A new study published in the Proceedings of the National Academy of Sciences indicates that simply talking for one minute in enclosed environments can release 1,000 droplets that linger in air for more than 8 minutes. Workplaces, public transport, social gatherings, restaurants, and a person's home collectively account for 90% of transmission events.](#)
- May 15, 2020: [72% of the US population is currently living in "high-prevalence" counties: areas with a rate of 100 cases per 100,000 people or more. When the outbreak began, it was mostly concentrated in Democratic areas that voted for Hillary Clinton in 2016; in late April, the virus became much more prevalent in counties that voted for President Trump.](#)
- May 15, 2020: [Areas that fail to social distance face 35 times more virus cases than those who don't.](#)
- May 15, 2020: [A 4-hour dance workshop in South Korea on February 15th with 8 asymptomatic COVID-19 cases turned into 112 positive COVID-19 cases in the fitness community. The instructors and students involved in later outbreaks only met for 50 minutes at a time, 2 times per week.](#)
- May 20, 2020: [In a longitudinal study of the prevalence of new cases of COVID-19 around the country, the Brookings Institute has found that infection rates are increasing fastest in counties that supported Trump in 2016. Caseload growth is increasing fastest in the South and Midwest, and majority Republican counties are being added to the high-prevalence list at 5:1 rates over majority Democratic counties.](#)
- May 22, 2020: [92 people attended church services in a rural Arkansas church from March 6th to March 11th with a pastor who was sick with COVID-19. 38% of them tested positive for COVID-19, and 3 people \(3.3%\) died. An additional 26 cases were linked to the church in their community, with an additional death resulting from community spread.](#)
- June 1, 2020: [The U.S. Army tested 640 new recruits arriving at Fort Benning. They were medically screened, and 4 tested positive. All 640 entered a 14-day monitoring period, with the 4 positive tests entering isolation. After the monitoring period, training](#)

[operations began with masks and social distancing. However, 22 days after the original test \(8 days after the 14-day monitoring period\) one recruit reported to command with COVID-19 symptoms, everyone was retested, and 142 recruits returned positive tests \(22% attack rate in the population\).](#)

- June 11, 2020: [A new research article in PNAS has identified airborne transmission as the dominant route for COVID-19 by analyzing the infection trends and mitigation measures in three epicenters \(Wuhan, Italy, and New York City\). Wearing face masks represents the determinant in shaping pandemic trends in all three.](#)
- June 12, 2020: [The CDC held its first COVID-19 press conference in over 3 months, in order to offer recommendations related to prevention measures for people resuming normal activities and offering 'considerations' for people attending mass gatherings in the wake of protests and re-election rallies restarting.](#)
- June 12, 2020: [Fewer than 1% of Seattle's protesters have tested positive for COVID-19, out of 3,000 people tested.](#)
- June 15, 2020: [A Florida woman and 15 of her friends all contracted COVID-19 after a single night out at a pub after the state reopened. The pub has closed down for deep cleaning.](#)
- June 17, 2020: [Oregon's largest outbreak to-date was centered in Lighthouse United Pentecostal Church in Union County; 236 coronavirus cases are directly linked to it, and it accounts for 47% of the 462 cases reported statewide since Monday the 15th. A video clip of the May 24 service showed hundreds of worshipers singing, dancing, and jumping, before faith communities were allowed to convene in large groups.](#)
- June 17, 2020: [The George Floyd protests do not appear to be causing COVID-19 infection spikes. There have been no sudden surges in cities that host large protests. Public health officials believe this is at least in part because there has been widespread adoption of mask wearing during protests. New York public health officials are contemplating an expansion of outdoor activities as a result.](#)
- June 17, 2020: [China has found the meat and seafood sections of Xinfadi market heavily contaminated with COVID-19. It suspects the area's low temperatures and high humidity may have contributed to the outbreak. Beijing is now halting salmon imports and is advising against eating raw salmon, though it is unclear if the virus was transported on salmon or the salmon was contaminated by sick workers.](#)
- June 18, 2020: [Despite being the epicenter of George Floyd protests, Minneapolis has only seen between 1-2% of protesters test positive for COVID-19.](#)
- June 19, 2020: [Beijing was free of COVID-19 for 55 days before the outbreak at Xinfadi. Seafood vendors were initially infected, followed by beef and lamb vendors. In the Huanan Seafood Wholesale Market, wild animal stalls were believed to be the primary source of contamination, but seafood vendor stalls were adjacent.](#)
- June 22, 2020: [Two infected hairstylists in Missouri wore masks while serving 140 masked clients alongside 6 masked coworkers, and nobody tested after the exposure got sick.](#)

- June 24, 2020: [18 relatives have tested positive for COVID-19 after a surprise birthday party in North Texas with one sick family member. Three family members are now hospitalized.](#)
- June 26, 2020: [JPMorgan analyzed data from 30 million cardholders and found that higher in-person restaurant spending predicted COVID-19 outbreaks 3 weeks later.](#)
- June 27, 2020: [85 people who visited a Michigan bar in East Lansing between June 12 and June 20 got COVID-19.](#)
- July 16, 2020: [Youth sports are a primary driver of new COVID-19 cases in St. Louis right now.](#)
- July 30, 2020: [A new study in JAMA Pediatrics has found that children under 5 who are symptomatic with COVID-19 contain higher concentrations of virus than adult carriers, indicating their potential role in superspreading events.](#)
- July 31, 2020: [An overnight camp in Georgia had a COVID-19 outbreak that infected 260 out of the 360 campers. No masks were required and people stayed overnight in crowded cabins together.](#)
 - [CDC report on the Georgia YMCA camp that lasted for 4 days before being canceled.](#)
- August 3, 2020: [Vietnam has blamed a new highly-virulent outbreak on a new strain of coronavirus that is more infectious than before. 5-6 people are now getting infected for every patient, instead of 1.8-2.2.](#)
- August 8, 2020: [Days after a picture of a crowded hallway at North Paulding High School went viral, 9 people in the school came down with COVID-19.](#)
- August 9, 2020: [97,000 children tested positive for COVID-19 from July 16 to July 30, just as America begins to go back to school. Thus far, 338,000 out of 5,000,000 cases in the US have been children.](#)
- August 19, 2020: [251 cases of the virus have been traced to fraternities and sororities in the U.S. Notre Dame and UNC Chapel Hill have both moved to online instruction because of outbreaks due to college parties.](#)

Treatment & Vaccines

- April 6, 2020: [Developing a vaccine for coronavirus won't be cheap, easy, or fast; natural immunity to viruses like SARS and MERS is typically short-lived. Some animals can be reinfected with the exact same strain that caused infection in the first place.](#)
- April 16, 2020: [Remdesivir is proving to be a **promising treatment of COVID19 symptoms** in a small, 400-person study \(that has no control group\), and clinical trial data should be available soon.](#)
- April 16, 2020: [Coronavirus vaccines **haven't been developed before**, because the viruses act on 'external surfaces' of the body; it's as if a vaccine were expected to kill a virus on the surface of skin. Historically, coronavirus vaccine candidates have induced immune responses that **increase local damage rather than decrease it.**](#)

- April 17, 2020: [Remdesivir has now been shown to **reduce clinical disease and damage to lungs** in a controlled monkey trial, improving upon the already-positive news from the compassionate-use human study with no control group.](#)
- April 18, 2020: [A professor of global health at Imperial College of London is **suggesting we not place hope in quick vaccine development** saving us, and suggests we will be dealing with the effects of the virus for some time, in cyclic opening up/locking down procedures.](#)
- April 20, 2020: [There are now over **10,000 strains of coronavirus across the globe**, which feature more than **4,300 mutations**. Certain strains generate more than **270X the viral load** of others. This means vaccine development will be much harder, and that societal effects will vary dramatically based on which strains are infecting which regions. This also suggests patients may have coinfections of different strains.](#)
- April 22, 2020: [Dr. Rick Bright, the director of the agency \(BARDA\) responsible for production and purchase of vaccines in the Trump administration, was **reassigned due to not supporting chloroquine and hydrochloroquine** in an official capacity.](#)
- April 23, 2020: [**UPDATE:** A controlled study of Remdesivir from China **may not show statistically significant case improvement**, but the study has not been fully released yet.](#)
- April 24, 2020: [The US has stated it will **not be participating in a global vaccine development program**.](#)
- April 24, 2020: [The FDA has issued warnings on chloroquine and hydroxychloroquine after deaths and poisonings have been reported.](#)
 - April 23, 2020: [Fox News has stopped supporting chloroquine and hydroxychloroquine after the VA found that death rates increased for a group of 368 male veterans after treatment.](#)
- April 25, 2020: [**2% of South Korea's recovered patients have tested positive again and are in isolation**; in Wuhan, **5-10% of patients that have 'recovered' have tested positive again**. It is unclear if this is due to remission or reinfection.](#)
- April 29, 2020: [The FDA plans to announce an **emergency use authorization** for **Remdesivir for the treatment of COVID19**. Gilead Sciences claims a major study has shown that Remdesivir shortened the time it takes for COVID19 patients to recover from 15 days to 11 days, and a trend of fewer deaths has been seen. Anthony Fauci says "this will be the standard of care."](#)
- April 30, 2020: [The **fastest vaccine development process in the world took 4 years to complete**. Some vaccines have taken as long as **28 years to develop**. The New York Times built a series of models for how vaccine development could be sped up, but **broad distribution** is still only likely to occur in the end of 2021, given the time required to build factories and go through the minimum necessary medical trials.](#)
- May 2, 2020: [Trump supporters are downplaying Remdesivir, and are continuing to promote hydroxychloroquine, despite clinical evidence.](#)
- May 17, 2020: [The FDA has halted a coronavirus testing program backed by Bill Gates, and supported by a number of public health institutions.](#)

- May 22, 2020: [A 96,000-person analysis, with a large control group of 81,144 people, using data from 671 hospitals around the world, found that using hydrochloroquine or chloroquine with or without a macrolide \(i.e., azithromycin\) was found to increase deaths from COVID-19 by 34% and heart arrhythmias by 137%.](#)
- June 15, 2020: [The FDA has pulled emergency use authorization of using hydroxychloroquine to treat COVID-19, and has said the drug is unlikely to be effective in treating the coronavirus.](#)
- August 2, 2020: [It will take months to years to distribute enough vaccine to enough people to make a significant difference in transmission. Vaccine availability will result in strained supply chains all over again, and herd immunity won't come for a substantial period of time.](#)

Vulnerable Populations

- Undated: [The CDC reports that COVID-19 disproportionately affects racial and ethnic minority groups, with increased illnesses and deaths. In New York City, death rates for Black Americans are almost twice as high \(92.3 deaths per 100k population\) as those for white Americans \(45.2 deaths per 100k population\).](#)
- April 14, 2020: [36% of the homeless population in Boston Health Care's shelter tested positive for COVID19 without displaying any symptoms, highlighting the potential for significant-but-hidden vectors of disease](#)
- April 18, 2020: [Nearly half of the sailors on France's Charles De Gaulle aircraft carrier have tested positive for COVID19](#)
- April 20, 2020: [15% of patients in a New York nursing home have died, following trends across the country of high mortality in senior care facilities; not a single resident was able to get a test for COVID19.](#)
- April 20, 2020: [73% of inmates in an Ohio prison have tested positive for COVID19.](#)
- April 21, 2020: [A University of Chicago study has recently found that Americans who watch Sean Hannity were more likely to die of COVID19 than those who watch Tucker Carlson.](#)
 - [Link to actual study.](#)
 - [Backup of PDF in case the actual study is taken down.](#)
- April 22, 2020: [26 US Navy ships now have COVID-19 outbreaks.](#)
- April 23, 2020: [92% of inmates tested at Indiana correctional facility have tested positive for COVID19.](#)
- April 23, 2020: [11,000 Americans have died in nursing homes \(~20% of all American deaths as of April 23\) as a result of COVID19, and nursing homes are broadly reporting lack of testing capacity and PPE.](#)
- April 24, 2020: [More than 33% of nursing home residents in Belmont Manor, a Massachusetts nursing home, have passed away due to COVID19.](#)
- April 27, 2020: [More than 50% of Massachusetts coronavirus deaths have been nursing home residents.](#)

- April 29, 2020: [In four state prisons, 3,300 inmates have tested positive for coronavirus: 96% without symptoms.](#)
- April 29, 2020: [Over 70% of tested inmates in federal prisons have COVID19, up from a nation-wide positivity of 20% of tested citizens, suggesting a rampant unchecked outbreak in prisons across the board.](#)
- May 1, 2020: [Up to 96% of residents at long-term care facilities in Montreal have tested positive for COVID19. Local health authorities are now taking control over nursing homes and long-term care facilities in the region.](#)
- May 2, 2020: [Half of British doctors have had to bring their own PPE to work or rely on donations in order to treat COVID19 patients safely.](#)
- May 4, 2020: [Of 3,000 residents and workers in the San Francisco Mission, 2.1% have tested positive for COVID19 in late April. More than 50% of those who tested positive reported no symptoms. 75% were men, 95% were Hispanic or Latinx, and only 10% reported being able to work from home.](#)
- May 19, 2020: [Russian medics are 16x more likely to die from COVID-19 than foreign counterparts; nearly 7% of Russia's COVID-19 deaths have been medical professionals.](#)
- May 27, 2020: [Black Americans make up a disproportionate share of COVID-19 infections: 23% of reported deaths are black, even though black Americans only make up 13% of the population.](#)
- June 11, 2020: [A leaked CDC document lists the U.S. as the worst of 10 countries responding to the coronavirus pandemic.](#)

Border Closures

Global

- Continuously updated: [**More than half the countries in the world currently \(as of 4/14/2020\) have border closures**](#) or travel restrictions with other countries. This map [has live coverage and details.](#)
- April 8, 2020: [Italy has declared its own ports unsafe](#) and is refusing any migrants [entry into the country for the duration of the pandemic.](#)
- Continuously updated, but as of April 14, 2020: [**More than half the countries in the world currently \(as of 4/14/2020\) have border closures**](#) with other countries. This map [has live coverage and details.](#)
- April 18, 2020: [Nonessential travel between the US and Canada is banned until May 21: the land border is effectively closed.](#)
 - April 21, 2020: [Air Canada has canceled flights to the US as a result: its capacity had already been cut by more than 90%.](#)
- May 7, 2020: [New Zealand's prime minister has said the country will not have open borders to the rest of the world for a long time to come.](#)
- May 8, 2020: [Ontario premier doesn't want Canada-US border to reopen.](#)

- May 12, 2020: [The EU is releasing new guidelines around travel to and from the EU which features targeted restrictions on countries based on how risky or careless those countries' policies are interpreted. Americans could be the first to be banned by such restrictions. "Corona corridors" are being developed that allow for internal migration and tourism within the EU between similarly-risk-averse countries.](#)
- May 19, 2020: [Canada has extended the border closure with the US for another month.](#)
- June 14, 2020: [Europe is reopening many of its borders, but not to tourists from the US, Asia, Latin America, or the Middle East. Travel is allowed from within the EU, Britain, and the Schengen travel area.](#)
- June 15, 2020: [Several European countries have reopened their borders, but have excluded Swedish tourists due to Sweden's looser coronavirus containment strategy and high COVID-19 death rate. Denmark, Norway and Finland are all remaining closed to Sweden.](#)
- June 23, 2020: [The EU is preparing to ban American, Russian and Brazilian travelers when borders reopen on July 1, due to the uncontrolled spread of COVID-19.](#)

USA

- March 27, 2020: [US Highway 129 between Georgia and TN was **blockaded by jersey barriers** with no explanation; it has since been transformed into a checkpoint.](#) March 30, 2020: [Florida is stopping **all interstate transport** and forcing people to agree to 14 day quarantines, with offenders being threatened with 60 days in jail.](#)
- April 7, 2020: [Texas has set up **checkpoints along the Louisiana border** to enforce 14 day quarantines.](#)
- April 10, 2020: [Texas to **already ease lockdown** under executive orders in order to 'restore livelihoods', after being under stay-at-home orders.](#)
- April 15, 2020: [There are now Republican **protests** against lockdown measures in Michigan.](#)
- April 22, 2020: [President Trump has just temporarily **suspended immigration** to the US.](#)
- May 2, 2020: [**All roads leading to Gallup, New Mexico have been closed** at the mayor's request and the governor's invocation of the Riot Control Act. 4.6% of the population has contracted COVID19, and represents 30% of the cases in New Mexico.](#)
- May 19, 2020: [Hawaii has kept its COVID-19 caseload low by preventing tourists from leaving their hotel rooms, closing state parks, and discouraging any advertising of Hawaii in the mainland.](#)
- May 30, 2020: [The Minnesota Department of Transportation announced it will close highways in the metro area between 7PM and 6AM, after 4 days of protesting and rioting followed George Floyd's death.](#)
- June 13, 2020: [Alaska and Maine, traditional vacation home states for nearby cities, are requiring interstate travelers to either self-quarantine for 14 days or take a COVID-19 test.](#)

- June 24, 2020: [New York, New Jersey and Connecticut have imposed 14-day quarantines on travelers from Alabama, Arizona, Arkansas, Florida, North Carolina, South Carolina, Washington, Utah and Texas. These travel restrictions will apply to states that have an infection rate above 10 cases per 100,000 people, or 10% of the population testing positive, on a seven-day rolling average.](#)

Civil Unrest

- June 3, 2020: [Understanding the interconnection of civil unrest due the pandemic and other societal effects is critical. George Floyd was laid off because of the pandemic; the CDC has observed that COVID-19 is disproportionately harming racial and ethnic minorities; there is a history of the pandemic's effects that is required to understand the context of the current moment.](#)

Boycotts

- May 1, 2020: [Customers are calling for boycotts of Costco for forcing them to wear masks while in the store.](#)

Censorship

- April 16, 2020: [China has banned all online gaming with foreigners](#)
- April 17, 2020: [Half of the nursing homes in Illinois have had staffers or patients test positive for COVID19, but Illinois is hiding the names of the nursing homes in question.](#)
- April 24, 2020: [Under pressure from China, an E.U. report on disinformation campaigns around coronavirus has softened its language and reduced the focus on China.](#)
- April 29, 2020: [Florida has forced its medical examiners to stop releasing the number of deaths independently from state counts. The medical examiners were releasing higher counts \(by 10%\) than the official state counts.](#)
- May 3, 2020: [An epidemiologist and research specialist discuss the long history of the CDC and how its mission has been curtailed, side-lined and censored by budget cuts and ideological differences in administrations over the years.](#)
- May 5, 2020: [Arizona's Department of Health Services told a team of two dozen university professors modeling COVID19 to pause its work. The state has decided to use a model from FEMA that has not been disclosed publicly.](#)
- May 7, 2020: [The Trump administration has prevented the CDC from publishing a 17-page guide to states on how to reopen safely in stages. The administration called it 'too prescriptive'.](#)
 - [A PDF of part of the guide can be found here.](#)
 - [A backup of the 7-page guide segment can be found here.](#)
- May 7, 2020: [Nebraska is no longer allowing reporting on the number of COVID19 cases in meat processing plants.](#)

- May 13, 2020: [Sources within the CDC have leaked 68 pages of guidance documents that show CDC guidance was more restrictive than published federal plans.](#)
- May 14, 2020: [President Trump deliberately wanted less testing in order to have fewer positive results. There is now pressure from the Trump administration to change how deaths are counted, in order to reduce mortality rates.](#)
- May 19, 2020: [Florida removed their chief of COVID-19 data reporting after she refused to manually alter data to drum up support for reopening. Over the past few weeks, the dashboard has gone offline, data has disappeared without explanation, and its been difficult to access underlying datasets.](#)
- May 27, 2020: [Twitter has attached fact-check notifications to Trump tweets. These fact checks were inspired by misinformation about the pandemic. On May 26, Twitter fact-checked President Trump's tweets about mail-in voting being fraudulent: a notification directed users to a link to "get the facts" about mail-in ballots.](#)
- May 28, 2020: [President Trump has signed an executive order that could open the door to regulating social media companies and their fact-checking of political speech on the internet.](#)
- May 29, 2020: [The White House has censored CDC guidance to churches that discouraged choirs from singing during religious services. Churches are now just asked to socially distance themselves. For reference, a single sick person in a choir practice in Seattle, WA infected up to 87% of attendees.](#)
- May 30, 2020: [Georgia is changing the legend on its maps showing coronavirus infections on a per-county basis to make it seem like the virus is contained.](#)
- June 2, 2020: [Fox News has edited a video showing police ignoring actual looting and putting the wrong people \(a black family\) in handcuffs.](#)
- June 4, 2020: [There have been 328 press freedom violations and attacks over the course of the George Floyd protests, compared to only 150 over the entirety of 2019.](#)
- June 11, 2020: [There is growing evidence that COVID-19 deaths are being purposefully undercounted as 'mystery illness', code R00-R99. Historically, around 600-650 deaths per week in the US are considered 'mystery illnesses'; the average is now 4,000 mystery illnesses a week.](#)
 - [The CDC mystery illness data referenced in this post can be found here.](#)
- June 11, 2020: [A leaked CDC document lists the U.S. as the worst of 10 countries responding to the coronavirus pandemic.](#)
- June 15, 2020: [The Portland Police Bureau has announced that journalists are not allowed on the streets after unlawful assembly is declared, which some interpret as a violation of first amendment rights.](#)
- July 29, 2020: [An NPR investigation has found irregularities in how a multi-million dollar contract was awarded to collect key data about COVID-19. TeleTracking Technologies appears to have been issued a no-bid contract after HHS reached out directly, and the CEO had links to an organization that funded billions of dollars of projects for the Trump Organization. TeleTracking is now being used to handle COVID-19 infection and hospitalization data, after the CDC had been tracking this data without issue for 15 years.](#)

Civil Disobedience

- May 1, 2020: [A Kentucky woman who tested positive for COVID19 was arrested at a grocery store after defying quarantine orders 3 times.](#)
- August 8, 2020: [Hundreds of people gathered in Waterfront Park in Portland, OR to see Sean Feucht preach on Sunday, defying bans on gatherings and mask orders.](#)

Historical Analogs

- October 18, 2012: [During the Spanish Flu, San Francisco regularly changed its guidance and requirements for wearing masks in public \(and locking down in various ways\). Eventually, public sentiment was so anti-mask that a formal Anti-Mask League was started that petitioned the government for mask requirements to be broadly lifted.](#)

Legal Action

- May 18, 2020: [A home health aide in New Jersey has been criminally charged after testing positive for COVID-19, refusing to self-isolate, and tending to an 80-year-old - leading to the 80-year-old catching COVID-19 and dying.](#)

Looting

- May 30, 2020: [Black protesters and organizers are asking white people to not loot or destroy things in their name.](#)
- June 2, 2020: [There is no simple story about why there is so much looting adjacent to the protests. Angry people have a number of agendas after societal triggers, including inequality, poverty, anger at the triggering situation, and more.](#)

Misinformation

- June 2, 2020: [A fake ANTIFA Twitter account was taken down by Twitter for inciting violence, and was actually run by a white nationalist group called Identity Evropa](#)
- June 3, 2020: [False claims of ANTIFA are plaguing US cities during the George Floyd protests.](#)
- June 12, 2020: [Twitter has removed 170,000 China-linked bot accounts for spreading disinformation in coordinated fashions.](#)
- June 12, 2020: [Fox News was caught photoshopping an armed protester into pictures of the Capitol Hill Autonomous Zone, and using pictures taken in Minneapolis in news stories about Seattle.](#)
- June 14, 2020: [Fox News has now retracted and taken down the photoshopped and misattributed images after the Seattle Times broke the story.](#)

- August 6, 2020: [Facebook has removed one of the largest QAnon conspiracy groups \("Official Q/Qanon" with 200,000 members\) on its platform after a number of false posts.](#)

Protests

George Floyd Protests

- Undated: [From 1900 to 2006, campaigns of nonviolent resistance were more than twice as effective as their violent counterparts in achieving their stated goals.](#)
- Continuously updated, as of June 22, 2020: [Police brutality protests in honor of George Floyd's murder have spread to at least 2,000 cities in all 50 states, and have now spread to 60 countries, making these protests the largest civil rights movement in world history.](#)
- Continuously updated, as of June 13, 2020: [At least 1,600 cities in all 50 states have had protests against police brutality in the name of George Floyd.](#)
- Continuously updated, as of June 22, 2020: [A list of police reforms in 22 states that directly result from the George Floyd protests.](#)
- August 5, 2019: [Police violence is a leading cause of death for young black men between 25-29 years of age.](#)
- October 5, 2019: [This is a thread of research-based solutions to stopping police violence, based on studies of several methods.](#)
- May 30, 2020: [Ohio Governor Mark DeWine says protests around George Floyd's death are not only understandable, but appropriate, given the circumstances of his death.](#)
- May 30, 2020: [Curfews have been instituted around the country after days of protests: Minneapolis, Los Angeles, Atlanta, Denver, Philadelphia, Pittsburgh, Seattle, Cleveland, Columbus, and Portland.](#)
- May 30, 2020: [Global protests have now started in response to George Floyd's death: Toronto, London and Berlin are now seeing protests.](#)
- June 1, 2020: [Police have rioted during peaceful protests, justifying the point of the George Floyd protests.](#)
- June 1, 2020: [Police de-escalation keeps both protesters and police safer, given 50 years of federal research into the matter. When police respond to peaceful protests with escalating and violent responses, protests turn violent.](#)
- June 1, 2020: [City-by-city photos of the George Floyd protests across 140 cities in 21 states.](#)
- June 1, 2020: [A collection of primary source accounts of protests in Minneapolis thus far, ground zero for the George Floyd protests.](#)
- June 2, 2020: [Two Oakland teenagers organized a 15,000-person protest in Oakland on a few days notice.](#)
- June 2, 2020: [Laura and George Bush have made a statement in support of the protests, calling for America to listen, examine our tragic failures, and address systemic racism in this country.](#)

- June 3, 2020: [Peaceful protesters in Riverside, CA tossed an agitator's flash bomb back into his car after he tried to plant it.](#)
- June 4, 2020: [Some protests in Atlanta have gotten so peaceful that the National Guard has danced with protesters in the streets.](#)
- June 5, 2020: [The Chicago Police Board President was hit with a baton 5 times by his own officers during a peaceful George Floyd protest.](#)
- June 6, 2020: [12 days after protests began, and in the midst of cold and rain, New York City is still seeing over a dozen protests in different parts of the city this Saturday.](#)
- June 7, 2020: [Mitt Romney has joined the Black Lives Matter protest in Washington, D.C., along with 1,000 Christians singing Amazing Grace.](#)
 - [Primary source video can be found here.](#)
- June 7, 2020: [Protests have now spread to small, mostly-white towns, marking a significant shift in public sentiment in the national conversation about Black Lives Matter.](#)
- June 7, 2020: [Protests are growing larger, calmer, and more community-oriented. Protests in Washington, D.C. hit record sizes after the Lafayette Square incident, after Mayor Muriel had BLACK LIVES MATTER painted on 16th Street leading to the White House; protesters in Philadelphia stayed out past curfew but then dissipated on their own; music and dance parties are a common theme. Protests remained peaceful as cities lifted curfew in places like DC, Los Angeles, Atlanta, Phoenix, and Miami.](#)
- June 8, 2020: [Korean pop music fans \(K-pop\) have joined the George Floyd protests virtually by flooding and disabling surveillance applications used by police, donating millions of dollars to Black causes, flooding hashtags like #whitelivesmatter with spam, and more.](#)
- June 12, 2020: [19 days after George Floyd was killed, Seattle's protests have grown continuously to the point of 60,000 people joining in a statewide silent march and general strike.](#)
- June 13, 2020: [Protests in San Francisco closed down the Bay Bridge for 2 hours, as a caravan of 50 cars stopped and spray-painted BLM on the bridge.](#)
- June 14, 2020: [In the midst of larger George Floyd protests, hundreds of Los Angelenos came out to protest federal immigration policies that trapped kids in cages in ICE detention camps. This is notable for being a large protest that is not affiliated with George Floyd, after a period of relatively little ICE media coverage.](#)
- June 19, 2020: [Protesters have torn down 2 Confederate statues in Raleigh, North Carolina and have hung one by the neck from a lightpost. Officers had attempted to stop an initial attempt to pull down parts of the memorial Friday, but suffered injuries attempting to prevent it.](#)
- June 20, 2020: [The George Floyd protests are like no protests the U.S. has ever seen before. The protests have been sustained for 3 weeks; have grown in number of protests, protesters, and protests sites; have spread to predominantly-white communities in ways they've never spread before; and are unprecedentedly representatively diverse of the American population \(and are far more diverse than the Civil Rights movement\). In addition to substantial policy changes occurring nation-wide, organizations around the](#)

[country are considering this their watershed moment to change and promote racial justice.](#)

- June 20, 2020: [A protest in Cedar Rapids turned into a celebration after the city council unanimously supported demands for reform.](#)
- June 21, 2020: [K-Pop fans and TikTok users have successfully sabotaged President Trump's first campaign rally in Tulsa, OK by reserving a million free tickets online, creating an impression of popularity, and then having only 6,200 people show up in an arena with a 19,000-person capacity. An outdoor overflow stage was torn down during the event, and an outdoor speech by Vice President Pence and President Trump were canceled.](#)
- June 21, 2020: [North Face, REI, Talkspace, AdaFruit, Patagonia, Upwork and others have joined the Stop Hate For Profit campaign \(organized by NAACP, Anti-Defamation League, Color of Change, common sense, Free Press, and Sleeping Giants\) to pull advertisements from Facebook for the month of July in protest of Facebook's lenient hate speech policies that keep President Trump's posts inciting violence up.](#)
- June 23, 2020: [Police officers kill 1,700 Americans a year. Between 2010 and 2018, more Americans died at the hands of police \(14,400\) than on active military duty \(9,400\), even though the U.S. was at war in Afghanistan throughout that period.](#)
- June 27, 2020: [Thousands have gathered in Aurora, CO to protest the death of Elijah McClain, who was detained by police for suspiciously wearing a ski mask and injected with excessive amounts of ketamine by paramedics, that eventually killed him.](#)

Pandemic Policy Protests

- April 17, 2020: [Protestors began gathering soon after shelter-in-place began, with many not believing there was a pandemic in the first place, defying shelter-in-place orders.](#)
- April 18, 2020: [Large protests in Wisconsin after stay-at-home orders were extended until May 26.](#)
- April 19, 2020: [2,500 protesters in Washington State against shelter-in-place.](#)
- April 20, 2020: [Potential good news: Facebook will **ban protests that defy government guidance** on social distancing.](#)
- April 20, 2020: [A single conservative family \(the Dorr family\) is behind at least **5 of the largest anti-social-distancing protest movements**, which have amassed 200,000 followers collectively.](#)
- April 21, 2020: [The DeVos family appears to be funding the astroturfed protest movement, according to Governor Whitmer.](#)
- April 24, 2020: [On 4/24 thousands gathered without social distancing to protest Wisconsin governor Whitmer.](#)
- April 24, 2020: [Security researchers believe the reopen America campaign is being astroturfed by well-funded gun advocacy and conservative interests.](#)
- April 29, 2020: [The leader of the North Carolina anti-shelter-in-place protests has tested positive for COVID19 and is angry about being forced to quarantine in her home for 2 weeks.](#)

- April 30, 2020: [Armed protestors are now roaming the Michigan State Capitol building while the legislative body is in session, and politicians are now wearing bulletproof vests.](#)
- May 5, 2020: [Police officers in Texas arrested a bar owner and a group of armed men defending the bar, for reopening early and violating shelter-in-place orders.](#)
- May 5, 2020: [Right-wing shelter-in-place protestors are planning on working with local sheriffs to not enforce shelter-in-place orders.](#)
- May 14, 2020: [Michigan canceled its legislative session due to the continued presence of armed protestors within the Capitol building. Governor Whitmer has now received credible death threats.](#)

Strikes & Labor Movements

- Continuously Updated: [The American Medical Association's continuously-updated advocacy to government agencies about the needs of physicians in the US during the COVID-19 pandemic.](#)
- March 22, 2020: [Amazon protestors at DHC1 Chicago won paid time off for all Amazon workers after going on strike.](#)
- April 6, 2020: [13,000 carpenters are striking in Massachusetts because they're being forced to work unsafely.](#)
- April 8, 2020: [An entire nursing home of 83 people was abandoned after every employee refused to show up to work when elderly patients started getting sick with COVID-19.](#)
- April 9, 2020: [Even though they're considered essential workers, Amazon, Instacart, Whole Foods, and other chains have experienced **sudden strikes and walk-offs** due to workers being unwilling to risk getting sick \(or getting their families sick\) due to not being protected from the pandemic.](#)
- April 16, 2020: [OSHA has received over **3,000 complaints about businesses not offering sufficient protection** from coronavirus over the last few months.](#)
- April 17, 2020: [Nurses are being suspended for not working without PPE.](#)
- April 18, 2020: [Healthcare workers are protesting for better protective equipment in Washington DC.](#)
- April 19, 2020: [Protests have broken out around the world: India, Lebanon, Iraq, Kenya, Italy, the US, and more, as economic issues that result from the pandemic raise tension in working classes.](#)
- April 21, 2020: [300 Amazon workers walked off of work on 4/21.](#)
- April 24, 2020: [Truckers are starting to protest for better working conditions and supplies.](#)
- April 27, 2020: [Nurses are quitting Russian hospitals en masse because they are being denied protective gear, food, and adequate accommodations.](#)
- April 28, 2020: [There have been 151 strikes in the U.S. since March 1st, according to PayDayReport. There have been meatpacker walkoffs in Nebraska and Minnesota after Trump's executive order, and the Pennsylvania National Guard has been called in to replace striking nurses.](#)

- April 29, 2020: [Frontline workers at Amazon, Whole Foods, Instacart, and others are organizing an unprecedented **nation-wide mass strike on May 1.**](#)
- April 30, 2020: [More information about the US general strike being called on May 1.](#)
- April 30, 2020: [Russia is drafting 3rd year medical students and higher into service as nurses, and only paying those in 'red zones'. Students that refuse will face academic consequences.](#)
- May 12, 2020: [Workers at three Yakima Valley fruit packing houses in Washington State have been protesting for the past 6 days for hazard pay and assurances of the safety of packing facilities.](#)
- June 1, 2020: [Public transportation unions are refusing to transport detained protesters or police in solidarity with the George Floyd protests.](#)
- June 12, 2020: [Four entertainment unions \(DGA, SAG-AFTRA, IATSE, and Teamsters\) have teamed up and retained doctors and epidemiologists to write safe reopening guidelines for the entertainment industry.](#)
- June 14, 2020: [Between March 1 and May 31, PayDayReport.com recorded 260 strikes across the United States. Between June 1 and June 14, the site recorded 500 additional strikes.](#)
- June 15, 2020: [Harvard University has reached an agreement with a union representing 4,400 graduate students who teach, conduct research, and work on its campus. If signed, it would become just the 8th such agreement to cover students at a private American university. Graduate students at Brandeis signed the first-ever such agreement in July 2018, with Tufts following that fall.](#)
- June 18, 2020: [38,000 union dock workers belonging to the International Longshore and Warehouse Union \(ILWU\) shut down 29 of the United States' West Coast ports in unison in honor of the George Floyd protests. This is the largest dockworker strike in over a decade. The work stoppage was deliberately timed to Juneteenth. "\[The ILWU understands\] that laws in this country were made to hurt workers, just as laws in the south were made to hurt Blacks. This type of work stoppage is what needs to be done by every union in the country."](#)
- June 18, 2020: [Several thousand Tunisian healthcare workers have launched a general strike to demand better hospital management. The strike took place across all public hospitals across the country after a call from the Tunisian General Labor Union.](#)
- June 19, 2020: [There have been over 500 strikes in the past 3 weeks as the George Floyd protests have surged on Juneteenth. The ILWU closed 29 ports across the West Coast, the UAW stopped all production for 8 minutes 46 seconds, and workers have walked off the job at 500 employers in the last 3 weeks.](#)
- June 22, 2020: [4,000 shipbuilders went on strike against Bath Iron Works on Monday, disrupting production of Navy warships. 87% of union workers voted to strike after a dozen non-monetary provisions were included by the company, focusing on subcontracting, seniority, and work rules instead of wages and benefits. This is the first such strike in 20 years, and the last strike lasted more than 55 days. This strike threatens the production of guided missile destroyers during a time of growing international tension with China and Russia. The union had previously called for a](#)

[two-week closure of the shipyard to protect workers from the pandemic, but workers were forced to work through the pandemic because the federal government classified workers as essential.](#)

- June 23, 2020: [700 nurses at a Joliet hospital in Illinois have filed a 10-day strike notice, as they have been working without a contract since May 9th and have been in negotiations since February.](#)
- June 25, 2020: [According to a multi-decade study, labor union participation results in Democratic party affiliation.](#)
- June 26, 2020: [Nurses at Riverside Community Hospital in Southern California launched a 10-day strike over concerns around understaffing and lack of PPE.](#)
- July 28, 2020: [40,000 child care providers have voted to unionize in California. 97% of the providers voted to become Child Care Providers United.](#)

Reform & Restoration

Corporations

- June 1, 2020: [At least 60 CEOs have made public statements in support of Black Lives Matter. Corporations are speaking out during Black Lives Matter like they haven't before, because of the implication that silence is complicity.](#)
- June 5, 2020: [The NFL condemns racism, and admits they were wrong in not listening to NFL player protests.](#)
- June 10, 2020: [NASCAR has banned the display of Confederate flags at all events and properties.](#)
- June 10, 2020: [After 30 years, the COPS reality TV show has been canceled by Paramount Pictures.](#)
- June 11, 2020: [Large companies that participate in Black Lives Matter statements are coming under increased scrutiny by their own employees; Microsoft, Amazon, Adidas, and Nike are being challenged to review their internal hiring and administrative policies after making statements.](#)
- June 12, 2020: [The head of consumer products at Riot Games has resigned over a meme he posted about George Floyd, commenting "this type of criminal lifestyle never results in good things."](#)
- June 16, 2020: [Boy Scouts of America says it stands with Black Lives Matter, and will require a diversity badge of all of its Eagle Scouts. It explicitly calls out the killings of George Floyd, Ahmaud Arbery and Breonna Taylor as murders.](#)
- June 17, 2020: [Quaker is changing the Aunt Jemima brand name and removing the image of a Black woman on it that they say is based on a racial stereotype.](#)
- June 17, 2020: [Dan Cathy, billionaire CEO of Chick-fil-A, is asking white people to repent and fight for Black Americans in the wake of police killings.](#)

- June 17, 2020: [Popular Mechanics has released an article on how to dodge and disarm the military-grade sonic cannons used by police on protesters, after previously releasing an article on how to topple statues safely.](#)
- June 17, 2020: [Netflix's CEO, Reed Hastings, has donated \\$120M to historically Black colleges and universities to celebrate great Black achievement.](#)
- June 18, 2020: [The Southeastern Conference has told Mississippi lawmakers that it would consider banning championship events from Mississippi so long as the state flag contains the Confederate battle emblem.](#)
- June 19, 2020: [The NCAA has now banned all championship events from Mississippi over their state flag containing a Confederate battle emblem. This means Ole Miss, Mississippi State, and Southern Miss baseball programs are no longer able to hold regionals or super regionals. Mississippi public universities put out a joint statement Friday in support of the NCAA's decision, noting that the state will miss out on millions of dollars of revenue with the post-season ban.](#)
- June 21, 2020: [A rope tied in the shape of a noose was found in Black NASCAR driver Bubba Wallace's garage. A later investigation showed the noose had been there for some time.](#)
- June 21, 2020: [North Face, REI, Talkspace, AdaFruit, Patagonia, Upwork and others have joined the Stop Hate For Profit campaign \(organized by NAACP, Anti-Defamation League, Color of Change, common sense, Free Press, and Sleeping Giants\) to pull advertisements from Facebook for the month of July in protest of Facebook's lenient hate speech policies that keep President Trump's posts inciting violence up.](#)
- June 23, 2020: [Walmart has stated it will no longer carry items with the Mississippi flag on them, as it looks too much like the Confederate flag.](#)
- June 25, 2020: [Verizon has decided to join the corporate protest of Facebook's hate speech policies by withdrawing advertising from Facebook and Instagram for the month of July. Verizon spent an estimated \\$1.87M on ads between May 22 and June 20 across the two platforms.](#)
- June 25, 2020: [Unilever, the largest advertiser in the world, has announced it is halting its advertising on Facebook and Instagram. It has additionally announced it is withdrawing advertising from Twitter given the polarized social media climate. It has been joined by Honda and others.](#)
- June 26, 2020: [Mark Zuckerberg has announced that Facebook will remove posts that incite violence or attempt to suppress voting, with no exceptions for politicians, and will affix labels on posts that violate its policies.](#)
- June 26, 2020: [The full list of companies that have announced they are boycotting Facebook, as of June 26.](#)
- June 27, 2020: [Coca-Cola, Hershey and Levi Strauss have joined the Facebook boycott.](#)

Military

- June 2, 2020: [A principal deputy undersecretary of Defense has resigned from a Defense Department science board as a result of President Trump's clearing of protesters from a church, and posing with Defense Secretary Esper for a photoshoot.](#)
- June 2, 2020: [General Milley of the U.S. Army has released a letter to the entire Armed Forces stating that every member of the military swears an oath to the Constitution itself: that all men and women are born free and equal; that all should be treated with respect and dignity; and that Americans have the right to freedom of speech and peaceful assembly. It reaffirms that the National Guard is under the leadership of State Governors. It reminds troops that they must uphold the values of the nation. It reminds the entire Armed Forces that they committed their lives to the idea of America, and that they will stay true to that oath. It is an extraordinary reminder and pushback to President Trump's suggestion that the federal government could order active military forces against civilians.](#)
- June 3, 2020: [Members of the armed services are uncomfortable with the Secretary of Defense's description of U.S. cities as battlespaces to control. Members of the military began pushing back after President Trump described the protests as "domestic acts of terror" and called on law enforcement to "dominate the streets" to end them. He additionally stated "if a city or state refuses to take the actions necessary to defend the life and property of their residents, then I will deploy the United States military and quickly solve the problem for them."](#)
- June 3, 2020: [James Mattis, former Secretary of Defense and celebrated Marine General, has described President Trump as a threat to the Constitution, and accused him of never trying to unite America. "Donald Trump is the first president in my lifetime who does not try to unite the American people - does not even pretend to try. We are witnessing the consequences of this deliberate effort. We are witnessing the consequences of three years without mature leadership... When I joined the military, some 50 years ago I swore an oath to support and defend the Constitution. Never did I dream that troops taking that same oath would be ordered under any circumstance to violate the Constitutional rights of their fellow citizens—much less to provide a bizarre photo op for the elected commander-in-chief, with military leadership standing alongside."](#)
- June 3, 2020: [Current Secretary of Defense Mark Esper said he did not support using active duty troops to quell large-scale protests, breaking with President Trump.](#)
- June 4, 2020: [Former White House Chief of Staff has publicly reminded President Trump that he did not fire James Mattis; James Mattis resigned of his own will.](#)
- June 4, 2020: [Former Defense Secretary and CIA Director Leon Panetta has stated bluntly that the military is trained 'to fight our enemies and not the American people'.](#)
- June 7, 2020: [Four ex-Joint Chiefs of Staff have now come out against President Trump for his statements about using active duty military to quell protests. Military experts say it](#)

[is a historically unprecedented show of defiance against a Commander-in-Chief. It is even more telling that there is no pushback on these statements from the ranks.](#)

Mutual Aid

- May 9, 2020: [Mutual aid groups often form in the wake of disasters, and help rebuild communities through solidarity instead of charity. It can be difficult to sustain mutual aid projects, however, as they often lack long-term direction and leadership post-crisis.](#)
- May 31, 2020: [Thousands of Minnesotans have donated food by people affected by protests, looting and violence in Minneapolis. Organizers asked for 85 bags of groceries and received several thousand.](#)
- June 11, 2020: [The Capitol Hill Autonomous Zone, formed after Seattle police abandoned the Capitol Hill police station, has become a center for mutual aid, offering free food and community support.](#)
- June 12, 2020: [The Capitol Hill Autonomous Zone is beginning to look like a permanent street festival, featuring two public gardens, murals across the street, food, music, and speeches.](#)

Police Accountability

- June 1, 2020: [Two Atlanta police officers have been fired after tazing college students in their car as they drove near a protest.](#)
- June 2, 2020: [Louisville's police chief was fired after a black business owner named David McAtee was shot by police and police officers had not activated their body cameras. "This type of institutional failure will not be tolerated," said Mayor Greg Fischer.](#)
- June 3, 2020: [Denver police officer fired for "Let's start a riot" post on Facebook.](#)
- June 3, 2020: [All four officers involved in the George Floyd murder have been arrested, with Chauvin upgraded to 2nd-degree manslaughter and the rest charged with 3rd-degree manslaughter.](#)
- June 3, 2020: [Minneapolis police officers have been sued by the ACLU for shooting, beating, and gassing over a dozen journalists.](#)
- June 3, 2020: [A police office in Fort Lauderdale that pushed a 19-year-old teenager to the ground during a protest has been publicly revealed to have 71 use-of-force cases on his record.](#)
- June 3, 2020: [An Orange County sheriff's deputy is under investigation for wearing an Oathkeeper patch on his uniform during a George Floyd protest. The Oathkeepers are a right-wing paramilitary group that promises armed resistance to gun control legislation.](#)
- June 3, 2020: [An attorney that served on the Denver Police Department's Use of Force Committee after being shot and tear gassed by Denver police during a protest.](#)
- June 5, 200: [Massachusetts State Troopers are no longer being allowed to park at UMass: Boston, as police presence can serve as an implied deterrent to the right to protest.](#)

- June 5, 2020: [U.S. Park Police are being investigated by the Australian government after attacking their journalist live on air. Park Police have declined to release the names of the officers responsible.](#)
- June 5, 2020: [A judge in Philadelphia reviewed Twitter and YouTube videos of officer Joseph Bologna striking a Temple University student and dropped all police charges.](#)
- June 5, 2020: [The entire Buffalo Police Department Emergency Response Team has resigned in the wake of 2 of their members pushing 75-year-old protester Martin Gugino to the ground. They have resigned in support of the 2 officers who pushed the man to the ground. Buffalo Police Benevolent Association President John Evans stated "Fifty-seven resigned in disgust because of the treatment of two of their members".](#)
 - [Raw video of the police pushing Martin Gugino over.](#)
- June 8, 2020: [A crowdsourced list of protest accomplishments that include fired police chiefs, confederate statue removals, labor actions that refuse to support police, officer removals, investigations into local police behavior, changes in police budgets across the country, and more.](#)
- June 8, 2020: [After protests were handled poorly and became violent, Portland's police chief has stepped down and asked Chuck Lovell, an African American officer, to step up in her place.](#)
- June 9, 2020: [Head of the Fraternal Order of Police in Brevard County, Florida that offered to hire officers accused of misconduct elsewhere has been suspended with pay pending an investigation.](#)
- June 10, 2020: [New York State police union chief Mike O'Meara has demanded police not be profiled, stating officers shouldn't be treated 'like animals and thugs'.](#)
- June 10, 2020: [Joseph Bologna, who beat a Temple University student with a baton, has been suspended. The police union is now selling Bologna Strong T-shirts.](#)
- June 11, 2020: [USA Today has led an effort to investigate police misconduct and has found 85,000 police officers who've been investigated for misconduct, spanning 200,000 incidents. This represents 10.6% of police officers in the U.S..](#)
 - October 14, 2019: [USA Today has released a public database of 30,000 police officers banned by 44 states.](#)
 - Undated: [There are 800,000 police officers in the U.S.](#)
- June 11, 2020: [A San Francisco sheriff's captain with 22 years of experience has been identified as the official who used a baton to knock of a protester on May 31, and is now under criminal investigation. District Attorney Chesa Boudin stressed it is "unacceptable for law enforcement to silence peaceful protest."](#)
- June 12, 2020: [The entire Hallandale Beach SWAT team has resigned from their current assignment because the police chief took a knee with protesters.](#)
- June 12, 2020: [A New Jersey police officer was charged with two counts of assault after deploying pepper spray on 2 people without provocation.](#)
- June 14, 2020: [At least seven Minneapolis police officers have quit and seven others are in the process of resigning, citing a lack of support from department and city leaders.](#)
- June 16, 2020: [LAPD has racked up \\$40M in overtime over the course of the protests, and doesn't have the budget to pay officers. It is offering time compensation instead.](#)

This is notable because state budgets are at all-time lows, with no room to spare and broad cuts already in the works, as a result of expensive pandemic response, broad unemployment payouts, lack of payroll tax from broad unemployment, and more.

- June 17, 2020: The head of the Atlanta Police Union has confirmed that police officers have walked off the job after officer Garrett Rolfe was charged with murder of Rayshard Brooks.
- June 17, 2020: The King County Labor Council has expelled the Seattle Police Union after stating “We can’t both stand with a police system that’s set up to hurt our Black community and stand up for our people of color who are oppressed by police.”
- June 17, 2020: After attempting to use a protester that needed medical attention as a bargaining chip to get protesters to disperse, Mayor Levar Stoney of Richmond, VA demanded and received Richmond Police Chief William Smith’s resignation.
- June 17, 2020: A Rossville, GA police officer has been fired after posting “I think a hanging is in order” to Facebook.
- June 18, 2020: The police chief of Nashville, TN will resign after a national search for a replacement is complete after 15 Nashville council members called for his resignation, in the wake of announcing arrest warrants for two activists.
- June 19, 2020: The Louisville officer that shot Breonna Taylor is being fired 3 months after the shooting.
- June 20, 2020: Philadelphia has taken 72 police officers off the street and put on desk duty in response to the discovery of thousands of offensive social media posts by the officers. The scandal has implicated more than 300 officers out of the city’s 6,500. The revelation was due to the work of the Plain View Project, a group of lawyers that began monitoring the social media accounts of Philadelphia officers in the fall of 2017.
- July 27, 2020: Oakland officials moved to prevent President Trump from deploying federal troops to the city via legislation, aimed at preventing federal troops from grabbing Oakland citizens off the streets during protests.

Policy Change

- Undated: The Police Use of Force project has cataloged data-driven methods to reduce police violence, drawing from a substantial number of municipalities.
- August 20, 2017: Confederate statues were predominantly installed during the Jim Crow era and the Civil Rights era in an attempt to intimidate Black communities. They were not built immediately after the Civil War to commemorate Southern leaders.
- June 2, 2020: R.T. Rybak, former Mayor of Minneapolis from 2002 to 2014, offers a candid assessment that the police force has a racism problem.
- June 2, 2020: The state of Minnesota has launched a civil rights investigation into the Minneapolis police department.
- June 3, 2020: Los Angeles Mayor Eric Garcetti has cut \$100-150M from the LAPD’s budget in order to invest in communities of color.

- June 7, 2020: [The Minneapolis City Council has voted in a veto-proof majority to disband the Minneapolis Police Department and invest in community-led public safety in response to the George Floyd protests.](#)
- June 8, 2020: [New York State Legislature is considering repealing Section 50-A, a police privacy law that protects the records of complaints against police officers.](#)
- June 8, 2020: [Camden, NJ disbanded its police department in 2013 when it reached murder rates 18 times the national average; new officers hired had to complete a 50 page application, retake psychological testing, and go through an interview process.](#)
- June 8, 2020: [Senators Karen Bass, Cory Booker, Kamala Harris, and Jerrold Nadler have introduced the Justice in Policing Act of 2020 that calls for an end to profiling, bans choke holds and carotid holds, limits military equipment transfer, mandates the use of cameras, removes qualified immunity, establishes a National Police Misconduct Registry, and more.](#)
- June 8, 2020: [A partial list of reforms implemented in the 2 weeks since George Floyd's death.](#)
- June 9, 2020: [A police reform bill that would end qualified immunity, ban the use of chokeholds, require all police to have body cameras, and more has passed the Colorado Senate 32-1.](#)
- June 12, 2020: [In a unanimous vote, Minneapolis has approved plans to create a 'community' alternative to the police department.](#)
- June 12, 2020: [Kentucky has voted to remove a statue of Jefferson Davis from the Kentucky Capitol building and move it to his birthplace in Fairview.](#)
- June 12, 2020: [The 4th U.S. Circuit Court of appeals revived a civil rights lawsuit this week against police in Martinsburg, W.V., rejecting their claims of qualified immunity after they shot Wayne Jones 22 times. The judge stated plainly "this has to stop".](#)
- June 12, 2020: [Camden, NJ, which disbanded itself police department in 2013 due to budget cuts from state austerity measures, may not be a good model for policy change for other states looking to reform departments. It replaced heavy police presence with surveillance and aggressive tactics in order to reduce crime 38%.](#)
- June 12, 2020: [San Francisco mayor London Breed has declared that unarmed professionals will now respond to non-criminal police calls in San Francisco, as part of a four-part plan to limit police confrontation.](#)
- June 12, 2020: [New York City Council leaders are backing a push to cut \\$1B from NYPD's budget.](#)
- June 12, 2020: [Iowa has passed a comprehensive bipartisan police reform bill that bans most chokeholds excepting threats of deadly force, increases training for all officers in Iowa, prevents hiring officers who have been convicted of a felony/fired for misconduct/quit to avoid being fired for misconduct, and more.](#)
- June 13, 2020: [Andrew Cuomo of NYC has signed legislation banning police chokeholds, repealing Section 50-A of the state's civil rights law to allow officer records to become transparent, and appointing the state's attorney general as an independent prosecutor in all future matters concerning civilian deaths.](#)

- June 13, 2020: [Colorado is among the first states to pass comprehensive police reforms following protests; Senate Bill 217 bans the use of chokeholds and carotid holds, limits when police are allowed to shoot at a fleeing person, requires officers to intervene in cases of excessive force or face criminal charges, requires both body cameras and public release of footage, and removes qualified immunity and allows officers to be held personally liable for civil rights violations. The ACLU regards this as one of the strongest sets of policing laws in the country.](#)
- June 15, 2020: [The Seattle City Council has unanimously voted to ban police crowd-control weapons \(including tear gas, pepper spray, foam tipped projectiles, and other devices\), stating “they’ve been used without provocation”. A separate vote also unanimously banned chokeholds.](#)
- June 15, 2020: [Albuquerque will use social workers and violence prevention coordinators to respond to certain 911 calls instead of police, creating a “first-of-its-kind” civilian public safety department in the process.](#)
- June 17, 2020: [Portland City Council votes to cut \\$15M from a police budget of \\$244M. The cuts will shut down the school resource officer program, reduce the size of the SWAT team, and more. It will be diverted to non-police pilot agencies that respond to homeless or mental health crises, will create a leadership development program for Black youth, and more.](#)
- June 18, 2020: [Philadelphia City Council has approved a preliminary budget that includes \\$33M in cuts to the police department. This article notes specifically that Philadelphia had to accommodate a city budget reduction of \\$749M across the board as a result of economic fallout from the pandemic. Regardless, it made sure to restore \\$1.3M to arts and culture, invest \\$20M in affordable housing and \\$25M in poverty reduction.](#)
- June 18, 2020: [NYC lawmakers have passed a bill requiring police to disclose surveillance technology used on the public by a vote of 44 to 6.](#)
- June 19, 2020: [New York City has declared Juneteenth a holiday.](#)
- June 20, 2020: [Protesters toppled two Confederate statues, and hung one by the neck from a traffic light, in Raleigh, North Carolina. The Governor then ordered remaining Confederate statues in the city to be removed.](#)
- June 20, 2020: [Cedar Rapids’ city council and police have agreed to all 7 BLM protest demands peacefully.](#)
- June 23, 2020: [The Georgia Legislature passed a hate crimes bill for the first time as a result of the George Floyd protests and the killing of Ahmaud Arbery in Brunswick, GA.](#)

Retaliation

- May 30, 2020: [Curfews were put into effect in Minneapolis, Seattle, Portland, Denver, Atlanta, Los Angeles, Cleveland, Columbus, Pittsburgh and Philadelphia after looting broke out.](#)
- June 11, 2020: [The president of Chicago’s police union has issued a warning to police officers that they will be kicked out of the union if they kneel with protesters.](#)

- June 12, 2020: [Armed protesters are protecting a Confederate statue in Brandenburg, Kentucky, claiming “this is our battle line”. The protesters have formed a cordon around the statue, and are joined by police and other officials.](#)
- June 12, 2020: [A NYPD lieutenant has apologized to other officers for kneeling in response to George Floyd protester demands, stating “the cop in me wants to kick my own ass”.](#)
- June 15, 2020: [Trader Joes store #130 in Seattle has been closed indefinitely after workers participated in a protest.](#)
- June 15, 2020: [A video of Seattle police has been released, in which a 7-year-old boy was hit with pepper spray during a peaceful protest. The videographer was then arrested by police a week later on a charge of pointing a laser pointer in a police officer’s eye; he was taken to jail and denied bail, though no charges were filed against him.](#)
- June 15, 2020: [The NYPD is closing down its plainclothes unit that has been involved in a substantial number of shootings.](#)
- June 16, 2020: [Armed militia members in Albuquerque have been detained after shooting a protester at a demonstration in which a crowd attempted to tear down a monument of Spanish conquistador Juan de Onate. New Mexico Governor Michelle Lujan Grisham responded “To menace the people of New Mexico with weaponry — with an implicit threat of violence — is on its face unacceptable; that violence did indeed occur is unspeakable.”](#)
 - June 8, 2020: [Groups of armed civilians have turned up at Albuquerque’s Black Lives Matter demonstrations, and have admitted to coordinating with police. The dispatch radio has called these armed men “heavily armed friendlies”.](#)
- June 18, 2020: [An unusual number of police officers called out sick in Atlanta after officers were charged in the death of Rayshard Brooks, with only two sergeants and one officer showing up in one of Atlanta’s 6 police zones.](#)
- June 21, 2020: [Vehicle attacks are on the rise across the U.S. as extremists target protesters. At least 50 ramming incidents have been reported since late May.](#)
- June 23, 2020: [A ‘Save America Rally’ was scheduled in New Orleans to challenge protests that called for removal of Confederate statues.](#)
- June 27, 2020: [49% more NYPD officers filed for retirement year-over-year in the wake of the George Floyd protests.](#)
- June 27, 2020: [170 Atlanta police officers called out sick the day after officers were charged in Rayshard Brooks’ death.](#)
- June 27, 2020: [A protest supporting police officers and Blues Live Matter in Massachusetts, organized by Super Happy Fun America, drew a larger crowd of counterprotesters than protesters.](#)
 - [Some pro-police protesters flew Nazi symbols, including the Black Sun flag.](#)
- August 6, 2020: [President Trump has called to ban TikTok and WeChat in 45 days after TikTok was used to organize a digital protest against his rally in Tulsa, OK.](#)

Riots

- January 15, 2020: [As a point of reference, riots only broke out in 100 American cities when Martin Luther King, Jr. died.](#)
- March 26, 2020: [Immigrants in US detention centers are not given any masks or hand sanitizer, and are being kept in conditions that don't allow for any social distancing.](#)
- March 27, 2020: [Wuhan citizens have rioted after being prevented from moving freely through China.](#)
- March 30, 2020: [100 prisoners in Thailand rioted in Burirm Prison over COVID19 fears, and 11 broke out.](#)
- April 5, 2020: [Influencers and movie stars are now sharing 5G/coronavirus conspiracy theories](#)
- April 7, 2020: [Iran has seen riots in 10 prisons across the country in 3 weeks.](#)
- April 9, 2020: [100 prisoners rioted in Monroe Correctional Complex due to COVID19 fears.](#)
- April 9, 2020: [Prisoners have rioted in Washington State, Louisiana, and in federal prisons around the country.](#)
- April 10, 2020: [50 prisoners rioted in Lansing Correctional Facility in Kansas due to COVID19 fears.](#)
- April 18, 2020: [53 5G cell towers have been set on fire across the UK due to coronavirus conspiracy theories.](#)
- April 25, 2020: [71% of jobless Americans \(at least 8 million people\) did not receive their March unemployment checks.](#)
- May 6, 2020: [77 5G cell phone towers have been set on fire in the UK due to a conspiracy theory about how coronavirus is linked to 5G rollout.](#)
- May 21, 2020: [First Pentecostal Church in Mississippi, which sued the city of Holly Springs to allow them to reopen, has been destroyed by arson.](#)
- May 29, 2020: [On the third night of protesting George Floyd's death, Minneapolis began rioting. The 3rd police precinct was abandoned by police and set on fire by protesters. 170 buildings were damaged or looted in St. Paul. A black CNN reporter was arrested while on-air, while a white correspondent nearby was not. The state patrol and national guard were called in to disperse protesters.](#)
- May 29, 2020: Protests and riots have broken out across the United States following George Floyd's death, after a third day of protest became a riot that burned down a police precinct.
 - [A horse-mounted officer trampled a woman who had her back turned in Houston, TX.](#)
 - [A police officer attempting to detain someone in a protest getting fought off by a crowd in Los Angeles, CA.](#)
 - [A car drove through a protest in Bakersfield, CA.](#)
 - [A pile of loose bricks was left by a courthouse with no obvious construction nearby.](#)

- [Flashbang grenades and tear gas canisters were used on protestors in Oakland, CA.](#)
- [The rioters who started the looting in Oakland, CA came with hammers, face masks, and more, and hit multiple businesses.](#)
- [Two Federal Protective Service officers were shot, and one was killed, during the protests and riots in Oakland, CA last night.](#)
- [Rioter attacking a vehicle's passenger-side window during a highway shutdown in San Jose, CA.](#)
- [Police shot pepper balls directly at live reporters in Louisville, KY.](#)
- [LA has declared unlawful assembly throughout downtown LA after protestors closed the 110 freeway and vandalized cars.](#)
- [Police fired beanbags at protestors in San Jose, CA that had their hands in the air.](#)
- [Police officer indiscriminately maced a crowd while driving by in Minneapolis.](#)
- [NYPD shoved a protester to the ground so hard she had to go to the ER.](#)
- [The 88th Precinct in New York was overrun, and the 84th and Brooklyn North Precinct was under siege.](#)
- [The New York bus driver union refused to transport protestors for the NYPD.](#)
- [Minneapolis bus drivers refused to transport protestors to jail.](#)
- [Minneapolis police arrested a black journalist on air who was attempting to move to where they wanted him.](#)
- [There are now ongoing protests and/or riots in Minneapolis, St. Paul, Los Angeles, San Jose, Louisville, NYC, Bakersfield, Houston, Columbus, Washington D.C., Detroit, Atlanta, Cincinnati, Las Vegas, Charlotte, Knoxville, Milwaukee, Austin, Oakland, Denver, Dallas, Chicago, Boston, New Orleans, and Kansas City.](#)
- [The Secret Service has locked down the White House for an hour in response to protestors outside the gates.](#)
- [Brian Kemp has declared a state of emergency in Fulton County \(home of Atlanta\) due to escalating protests. Protesters set fire to police cars, struck officers with bottles, vandalized the headquarters of CNN, and broke into a restaurant.](#)
- [The Pentagon has put the military police on alert to go to Minneapolis if called, from Fort Bragg, Fort Drum, Fort Carlson, and Fort Riley.](#)
- May 30, 2020: [The Governor of Missouri, joined by the mayors of Saint Paul and Minneapolis, have reported that every person arrested in Saint Paul the night before was from out of state, and they blame organized outside groups for fomenting unrest.](#)
- May 30, 2020: [The Governor of Minnesota has mobilized the state's entire National Guard, an action that has never happened before in the 164-year history of the guard, in order to combat white nationalists that have descended on Minneapolis and Saint Paul.](#)
- May 30, 2020: [President Trump has threatened White House protestors with "vicious dogs" and "ominous weapons" and has called for MAGA night at the White House to combat protestors.](#)

- May 31, 2020: [May 31 coverage of protests and riots across the U.S.](#)
- June 5, 2020: [The Pentagon has ordered all remaining active-duty troops to leave the Washington area. The 82nd airborne left the day before.](#)
- June 12, 2020: [A 15-year-old has been charged with setting fire to a Boston police cruiser during city riots.](#)
- June 20, 2020: [Protesters have toppled the statue of a Confederate general in Washington, D.C. and set it on fire.](#)

Triggers

- May 29, 2020: [On May 25, a black man named George Floyd was apprehended by Minneapolis police officer Derek Chauvin. Chauvin knelt on George Floyd's neck for 8 minutes and 46 seconds \(3 minutes after Floyd stopped moving\), and killed Floyd on camera, as Floyd repeatedly said "I can't breathe". Chauvin has since been fired and arrested on charges of 3rd degree murder. The murder has sparked protests across the country.](#)
- June 14, 2020: [Rayshard Brooks was found sleeping in his car at a Wendy's in Atlanta. Police were called to remove him. They woke him up, there was an altercation, he attempted to run away and was shot twice in the back. Atlanta rioted immediately, burning down the Wendy's he was shot at and blocking the nearby I-75 interstate, and the officer was fired.](#)

Violence

Incitement

- August 1, 2019: [The FBI has warned that conspiracy theories are a new domestic terror threat, specifically mentioning the QAnon conspiracy that believes in a deep state conspiracy against President Trump.](#)
- May 29, 2020: [President Trump tweeted the phrase "when the looting starts, the shooting starts", which was language used by a Miami police chief in 1967 in the wake of riots. 2.5 hours later, Twitter overlaid a warning over the tweet, disabled its ability to be shared or responded to, and stated "This Tweet violated the Twitter rules about glorifying violence"](#)
 - May 29, 2020: [Miami police chief Walter Headley used this phrase during hearings about crime in Florida in 1967, sparking outrage.](#)
- May 30, 2020: [President Trump has threatened White House protesters with "vicious dogs" and "ominous weapons" and has called for MAGA night at the White House to combat protesters.](#)
- May 31, 2020: [Citizen journalists are observing piles of loose bricks being staged in multiple cities around the country, including Minneapolis, Atlanta, Los Angeles, New](#)

[York, Seattle and Fayetteville. In most cases, the bricks have been placed along demonstration routes.](#)

- June 1, 2020: [Republican Representative Matt Gaetz has suggested that protesters demonstrating against police brutality should be hunted down like terrorists.](#)
- June 3, 2020: [The White House has been forced to retract a claim that viral videos prove ANTIFA is behind violence.](#)
- June 3, 2020: [Senator Tom Cotton releases an editorial in the New York Times calling for America to send troops into its own cities to quell protests.](#)
- June 4, 2020: [President Trump has shared a letter calling peaceful protesters at the church in Lafayette Square terrorists.](#)
- June 5, 2020: [A Twitter account that copied President Trump's Twitter posts word-for-word was banned by Twitter within 3 days of being set up.](#)
- June 11, 2020: [A Facebook account that copied President Trump's Facebook posts word-for-word was banned by Facebook for incitement of violence. After this story ran, the account was restored without notice.](#)
- June 13, 2020: [President Trump scheduled his first Presidential campaign rally for Tulsa, Oklahoma, on June 19th. Tulsa is the site of a race massacre 99 years ago \(as of June 1\) and June 19th is known as Juneteenth, a celebration emancipation of slaves after the Civil War ended. Public backlash erupted as this schedule was seen as a provocation and incitement to violence, and President Trump decided to reschedule the event to June 20th as a result.](#)
- June 16, 2020: [Facebook has taken down 358 Facebook accounts and 172 Instagram accounts of Proud Boys members, and 406 Facebook accounts and 164 Instagram accounts of American Guard members, after internal monitors noticed traffic from both organizations indicating that they intended to send armed agitators to George Floyd protests.](#)
- June 20, 2020: [Eric Trump called Black Lives Matter protesters 'animals' and blamed them for burning down churches at President Trump's first campaign rally in Tulsa, OK.](#)

George Floyd Protests & Police Violence

- Continuously updated: [A Github repository of **continuously-updated police violence videos cataloged by city and state**, that can be accessed both via API and manually. The collection now has **several hundred videos from across the United States**.](#)
 - [Related subreddit in which incidents are reported.](#)
- Continuously updated, as of June 13, 2020: [Activists have compiled a spreadsheet of 689 videos of police violence at George Floyd protests across the United States.](#)
- Continuously updated, as of June 16, 2020: [A second community-maintained spreadsheet that breaks primary source videos of police brutality down by categories: violence against protesters, against press, against EMTs/medics, and riot planning.](#)
- October 17, 2006: [The FBI's redacted report on the infiltration of white supremacy into law enforcement: it specifically notes that the primary threat relates to compromised intelligence collection, where white supremacists within law enforcement can warn white](#)

[supremacist groups of pending actions, and explicitly mentions law enforcement access to elected officials as potential targets for violence.](#)

- July 2, 2014: [The American Conservative writing about how police brutality is systemic, not anecdotal.](#)
- October 21, 2016: [The FBI warned of white supremacists infiltrating local and state law enforcement in 2006, and by 2016 nothing appeared to have been done to address the problem. Neo-Nazi gangs were found in the LAPD, and officers and entire agencies were found to have white supremacist ties in Illinois, Ohio and Texas.](#)
- May 29, 2020: [White supremacists are hoping to turn the George Floyd protests into a new civil war.](#)
- May 30, 2020: [Right-wing, white supremacist infiltrators and agitators are deliberately taking advantage of George Floyd protests and are starting riots.](#)
- May 30, 2020: [The National Guard has shot at Minneapolis residents standing on their own porches filming humvees driving through their neighborhood.](#)
- May 31, 2020: [Police in Minneapolis have found several stolen vehicles with removed license plates, full of incendiaries, scattered around town. A routine traffic stop resulted in a driver getting out of the vehicle, pulling out a gasoline can, and attempting to light the vehicle on fire.](#)
- May 31, 2020: [Ohio Representative Joyce Beatty was pepper-sprayed by police while attending a protest.](#)
- May 31, 2020: [U.S. law enforcement is deliberately targeting journalists; some videos of encounters are listed here. A black CNN reporter was arrested on a live show while his white counterpart was not, pepper balls were fired at a live NBC reporter unprovoked, and more.](#)
- May 31, 2020: [Police have been caught all across the U.S. violently attacking peaceful protesters, who are protesting police brutality.](#)
- May 31, 2020: ["Police Erupt in Violence Nationwide": police have been tear gassing protesters, driving vehicles through crowds, opening fire on journalists or homeowners on their own property, and more.](#)
- May 31, 2020: [Across the country, various police agencies have been allowing white vigilantes to inflict violence upon protesters.](#)
- May 31, 2020: [Police tear-gassed a 3-year-old and her mother who were not part of the George Floyd protests, and who were just trying to go home. Protesters rendered medical aid to the toddler, and cleaned tear gas off of her, only to get tear-gassed again.](#)
- June 1, 2020: [Neo-Nazis are actively calling for anti-semitic and infrastructural terrorist acts during the George Floyd protests now that police forces are spread thin.](#)
- June 1, 2020: [The U.S. Park Police shot injured peaceful protesters and medics treating peaceful protesters with smoke bombs and pepper balls in order to clear an area in front of a church for Donald Trump to take a picture with a Bible.](#)
- June 1, 2020: [First-hand account from a clergywoman who was treating injured protesters in front of St. John's Episcopal Church.](#)

- June 1, 2020: [Journalists were attacked 140 times across the U.S. in between May 28 and June 1. In the majority of cases, the press were identified and targeted, and not accidentally involved.](#)
- June 1, 2020: [Matthew Lee Rupert from Galesburg, Illinois was arrested for bringing explosive devices to Minneapolis and handing them out to people in crowds.](#)
 - [Rupert had expressed admiration for President Trump on Facebook the week before going to Minneapolis.](#)
- June 1, 2020: [DHS sent a memo to law enforcement officials around the US on May 29 warning that **extremists could attempt to exploit the George Floyd protests**; it cited “previous incidents of domestic terrorists exploiting First Amendment-protected events” as a reason the protests **may be targeted by “domestic terrorist actors”**. It also revealed that the FBI observed “a **white supremacist** extremist Telegram channel incited followers to engage in violence and **start the ‘boogaloo’**.”](#)
- June 2, 2020: [Despite President Trump and Attorney General Barr’s statements and blame to the contrary, the FBI has ‘no intelligence’ linking ANTIFA to weekend violence in the George Floyd protests.](#)
- June 2, 2020: [Police smash car windows while walking past during a peaceful Black Lives Matter protest.](#)
- June 2, 2020: [A truck driver was arrested after driving through a protest on a Minneapolis interstate.](#)
- June 2, 2020: [Protesters sheltered in a DC home after being corralled and pepper-sprayed by police, and unable to leave the protest.](#)
- June 2, 2020: [Soldiers caught a heavily-armed man named Gregory Wong posing as a National Guardsman in Los Angeles.](#)
- June 2, 2020: [Facebook shut down a far-right Facebook group called American Guard that was planning to bring weapons to protests.](#)
- June 2, 2020: [Dozens of protesters took shelter in 4 private homes in Washington, D.C. after a group of protesters was corralled and prevented from dispersing. Protesters were attacked with mace as they fled into the homes.](#)
- June 2, 2020: [Armored police used tear gas and rubber bullets to clear injured protesters, and an Episcopal priest and a seminarian attempting to provide medical aid, from Lafayette Square in front of St. John’s Episcopal Church in order for President Trump to take pictures with a bible. Reverend Gini Gerbasi stated “They turned holy ground into a battleground.”](#)
 - June 1, 2020: [Reverend Gini Gerbasi released a first-hand account of being attacked on Facebook.](#)
- June 2, 2020: [A first-hand contemporary account of a 63-year-old white man named Zeke Richardson who attended a protest, watched the LAPD instigate a riot, got falsely arrested, and turned into a BLM activist.](#)
- June 3, 2020: [No law enforcement agency admits to using tear gas canisters to clear the church at Lafayette Square, but tear gas canisters and other explosive devices have been found on the scene.](#)

- June 4, 2020: [Police in Columbus, OH shoot rubber bullets at protesters standing dozens of yards away from them.](#)
- June 4, 2020: [Police deliberately destroyed a medic area during protests in Asheville, North Carolina, and Mayor Esther Manheimer is demanding answers as to why.](#)
- June 4, 2020: [82.7% of assaults on journalists during George Floyd protests were by police; an additional 45 journalists have been arrested by police.](#)
- June 4, 2020: [Seattle residents living near protests got tear gassed in their own homes by police due to indiscriminate usage.](#)
- June 5, 2020: [Providence, RI police held a black firefighter in full uniform at gunpoint in front of his workplace.](#)
- June 8, 2020: [The Minnesota Department of Public Safety has confirmed that officers from two law enforcement agencies punctured and deflated car tires during protests; these vehicles belonged to reporters, medics, and protesters.](#)
 - [Additional videos can be found here.](#)
- June 9, 2020: [There is no sign of ANTIFA in any court filings by the Department of Justice thus far across 51 cases related to federal charges brought by the government, linked to civil unrest.](#)
- June 10, 2020: [Black Missouri drivers are 91% more likely to be stopped, according to the Missouri state attorney general.](#)
- June 10, 2020: [The FBI, Department of Homeland Security, and National Counterterrorism Center have issued a nationwide intelligence bulletin warning that white supremacists and racist terrorists pose the greatest risk of violence across the country. It warns of threats from left-wing and anarchist groups as well, but barely mentions ANTIFA. ““We assess the greatest threat of lethal violence continues to emanate from lone offenders with racially or ethnically motivated violent extremist ideologies and \[domestic violent extremists\] with personalized ideologies”.](#)
- June 11, 2020: [Two law enforcement agencies in Minneapolis have confirmed that they knifed the tires of multiple vehicles believed to belong to protesters; the vehicles belonged to journalists, medics, and others.](#)
- June 16, 2020: [On May 29, one federal police officer was killed and another injured during Oakland’s George Floyd protests. The violence was framed as evidence that Oakland’s protests were becoming violent. Police have now arrested the two men responsible for the shooting, at least one of which has ties to the ‘boogaloo’ movement.](#)
- June 16, 2020: [Dylan Shakespeare Robinson, a white man from Colorado, was arrested for setting fire to Minneapolis’ 3rd precinct, lending credence to the theory that out-of-town agitators came to Minneapolis to cause damage in the wake of protests.](#)
- June 17, 2020: [A man was arrested in Portland, OR after driving his car through protesters and injuring 3.](#)
- June 17, 2020: [Five people of color have now been found hung from trees in public locations across the United States, including in elementary school parking lots, across from city halls, and other venues. All have been initially declared suicides. Some have been protesters that attended George Floyd protests.](#)

- June 25, 2020: [Armed men in an unmarked van have abducted a protester off the streets of Columbus, OH.](#)

Pandemic-Related Violence

- April 6, 2020: [France has seen a 30% increase in domestic violence across the country since shelter-in-place began, and domestic violence appears to be increasing across the world.](#)
- April 16, 2020: [A 72-year-old man was assaulted on a bus in Baltimore because he couldn't stop coughing.](#)
- April 17, 2020: [Orange County Sheriff's Department is reporting a 25% increase in domestic violence calls during shelter-in-place.](#)
- April 20, 2020: [Protestors at the Arizona Capitol protests were caught on camera cheering about shooting Democrats.](#)
- May 2, 2020: [A city in Oklahoma has lifted its emergency declaration requiring customers to wear masks less than 24 hours after it was proclaimed, after threats of violence to employees in stores across the city.](#)
- May 4, 2020: [The FBI has seized 4 pipe bombs from the home of an anti-lockdown protestor and protest organizer in Colorado.](#)
- May 7, 2020: [A Pennsylvania parade celebrating healthcare workers was interrupted by an SUV driver waving a gun, who crashed in front of the Mercy Fitzgerald Medical Center.](#)
- May 7, 2020: [Two McDonald's employees were shot after a customer was angry that the dining room was closed.](#)
- May 14, 2020: [The Santa Ana \(Los Angeles\) police department has reported a 50% increase in armed robberies since the lockdown began.](#)
- May 15, 2020: [Researchers are warning that identity-based polarization around pandemic response is escalating into violence across the US, and could become broadly dangerous if left unchecked. Shootings, fist fights, and intimidation over mask-wearing has already occurred, and armed right-wing groups have threatened contact tracers and people who "snitch" on health order violations. 76% of Democrats currently self-report that they wear a mask when they leave the house, as opposed to 59% of Republicans.](#)
- May 19, 2020: [A Denver man has been arrested on suspicion of attempted murder after opening fire in a Waffle House after being told to wear a face mask.](#)
- June 27, 2020: [An immunocompromised woman was deliberately coughed on in a Jacksonville store after confronting another woman for not wearing a mask.](#)

Xenophobia, Racism, Homophobia & Regionalism

- Continuously updated: [Wikipedia is keeping a **running list of xenophobic and racist incidents all over the world** as a result of the pandemic. This includes regionalism within China against people from Hubei and Wuhan, broad racism against Chinese people across the world, and significant discrimination of people from outbreak centers](#)

- May 22, 2019: [The Proud Boys' \(white supremacists in Washington State\) Telegram chats have been leaked showing them planning violence ahead of rallies.](#)
- June 3, 2019: [In a study of 2,900 current police officers and 800 retired police officers, 20% had posted racist, violent content to Facebook.](#)
- August 14, 2019: [There is a clear correlation between President Trump's campaign events and incidents of prejudiced violence. There was an anomalous spike of hate crimes that were concentrated in counties where President Trump won by large margins, and counties that hosted a rally saw hate crimes more than double over similar counties that didn't.](#)
- March 26, 2020: [White supremacists **believe the pandemic will help drive recruitment numbers.**](#)
- April 12, 2020: [The African community in Guangzhou, China was **broadly evicted and discriminated against** after becoming scapegoats for virus spread.](#)
- April 13, 2020: [Muslims are **being scapegoated** in India for infecting the Hindu majority, and violence is breaking out across the country.](#)
- April 19, 2020: [Indian hospitals are now **refusing to admit muslims.**](#)
- April 22, 2020: [President Trump **suspends immigration** to the US for 60 days.](#)
- April 24, 2020: [Five Asian-owned businesses have been vandalized in San Jose in one night.](#)
- May 11, 2020: [Following a large outbreak in South Korea after a gay man went clubbing, gay men are being doxxed and outed online.](#)
- June 1, 2020: [A white man who illegally carried a customized AR-15 at a Chicago George Floyd protest was allowed to walk away without incident by police.](#)
- June 2, 2020: [Facebook has shut down pages and accounts associated with a far-right hate group called American Guard, and the Proud Boys, whose members were discussing bringing weapons to George Floyd protests.](#)
- June 3, 2020: [Synagogues, Jewish schools, and Jewish memorials were vandalized with anti-semitic, anti-Israel slogans in Los Angeles during the looting surrounding the George Floyd protests.](#)
- June 5, 2020: [Police in Salem, Oregon have been caught collaborating with armed white men, telling them to get inside stores to avoid being arrested for violating curfew.](#)
- June 8, 2020: [A Virginia man, Harry H. Rogers, who drove his car into a Black Lives Matter protest is the head of the state's Ku Klux Klan.](#)
- June 13, 2020: [A black man named Robert Fuller has been found hung from a tree in front of the City Hall of Palmdale, California after attending a Black Lives Matter protest. Local authorities are claiming the death was a suicide but are still investigating.](#)
- June 13, 2020: [A Marine Corps veteran showed up at a George Floyd protest on May 30 heavily armed, standing side-by-side with police officers, and was arrested on federal charges of impersonation of an officer. He was identified because his arm featured tattoos referencing the SS, a military unit of the Nazis.](#)
- June 16, 2020: [NYPD cruisers are playing the ice cream truck jingle in black neighborhoods at night, which is interpreted by many as a racist dog whistle to blackface minstrel shows.](#)

- June 16, 2020: [A burning cross was placed in the yard of a Black 17-year-old man named Travon Brown, who organized and marched in a Black Lives Matter protest in Marion, VA.](#)
- June 17, 2020: [Oakland, CA has discovered several nooses found hanging in trees around Lake Merritt and is investigating them as symbols of racial violence.](#)
- June 17, 2020: [Since May 27, a woman, four men, and a teenage boy \(mostly Black, but also hispanic\) have been found dead from hangings in Portland, OR, two South California cities, Houston, TX and New York. All of the hangings have been in public venues. Almost all have been immediately ruled suicides by authorities; some are now being investigated as potential homicides after the initial suicide declaration.](#)
- June 18, 2020: [Facebook has removed President Trump's campaign ads for violating their 'organized hate' policy. The 88 ads featured an upside-down triangle used by the Nazis in WW2 to identify liberals and political dissidents in concentration camps. The ads were posted on the President's official account, the Vice President's account, and the official Trump campaign account.](#)
- June 21, 2020: [Bubba Wallace, NASCAR's only black driver, has found a noose in his garage after NASCAR removed Confederate flags from its events. NASCAR has stated that this move only strengthens their resolve in making racing open and welcoming to all.](#)
- June 22, 2020: [A Trump supporter waving and wearing a Confederate flag in Branson, Missouri yelled "I'll teach my grandkids to hate you!" at Black Lives Matter protesters.](#)
- June 22, 2020: [President Trump has suspended visas \(including visas for both seasonal workers and H1-B tech workers\) and barred hundreds of thousands of foreigners from seeking employment in the United States. The ban could keep as many as 525,000 people out of the country for the rest of the year.](#)
- June 23, 2020: [Ethan Melzer, 22, was indicted for planning an attack on his U.S. Army unit by sending sensitive details about the unit to white supremacist group Order of the Nine Angles \(O9A\). His plot was thwarted by the FBI and U.S. Army in late May.](#)
- June 26, 2020: [White supremacists are now actively sharing videos of violence and incitement on Telegram. At least 200 white supremacist Telegram groups, with an average of 1,773 members, have become more active during the George Floyd protests and have actively incited violence. They have migrated to Telegram because it is much less active in moderation than other social media networks.](#)

Food & Supply Shortages

Bankruptcy - Agriculture

- April 17, 2020: [President Trump just announced a farm industry bailout of \\$19B now, with another \\$14B in July, and \\$3B in government purchases of agricultural products. Unfortunately, **there are 2M farms in the US**; this means **each farm would get \\$9,500 on average and purchases of \\$50 a month** in order to last for the next 3 months.](#)

Concurrent Food Crises

- February 17, 2020: [25% of the world's pigs, and 60% of China's domestic pigs, have died in a single year from the current swine flu epidemic. The disease is not contained, and is still spreading widely.](#)
- March 5, 2020: [China has failed to contain its African swine fever epidemic. 25% of the world's hogs died last year, and prices for pork in China increased by 3x year over year.](#)
- April 10, 2020: [Africa has already been hit by the worst wave of locusts in 70 years; now a wave 20 times larger has just struck. Demand for food will spike while supply is low.](#)
- April 16, 2020: [By June, locust swarms in Africa could increase by 500X because the pandemic is directly interfering with local response measures, and the swarms are infesting countries that haven't dealt with them in decades.](#)
 - February 6, 2020: [The locusts themselves are toxic and can't be eaten.](#)
- April 16, 2020: [There appears to be a once-in-12,000-year megadrought in the Western US that could last for 10 years or more.](#)
- April 20, 2020: [CO2 production across the US could be down by up to 50% as a result of the oil price war and resulting drop in continuous ethanol production; this means CO2 deliveries to water treatment/purification utilities are down to levels as low as 33% nominal.](#)
- May 18, 2020: [The Dust Bowl conditions of the 1930s are now twice as likely to recur in the region because of climate breakdown.](#)
- June 9, 2020: [The UN is warning that this could be the worst food crisis for at least 50 years due to resurgence in global poverty induced by the pandemic.](#)
- June 26, 2020: [Paraguay, Argentina, and Brazil are suffering from locust outbreaks \(40M strong\) similar to Africa.](#)

Demand Spikes

- January 12, 2006: [Hospitals are adopting just-in-time inventory management techniques, in which they don't keep significant inventories of pharmaceuticals or medical supplies in order to operate efficiently. This puts them at severe risk of supply shortages during a pandemic.](#)
- March 4, 2020: [The Strategic National Stockpile held 12 million N95 masks and 30 million medical surgical masks at the start of the COVID-19 pandemic. The Department of Health and Human Services has stated the U.S. only has 1% of the required respirator masks it needs to combat a full-blown pandemic, estimating a need for 3.5 billion.](#)
- March 5, 2020: [Nurses in Washington and California are reporting dramatic shortages in personal protective equipment like masks and face shields in advance of the COVID-19 pandemic. Only 63% had access to a face mask. As of March 5th, only 29% of hospitals in the US had a plan for how to deal with COVID patients.](#)

- March 18, 2020: [Hospital workers in a 51-hospital chain in Washington are making masks and protective gear from office supplies because they have run out of gear. They are now out of face shields and will run out of masks in a few days.](#)
- March 20, 2020: [There is a public citizen's movement to crowd source medical supply designs and open source medical supply manufacturing to respond to the drastic supply shortage affecting hospitals across the world.](#)
- April 8, 2020: [Some food banks are seeing **demand increases over 9x**; food costs for those food banks have increased more than 10x in some places.](#) because many usual donors (restaurants, hotels, casinos) have shut down due to the pandemic.
- April 9, 2020: [San Antonio, Texas is **already seeing 15,500 households \(3% of city households\) wait in line for food bank aid only two weeks after shelter-in-place** due to the combination of unemployment and food scarcity.](#)
- April 14, 2020: [Demand for San Francisco food banks **increased by 25X over 2 weeks of shelter-in-place.** The overwhelming demand is due in major part to new unemployment.](#)
- April 24, 2020: [U.S food banks are running low on staples; the largest food bank has **no dry goods.** 1/3 of New York's food banks have closed](#) due to lack of donations, supplies, and volunteers. Before the pandemic, 1 in 7 Americans relied on food banks, and demand has **doubled or tripled** according to some food bank operators.
 - August 20, 2014: [Source for 1 in 7 Americans relying on food banks.](#)
- May 12, 2020: [US grocery costs have jumped the most in 46 years, led by rising prices for meat and eggs.](#)
- May 13, 2020: [The World Food Bank believes we are seeing a **supply-side crisis** and a **demand-side crisis at the same time** during this pandemic, and that an additional 130 million people are at risk of starvation. Prices of staples like wheat and cassava have jumped between 40-60% in locations like Sudan \(which don't make their own food\) in two months, and India, Pakistan and Myanmar have seen staples price increases of 20-30%. **Surges in food prices helped launch the Arab Spring uprisings around the world.**](#)
- May 18, 2020: [The US is facing a shortage of bicycles as anxiety over public transit and desire to exercise sends demand surging.](#)
- May 20, 2020: [87% of nurses surveyed by National Nurses United reported having to reuse single-use disposable respirators or masks with COVID-19 patients. 27% of nurses reported having to provide care to COVID-19-positive patients without appropriate PPE.](#)
- June 2, 2020: [Non-hospital physician practices desperately need PPE before reopening, and cannot currently access supplies. The federal government has focused on directing medical supplies to primary hospital systems but has not directed PPE to physicians despite calling to reopen them.](#)
- June 27, 2020: [The US is likely to see a shortage of more than 200 pharmaceutical drugs if the COVID-19 pandemic continues due to international supply chain shutdowns.](#)

Distribution & Logistics

- March 24, 2020: [Air shipment rates are up 70% on certain routes. 60% of air cargo capacity has been removed from the market as a result of travel bans and lack of commercial flights \(that usually also carry air cargo\).](#)
- April 14, 2020: [100,000 sailors in the global merchant marine **aren't being allowed to leave their ships** or go home, as no country will let them off-board. This is creating stress in the short term and potential distribution issues in the long term.](#)
- April 14, 2020: [Flour isn't staying in stock because demand for retail-packaged flour has jumped, while restaurant-packaged flour has cratered. Industrial scale flour distributors are having to retool in order to package the flour for retail.](#)
- April 19, 2020: [Safeway is having outbreaks in its grocery distribution hubs \(51 positive, 1 dead\), exacerbating food distribution issues.](#)
- April 28, 2020: [Dairy farmers in the US are now dumping 3.7 million gallons of milk a week, and chicken processors are destroying 750,000 eggs a week. The distribution system is having a hard time redistributing because many agricultural businesses have become consolidated and centralized supply chains; 50 factories process 98% of the US' beef, 88% of hogs are slaughtered in million-head capacity plants.](#)
- May 12, 2020: [Grocery prices increased by the most they've ever increased in 50 years in April 2020. Meat, poultry, fish and eggs increased in price by 4.3%, cereal and bakery products increased by 2.9%, and fruits and vegetables increased by 1.5% in one month. Cereal and bakery products increased more in one month than they ever had **since counting began in 1919.**](#)
- May 17, 2020: [Federal contractors are teaming up with nonprofits to package 900,000 food boxes containing meat, dairy, fruits and vegetables to those in need as a part of the \\$3B Trump administration plan to purchase excess food.](#)
- June 16, 2020: [As warnings about meat shortages were issued, and the Defense Production Act was invoked to protect meat processors, Americans were never at risk of a shortage; hundreds of millions of pounds of meat were exported, exceeding 2019 levels. The meat industry additionally never drew down amounts in cold storage warehouses - the amounts grew by 40 million pounds instead.](#)
- June 18, 2020: [200,000 sailors in the global merchant marine have been stranded at sea by port closures and the collapse of long-haul aviation. The International Transport Workers' Federation, which represents 50% of the world's seafarers, stated contracts expired on Tuesday and it is working to get crews to stop working and go home for the first time in months. Shipping companies agreed to suspend crew changes in March, but this was thought to be a temporary solution - some seafarers have now been aboard for more than a year.](#)

Fisheries

- April 8, 2020: Commercial fisheries are at risk of **widespread closure** across the board as primary customers (restaurants) are closed, consumption patterns change (“Americans spend more than 2x more on fish at restaurants than at home”), and markets are closed; recovery efforts through the stimulus bill have been said to be at best 20% of what’s needed to survive; prices for lobster have dropped from \$10/pound to \$2, crab dropped from \$4 to \$.50, and there’s almost no demand for tuna or oysters; grocery stores are cutting seafood offerings and focusing on meat. **Demand for seafood is down 80-90% across the board.**
- April 18, 2020: The global fishing fleet is tied up at port because worldwide demand for fish has fallen dramatically. Half of Spain’s fishing fleet are staying in port. On the bright side, fish stocks have a chance to recover.
- May 10, 2020: Massachusetts fishermen are now selling direct to the public for the first time. The state has waived its expedited seafood permit fees in order to allow fishermen to sell quickly. Typically, Bay State fishermen depend on **overseas and restaurant sales to sell up to 85% of their product.** In 2017, **68% of all seafood was purchased in restaurants.**

Food Insecurity

- July 31, 2020: 30 million Americans reported they didn’t have enough to eat the week before July 21 to the census bureau, largely due to pandemic unemployment. Food insecurity has been disproportionately impacting communities of color. Feeding America, a network of 200 food banks, has estimated that 54.3 million Americans will be food insecure over the next 12 months.

Meat & Dairy Industry

- April 6, 2020: Dairy producers are dumping millions of gallons of milk because they **only serve restaurants and not consumers**; retooling to directly serve consumers is incredibly expensive; as dairy farmers (and equivalent) lose money they risk closure because they can’t pivot.
- April 10, 2020: Testimonial from a dairy farmer claiming “**I have worked here 40 years, and have less than what I started with**” as a result of the economic effects of COVID19.
- April 12, 2020: Smithfield Foods (in South Dakota), which **supplies 5% of the pork to the US market and owns 25% of the hogs in the US**, is closing its processing plant indefinitely starting 4/12 during the pandemic based on worker illnesses and deaths.
- April 12, 2020: **40% of the COVID19 cases in South Dakota** are employees of the Smithfield Foods plant.

- April 12, 2020: [Over 200 workers at Smithfield tested positive for COVID19, out of 3,700 employees at the plant.](#)
- April 13, 2020: [12 major meat production plants across the US and Canada have closed, reduced production significantly, or otherwise paused operations as a result of the pandemic due to illnesses on-site, walk-offs, and governmental shut-down due to outbreaks.](#)
- April 14, 2020: [Trump administration rolls back regulations around food inspection, freezes enforcement, and rolls back rules for the FDA, EPA and USDA](#)
- April 16, 2020: [5 Tyson employees have now died of COVID-19, and Tyson continues to not provide sick leave.](#)
- April 16, 2020: [Tyson Fresh Meats in Waterloo, Ontario has allowed workers with respiratory symptoms to continue working, and are covering up presence of COVID19.](#)
- April 17, 2020: [A Cargill meat processing plant in Alberta has become a super spreading outbreak location, and now represents 15% of the cases in Alberta, Canada.](#)
- April 20, 2020: [The Cargill beef processing plant now represents 484 cases, and has been shut down.](#)
- April 22, 2020: [Tyson Foods suspended operations today at an Iowa plant that represents 3.9% of pork processing capabilities in the U.S; more than 180 cases of COVID19 have been linked to the plant.](#)
- April 22, 2020: [15% of US hog-slaughtering capacity is now offline due COVID19 outbreaks; 50% of Canada's beef processing capacity is now offline; a senior account executive at Archer Financial Services believes meat shortages will be occurring in 2 weeks; only one week's worth of typical pork consumption is stored in the US reserve; slaughterhouse shutdowns are resulting in much higher prices for finished products at retail but lower prices to farmers for hogs, meaning farmers may start slaughtering hog supply; hog futures are down 21%.](#)
- April 22, 2020: [25% of US pork processing capabilities are now offline, up from 5% on 4/11.](#)
- April 22, 2020: [More than 33% of the USA's total meat processing capabilities operate in counties where the rate of COVID19 infection is among the nation's highest; expert opinion is that the plants would choose to continue operating while putting workers at risk, rather than staying closed for long. Smithfield's plant, at 900 cases, is now the biggest outbreak in the country.](#)
- April 22, 2020, but continuously updated: [A map of meat processing plant closures across the U.S Also includes breaking news about every meat industry.](#)
- April 24, 2020: [2 million chickens in Delaware and Maryland will be destroyed due to COVID19-related staffing shortages.](#)
- April 24, 2020: [The US allowed 15 poultry processors waivers to cut chickens faster, typically by crowding more workers onto their production lines; those processors all had 10x the likelihood to have a COVID19 outbreak.](#)
- April 24, 2020: [Workers at a pork processing plant in Missouri are suing Smithfield, claiming Smithfield did not allow for slowing the processing line for basic hygiene requirements like sneezing and coughing into sleeves.](#)

- April 26, 2020: [Tyson foods has taken out a full page newspaper advertisement, in which its chairman John Tyson warns that ‘the food supply chain in America is breaking’.](#)
- April 27, 2020: [Farmers are now culling both full-grown meat animals \(chickens, pigs, cattle\) due to issues feeding them/interrupting their growth cycle, while also euthanizing piglets, chicks, and calves. This articles claims 700,000 pigs across the nation can’t be processed, and must be culled, each week. Farmers are receiving death threats as they have to cull their herds for economic reasons.](#)
- April 28, 2020: [President Trump is ordering meat processors to stay open, granting them liability waivers to prevent employees from suing due to unsafe conditions. Current estimates indicate that 80% of meat processors may be at risk of closure.](#)
- April 28, 2020: [President Trump is using the Defense Production Act to classify meat processing as critical infrastructure, after 20 processing plants across the country have closed due to pandemic outbreaks. The United Food and Commercial Workers International Union estimates **6,500 workers are sick or have been exposed to someone who is sick \(45% of animal slaughtering/processing workers\)**, and that 20 food-processing workers have died.](#)
 - 2017: [The US Bureau of Labor Statistics estimates that there are **14,230 workers** in the animal slaughtering and processing profession.](#)
- April 28, 2020: [13,000 pigs a day will be culled and buried in landfills starting 4/29 due to drop in demand, starting at one plant. U.S. Representative Collin Peterson says **160,000 hogs a day will need to be culled nationwide** to match processing capabilities. Incredible graph of hog price included.](#)
- April 28, 2020: [A firsthand account of what it’s like in a meat processing plant during COVID19, including illustrating working conditions that prevent any social distancing whatsoever.](#)
- April 29, 2020: [262 poultry workers in Maryland \(**75% of infections in Salisbury county**\) have been infected at Perdue Farms’ chicken processing plant.](#)
- April 30, 2020: [Federal health inspectors are afraid to go to work because the USDA isn’t providing any protective equipment whatsoever, while the President orders meat plants to stay open.](#)
- April 30, 2020: [COVID19 cases at a JBS meatpacking plant in Colorado have doubled after reopening, and a 6th employee has died. Another JBS plant is reopening to euthanize 13,000 pigs and not produce pork.](#)
- April 30, 2020: [As a snapshot of the issue with poultry, an egg farmer claims he needs to either find a way to sell 30,000 eggs a day or he needs to euthanize 40,000 hens.](#)
- May 1, 2020: [900 workers \(41%\) test positive for COVID19 at a single Tyson meat plant. 69% of the cases in Cass county are from the meat processing plant.](#)
- May 8, 2020: [The Tyson Waterloo meatpacking plant in Iowa reopened after a two-week closure, and cases rose to 1,031 workers out of 2,800 \(37%\). The plant is currently operating at 50% capacity.](#)
- May 8, 2020: [America is now at **60% meat processing capacity**, with some estimates placing Tyson at as low as **25% processing capacity**. There are 5,000 reported positive cases of COVID19 across the country, in **115 meat processing plants nationwide**. An](#)

[agricultural economist at Purdue believes that 200,000 pigs a day may need to be destroyed across the country. Cows also need to be slaughtered, but the ramifications are much higher: they take 24 months to get to weight, as opposed to the 9 months to get to weight that pigs take.](#)

- May 25, 2020: [9 meat processing facilities have seen outbreaks in Los Angeles, which have been driving local outbreaks in the area.](#)
- June 28, 2020: [371 employees at Tyson's chicken plant in Noel, MO have tested positive for COVID-19. 249 were asymptomatic or presymptomatic at the time of testing. 1,142 employees were tested in total.](#)

Produce

- April 11, 2020: [More than 50% of the food farmers are currently producing in the US is being deliberately destroyed because restaurants are closed, people cook differently when they're at home and don't use the same supplies, and generally demand is through the floor. Retooling to produce consumer-proportional packaging is too expensive for many industrial scale operations. Farmers are actively decreasing their capacity to make food in order to match decreasing demand with closed restaurants. Farmers are already financially insecure, and could go bankrupt as an immediate result of the pandemic.](#)
- April 17, 2020: [Produce Marketing Association believes that \\$5B in produce has already gone to waste as a result of the pandemic, because farmers don't have the ability to distribute product to consumers.](#)
- April 26, 2020: [25% of last year's crop of potatoes in Canada \(1.4M tons worth \\$320M\) is still in storage with no buyers due to the lack of demand. Farmers are planning on planting at least 15% fewer potatoes this season as a result.](#)

Production Issues

- February 20, 2020: [China put 760 million people under varying forms of residential lockdowns, preventing them from going to work and in some cases welding them into their homes. Hundreds of thousands of volunteers have formed a gigantic network of neighborhood watches which are helping prevent citizens from moving.](#)
- March 25, 2020: [China's factories reopened as the rest of the world shut down, causing an imbalance in trade that resulted in mass layoffs in China. Initial projections indicate Chinese exports would contract 20-45% as a result.](#)
- March 26, 2020: [China produces 43% of the world's imports of medical protective equipment, including face shields, protective garments, mouth-nose protective equipment, and goggles, and their manufacturing shutdown coincided with COVID-19 cases ramping up across the world.](#)
- April 2, 2020: [The issues we are having with consumer supplies like toilet paper aren't going to be easily resolved. Consumer goods are made via entirely different processes than industrial/commercial grade supplies, and the demand for consumer](#)

[supplies is spiking due to shelter-in-place orders while demand for industrial/commercial goods is falling off a cliff.](#)

- April 3, 2020: [US PPE and other supply manufacturers are not ramping up, because in the past when they've ramped up to accommodate crises, supply chains have simply off-shored when the crisis is over and refused to pay any sort of premium for American-made goods.](#)
- April 19, 2020: [The illicit drug trade has suffered from massive supply chain failure.](#)
- June 11, 2020: [Nursing homes and other care facilities continue to run short of PPE as federal response continues to falter. 21.4% of nursing homes report having less than a week's supply of PPE. When supplies do arrive, they're of low quality, and many nursing homes are running entirely out of N95 masks.](#)
- June 21, 2020: [There's still a PPE shortage and crisis that isn't being addressed. Larger hospitals are getting some of the supplies they need, but smaller hospitals and medical facilities don't have access to necessary PPE.](#)
- June 26, 2020: [Canada has shifted so much medical supply production onshore that it is almost self-sufficiently producing Personal Protective Equipment.](#)
- July 5, 2020: [China increased raw material production for face masks by 5X from pre-pandemic capacities, and can now make 15X more than U.S. companies can even after they ramped up post-pandemic. It has increased its ability to produce face masks by 12X.](#)
- July 28, 2020: [U.S. hospitals are facing a deluge of fraudulent medical supplies, hoarding, and price gouging as they relax their purchasing requirements in the face of drastic supply shortages. Many imported Chinese medical supplies from new manufacturers have been found to be deficient or fraudulent, and 570 criminal investigations have been opened globally based on fraudulent claims.](#)
- August 4, 2020: [Clorox is reporting it won't be able to stock wipes in full until mid-2021. Demand has increased 6-fold, and the raw materials are in short enough supply to prevent manufacturing from catching up.](#)
- September 21, 2020: [There is still a shortage of N95 masks for healthcare workers: many professionals are still reusing them. The Defense Production Act has thus far not been used to make new masks by the Trump administration, despite its use for more-complex devices like ventilators. HHS has turned down offers to make additional N95s from other manufacturers, and declined to purchase a high-speed mask-making machine in 2018.](#)

Trade Interruption

- August 14, 2019: [China manufactures 97% of all antibiotics in the United States, and 80% of the active pharmaceutical ingredients used to create pharmaceuticals.](#)
- March 24, 2020: [Countries are already starting to **hoard food** and threaten global food trade.](#)
- March 26, 2020: [The largest wheat flour-exporting country has already **banned exports due to crop failure**; the third largest rice-exporting country has already banned rice](#)

[exports: skilled workers are required to pick non-automated fruit and vegetables, who are not available during a pandemic; seasonal worker movement is cut off due to countries closing borders](#)

- April 16, 2020: [China is **not allowing US companies to export medical supplies** to the US from Chinese warehouses, in order to conserve medical supply resources for itself.](#)
- April 21, 2020: [The World Food Program believes the coronavirus epidemic could **double the number of people facing acute hunger this year** based on the change to donation patterns for food aid alone.](#)
- April 22, 2020: [The **head of the U.N. food agency** has warned that COVID19 could lead to “**multiple famines of biblical proportions**” within a few months because countries that rely on both tourism and food imports to sustain their populations will see their revenue for food destroyed. “In a worst case scenario, we could be looking at famine in about **three dozen countries**”.](#)
- June 21, 2020: [China has suspended poultry imports from Tyson Foods after a COVID-19 outbreak at an Arkansas plant.](#)

Global Great Depression

Bank Collapse

- June 12, 2020: [The financial sector is at risk of collapse, as banks have not learned many lessons from the 2008 Great Recession. New laws that were intended to prevent banks from taking the same risks have failed to prevent those issues. Demand shifted from subprime collateralized debt obligations \(CDOs\) to collateralized loan obligations \(CLOs\) which shift risk from troubled homeowners to troubled businesses. There are \\$1T in loans outstanding through CLOs. Fitch Ratings has estimated that 67% of its borrowers had B-rating debt, which means that the borrower would be likely to be impaired in servicing its debt in adverse economic conditions; 15% are rated worse.](#)
 - June 12, 2020: [A response to the potential bank collapse from CLOs indicating their less-prevalent usage.](#)
- June 12, 2020: [Tenino, WA has started printing its own scrip in response to the economic fallout from COVID-19. The wooden dollars can only be spent at local businesses, and are insured/issued by city hall. Tenino followed the same strategy during the Great Depression to prevent economic damage from inflation.](#)
- June 25, 2020: [The FDIC has announced they are easing restrictions from the Volcker Rule of the Dodd-Frank Act \(passed after the Great Recession to help prevent another financial crisis\), which prevented banks from investing in high-risk portfolios like venture capital companies. Banks are now able to avoid setting aside cash for derivatives trades between different units of the same firm.](#)

Bankruptcy - Businesses

- Continuously updated: [Real-time tracking of the economic impacts of COVID-19 on people, businesses and communities.](#)
- April 1, 2020: [5,800 small businesses \(fewer than 500 employees\) across the U.S. \(in the Alignable network\) were surveyed at the beginning of the pandemic. 43% reported already being temporarily closed, on average they have reduced employee counts by 40% relative to January, on average they have less than one month of cash on-hand, and the majority will seek funding from the CARES Act.](#)
- April 9, 2020: [247,000 Chinese companies declared bankruptcy after 2 months of quarantine in Wuhan. 55% of those going out of business were young companies that were less than 3 years old. Retail experienced a 50% drop in revenue and restaurants experienced a 70% drop in revenue.](#)
- April 9, 2020: [3 million American businesses applied for emergency Economic Injury Disaster Loans \(EIDL\) under the SBA in 3 days, compared to the 1 million businesses expected. **Payout per business was supposed to be as high as \\$2M, but may drop to as low as \\$15,000 per business.**](#)
- April 13, 2020: [25% of small businesses surveyed do not think they will survive the pandemic, and 33% are unsure.](#)
- April 16, 2020: [47% of all Americans are employed by small businesses. In high-cost cities, the median small business has only enough cash to cover 2-3 weeks of expenses. The SBA Paycheck Protection Program to support small businesses has now run out of funding well before it was expected to.](#)
 - June 27, 2019: [There are currently 30 million small businesses across the US; the SBA Paycheck Protection Program has been maxed out serving 1.6M \(5%\) of them.](#)
- April 16, 2020: [The Paycheck Protection Program offers loans that are **forgiven if employers don't lay off workers over the next 8 weeks**, but that must be repaid if employers do lay employees off. Many of these loans are **not being granted in full**, which traps small businesses into having to **lay off personnel they can't pay for**, but then being stuck with an unforgivable loan they must pay back.](#)
- April 17, 2020: [It is believed that Congress will **not take action to add funds to the Payment Protection Program or the Economic Injury Disaster Loan program until it reconvenes**, after both programs have already exhausted their funds.](#)
 - April 14, 2020: [Congress will **not reconvene until at least May 4th, 2.5 weeks from now.**](#)
 - March 19, 2020: [It took **8 days to pass the stimulus bill** after the initial proposal. That means a new bill could reasonably only be expected **3-4 weeks from now.**](#)
- April 18, 2020: [Treasury Secretary Steve Mnuchin believes that a \\$1200 stimulus check to Americans who made under \\$100k in 2019, unemployment checks, and small](#)

business loans to only 5% of the 30 million small businesses in the US. **will be enough to support the country for next 10 weeks.**

- April 15, 2020: He has meanwhile signaled that **banks should seize the \$1200 stimulus checks** in cases where recipients owe money to the bank.
- April 19, 2020: 2% of the firms approved for PPP loans **accounted for 30% of the funding** from the program.
- April 21, 2020: The federal government has just passed an interim **\$484 billion funding bill** that adds another \$322 billion to the PPP and \$60 billion to the EIDL; this represents approximately another 5% of small businesses getting payments.
- April 22, 2020: Only **6%** of JPMorgan's small business PPP loans actually went to small businesses; the rest went to its largest customers.
- April 22, 2020: Data suggests that reopening economies early **won't actually save them**, as consumer habits started changing before shelter-in-place orders were issued and changes in consumer behavior are expected to last far longer.
- April 23, 2020: Europe's system of **providing unemployment for workers automatically** (80% of base salary) has meant that economic strain has been significantly decreased, as companies can lay workers off without worrying about being able to rehire them.
- April 24, 2020: The U.S. House has decided to not return on May 4, making passing any further stimulus bills harder; CARES 2 won't be passed until it is in session.
- May 4, 2020: Sales from small businesses across the U.S. dropped 30% from the week of March 2nd to the week of April 6th. Travel agency sales are down 98%, photography studios are down 88%, day care centers are down 75%, advertising agencies are down 60%. As of April 13, **25% of small businesses surveyed do not expect to survive the pandemic**, and an additional **33% of small businesses are uncertain of their ability to survive**.
- May 5, 2020: McKinsey estimates 30 million small business jobs are vulnerable to the pandemic, which is a higher share of vulnerability than larger private sector employees. They believe $\frac{1}{3}$ of all US jobs remain vulnerable. Small businesses provide nearly half of US private-sector jobs, yet they account for 54% of the jobs most vulnerable to the pandemic.
- May 21, 2020: In a survey of 1,228 CEOs, **70% of Dubai companies report that they expect to go bankrupt within 6 months** due to the coronavirus pandemic. Almost half of the hotels and restaurants in Dubai expect to go out of business in the next month alone. Since 80% of its population is foreign, a former director general presumes that the population will contract by at least 10% as people return to their native countries..
- May 25, 2020: A chef in Provincetown offers a powerful first-hand account of the issues around attempting to reopen restaurants when customers aren't willing to follow social distancing rules or regulations, and everything is in a state of flux.
- June 3, 2020: The number of businesses that are reporting they are at least somewhat concerned about the pandemic affecting their business remains 82%, similar to the past two months of surveys, but the number of small businesses reporting being "very

[concerned” is down to 43% from 53%. 79% of small businesses are at least fully \(41%\) or partially \(38%\) open.](#)

- June 11, 2020: [Hertz saw a stock rally **AFTER** declaring Chapter 11 bankruptcy. Its stock price increased by as much as 10X as individual day traders using the Robinhood app \(and others\) drove its stock price up. Hertz then sought to be able to sell stock to these traders in order to recoup its original shareholders’ costs during bankruptcy.](#)
- June 11, 2020: [Chapter 11 bankruptcies are up 48% year-over-year in May, representing 39,943 businesses.](#)
- June 18, 2020: [Edward Altman, creator of the Z Score method of predicting business failures, estimated that this year will set a record for mega-bankruptcies of companies with \\$1B or more in debt, challenging the record set in 2008.](#)
- June 22, 2020: [At least 40% of Black-owned businesses are not expected to survive the pandemic. 440,000 Black-owned businesses shuttered by mid-April, out of 1 million Black-owned businesses tracked by the University of California at Santa Cruz.](#)

Bankruptcy - States & Countries

- April 13, 2020: [**46% of countries around the world** are pleading for financial lifelines from the IMF as the economic effects of COVID19 cause damage.](#)
- April 22, 2020: [Russia is facing the prospect of **wide-ranging bankruptcy and civil unrest** as a result of lockdown; its GDP could fall by as much as 15% if oil prices drop below \\$10 a barrel.](#)
- April 22, 2020: [Mitch McConnell has indicated that he would prefer **states go bankrupt** before approving more federal aid directly to states. There is no mechanism for this under US law. It is believed he is suggesting this in order to raid state pension funds to pay for state pandemic responses.](#)
- April 25, 2020: [California, New York, and Ohio are expected to run out of money in their unemployment insurance pools in the next month.](#)
- April 26, 2020: [Billionaire Barry Diller says there’s no chance of an economic recovery by summer. “The damage being done is too catastrophic.”](#)
- April 29, 2020: [The U.S. economy shrank by **4.8% \(GDP\) in Q1** even though lockdowns only began mid-March. The chief economist at Credit Suisse believes “**we are headed for the largest contraction in GDP since the Great Depression**”. Personal consumption fell 7.6% \(steepest drop since 1980\), spending on services fell 10.2% \(largest decline since records began in 1947\).](#)
- April 29, 2020: [The Congressional Budget Office believes second-quarter GDP would be down by as much as 40%, making for the worst quarter since 1947.](#)
- April 30, 2020: [Kentucky faces a budget shortfall of \\$500M without congressional help, the first decline in its General Fund since the 2008 recession.](#)
- May 7, 2020: [California faces a **\\$54B budget deficit** as a result of just **7 weeks of shelter-in-place**, after recording a **\\$21B budget surplus** last year. The jobless rate has jumped from 3.9% at the start of the year to 18% now, 46% higher than during the great recession.](#)

- May 12, 2020: [The US reported a record \\$738B deficit in April, after a previous record of \\$235B in February 2020. To-date, FY2020 deficit has soared to \\$1.48T compared to \\$531B for a comparable period in 2019.](#)
- July 30, 2020: [The US report of a 32.9% drop in annualized GDP is the worst GDP report ever recorded; the previous record was a 10% annualized drop in 1958. The drop is more than 4 times worse than the worst quarter in the Great Recession.](#)
 - [Additional source with a good comparative graph to previous recessions and depressions.](#)
- July 30, 2020: [The US reported an annualized decrease in GDP of 32.9%; this is an indicator of how much the economy would contract if it continued at its current rate for a year. Actual Q2 contraction was 9.5%.](#)
- July 31, 2020: [The Eurozone reported an annualized decrease in GDP of 40.3%, which is a larger decrease than the U.S. This is partially due to the fact that the U.S. spent more on stimulus across the quarter \(12.3% of GDP in Q2\).](#)

Childcare

- May 15, 2020: [Initial estimates show that 50% of all childcare providers won't make it through the pandemic. Only 11% expect they could remain open indefinitely through the pandemic. It would cost \\$9.6B a month to keep U.S. childcare services operating through 6 months of shutdowns.](#)

Concurrent Crises

- May 21, 2020: [Hundreds of millions of dollars were lost to fraud through Washington State's unemployment system.](#)

Consumer Spending

- April 30, 2020: [Personal consumption expenditures dropped 7.5% in the US in March, which only featured 1-2 weeks of shelter-in-place, according to the Bureau of Economic Analysis.](#)
- May 12, 2020: [US credit card debt fell by the largest percentage \(an annual rate of 31%\) since 1989. Part of the drop is because banks have pulled back on credit as more people have become unemployed. Visa reported credit card payment volumes dropped 31% through April 28; the only sector that is growing is spending on food and drug stores. The savings rate grew from 8% in February 2020 to 13.1% in March 2020.](#)
- May 15, 2020: [When quarantine ended in China, manufacturing bounced back quickly but consumer spending remained depressed 13%; South Korea had similar spending depression at 12% after reopening. Consumer spending \(excluding groceries and gasoline\) in the US is down 26% in March and April. Barron's believes this lack of consumer spending across the globe will drive trade wars.](#)

Education

- March 26, 2019: [There is a large teacher shortage across the U.S., with high-poverty schools suffering the most.](#)
- March 10, 2020: [Harvard University instructs students to stay home after spring break and not return to campus, and is joined by a number of schools across the U.S.](#)
- April 13, 2020: [A 21-year professor is advising college students not to start in the fall, due to uncertainty about the next school year given the pandemic, funding situation, and lack of normalcy.](#)
- April 21, 2020: [Universities and colleges all over the country are reporting widespread layoffs and furloughs as their budgets are cut.](#)
- April 23, 2020: [Public universities and colleges are **losing their funding, starting immediately**, due to extreme state budget cuts that result from responding to the pandemic.](#)
- April 23, 2020: [Chinese schools have reopened by equipping all students with face masks, sometimes face shields, and dividers on their tables to separate everyone. No air conditioners will be used and windows will be fully open.](#)
- April 24, 2020: [Colleges are experiencing both a **public health crisis** and a **funding crisis at the same time**; because they are ideal breeding grounds for the virus, it is difficult to imagine them reopening fully, but even if they do state programs aren't going to be able to fund them the same way. In addition, all secondary funding streams from sporting events and other gatherings are likely to be way below expected budgets.](#)
- April 27, 2020: [Brown University's president has said that remaining closed in fall means losing half of Brown's revenue, and for many colleges, losing half a year's tuition would mean bankruptcy. She recommends universities do their own testing, contact tracing, and internal separation of sick students. The author in this study notes that there are an incredible number of potential outbreak locations in any given University, however, and they will be impossible to properly distance.](#)
- April 30, 2020: [**Every source of funding is in doubt for higher education.** Schools face tuition shortfalls from unpredictable enrollment \(and families deciding remote education isn't worth enrollment costs\), international students are in danger of not being able to attend, private endowments are in danger from stock market fluctuations, public institutions are experiencing immediate and deep funding cuts because state budgets are failing due to pandemic response, all sports funding is in doubt. Private institutions like MacMurray College have **already closed**; larger private institutions aren't planning on hiring contract workers and adjuncts; public institutions have frozen all hiring and spending.](#)
- April 30, 2020: [Boston University students are suing for a refund of tuition, claiming online education is inferior to in-person education and wanting money back for tuition, room and board.](#)
- May 4, 2020: [Students at more than 25 universities across the U.S. have filed lawsuits against their schools demanding partial refunds on tuition and campus fees.](#)

- May 11, 2020: [A business professor believes that leading schools will pivot to **online education in partnership with large companies**. will accept many more students than usual as a result \(depriving smaller schools of students and forcing bankruptcy\). and will **centralize education** further.](#)
- May 12, 2020: [Half of the non-tenure-track faculty at University of Massachusetts: Boston have received notices that they do not currently have jobs in the fall semester. Anecdotal reports indicate that this represents up to 25% of faculty.](#)
- May 18, 2020: [Leaders of major school districts across the country have warned that if no action is immediately taken, at least 275,000 teachers across the US could lose their jobs due to budget cuts.](#)
- May 19, 2020: [33% of high school seniors would cancel or defer college admittance if they were forced to attend an all-online college.](#)
- May 26, 2020: [Primary and secondary schools are seeing budget cuts larger than they've ever seen before as a result of crashing state revenues from pandemic-related unemployment. During the Great Recession, 120,000 teacher jobs were lost over the course of two years, and the teacher population still hasn't recovered.](#)
- May 29, 2020: [Los Angeles and San Diego school systems have declared that the 2020-2021 state budget for education does not provide sufficient funding to safely reopen schools.](#)
- June 9, 2020: [Harvard has told its faculty that most of its teaching in the fall will be online, as a result of the difficulty of operating during a pandemic safely and the difficulties international students will have attending in-person classes. A spokesperson has said official announcements will come in late June or early July. Harvard has also offered one year's salary as a bonus to any faculty or staff who choose to retire early. Harvard projects a **budget shortfall of \\$750M** for the next year.](#)
- June 17, 2020: [School superintendents are caught in a political crossfire around reopening safely in the fall. Governors are promising to put kids back in classrooms, but schools have to navigate slashed budgets, the resulting layoffs from these budget cuts, new safety requirements that need implementation, and more. Six major school districts in California are warning that budget cuts will delay reopening. New Jersey schools are refuting educational reopening guidance, the Massachusetts Teacher's Association believes the governor's plan will exclude low-income students, and more. Additionally, economic recovery in large part depends on kids returning to school so parents can go back to work.](#)
- June 22, 2020: [New research and modeling from Swarthmore and UPenn suggest that entire college campuses could acquire COVID-19 by the end of the fall semester with no public health interventions, with peak infections between 20 and 40 days. The study makes a number of suggestions on how to prevent large outbreaks.](#)
- June 22, 2020: [An overview of some of the haphazard plans colleges are making for the fall, and the substantial risks they are taking reopening.](#)

Entertainment Industry

- March 25, 2020: [Share prices of movie theater chains dropped between 60-70% across the board as investors predict an incredibly difficult next few months. Revenue has dropped to 0 for most theaters across the country, and major motion pictures have stopped filming as a result of the pandemic. Major theater chains started this year in significant debt, and are very poorly positioned to survive overall.](#)
- April 12, 2020: [AMC Theaters is in discussions with bankruptcy lawyers already.](#)
- April 14, 2020: [Cinemark has laid off over **85% of its employees** and furloughed 50% of corporate staff.](#)
- April 20, 2020: [Most Georgia movie theaters aren't reopening next week even though Georgia's governor has allowed them to; AMC, Regal, Cinemark and others have **laid off almost all employees across the board** and believe it would take a long time to rehire. Theaters are also extremely concerned about the liability of reopening during a pandemic.](#)
- April 28, 2020: [AMC says it will no longer play Universal Studios films after Universal released the animated sequel to "Trolls" direct to consumers, making more in 3 weeks than the original movie made in 5 months.](#)
- May 15, 2020: [The Alamo Drafthouse chain has filed for chapter 11 bankruptcy as a result of the pandemic.](#)
- June 3, 2020: [AMC theaters has substantial doubt it can remain in business.](#)
- June 9, 2020: [Up to 90% of independent music venues may shut down as a result of the pandemic, according to an industry survey by the National Independent Venue Association.](#)
- June 12, 2020: [Chuck E Cheese is on the verge of declaring Chapter 11 bankruptcy.](#)
- June 25, 2020: [Chuck E Cheese's parent company, CEC Entertainment, has declared bankruptcy.](#)
- September 15, 2020: [The first major blockbuster to be released in theaters globally \('Tenet'\) has bombed, collecting only \\$9.4M in North America and \\$29.5M in its first two weeks. 68% of U.S. movie theaters are reopen. People aren't going back to theaters at anywhere close to the rates they used to.](#)

Fitness Industry

- May 11, 2020: [Gold's Gym is filing Chapter 11 bankruptcy and has already closed 30 locations.](#)
- June 14, 2020: [24 Hour Fitness is weighing bankruptcy, while 10 Bay Area locations have closed permanently already.](#)

Healthcare

- May, 2018: [There are 16,866,020 healthcare workers in the U.S.](#)

- April 7, 2020: [More than 256 hospitals are furloughing healthcare workers across the country as elective procedures are canceled.](#)
- April 27, 2020: [14,000 Stanford hospital system healthcare workers have been furloughed as a result of treating COVID19.](#)
- May 8, 2020: [More than 1.4M healthcare workers \(8.3% out of the 16.87M in 2018\) have lost their jobs due to the pandemic in April 2020, as elective surgeries have been canceled \(and are much more lucrative than COVID19 treatment\). Healthcare spending has fallen 18% in the first three months of the year. 1.4 million healthcare workers lost their jobs in April, up from 42,000 in March.](#)
- May 10, 2020: [87% of the 23,000 nurses surveyed by National Nurses United have had to reuse a single-use respirator while treating COVID-19 patients. 28% of nurses had to use decontaminated single-use respirators.](#)
- May 15, 2020: [55% of organizations reaching out to Project N95 will run out of PPE within the next week.](#)
- May 18, 2020: [Hospitals in Brazil's Sao Paulo are near collapse.](#)
- May 19, 2020: [22% of physicians assistants have been furloughed due to COVID-19. Of physicians assistants who had to treat COVID-19 patients, 38.9% went without PPE.](#)

Historical Analogs

- October 13, 2009: [Public health **increased overall**, and **life expectancy increased**, during the Great Depression. Suicides increased, but only to 2% of total mortality.](#)
- April 3, 2012: [The population didn't drastically decrease during the Great Depression, it **just moved to states that were handling the Depression better** in an unprecedented internal migration.](#)
- April 3, 2020: [The peak unemployment rate during the Great Depression was 25%; we are already at **12-15% unemployment in 3 weeks**, and are expected to peak near 30% within 4-5 weeks.](#)

Manufacturing

- May 10, 2020: [Manufacturing employment is now at its lowest since the Great Recession. March's durable goods orders were down 16.2% year-over-year, industrial production is down to levels not seen since 2012. "What happened in the retail environment simply overwhelmed us."](#)

Museums

- May 18, 2020: [13% of museums worldwide may not reopen after the pandemic.](#)

Oil Industry

- October 24, 2019: [Capital markets are already wary of investing or further loaning money to the US oil and gas industry, particularly shale. Bankruptcies were accelerating before the current crisis.](#)
- March 6, 2020: [Russia and Saudi Arabia failed to come to an agreement on OPEC production levels. This sparked a price war, overproduction by both countries, and a dramatic price drop; this was done in part to attempt to drive each other bankrupt, and it was done in part to drive American oil suppliers bankrupt.](#)
- April 9, 2020: [Saudi Arabia intentionally planned to flood the world with oil even as demand collapses, as part of a lead up to OPEC+ talks in March.](#)
- April 15, 2020: [The International Energy Agency estimates the world's monthly demand for oil is 29% lower in April than it has been in years past, and that such rates of consumption haven't been seen since 1995. Even though OPEC+ countries have agreed to record cuts, "...the drop in demand is so abrupt and intense that there is no feasible agreement that could cut supply by enough to offset such near-term demand losses".](#)
- April 16, 2020: [Oil has been collapsing since well before the pandemic hit, and may never recover to prices higher than \\$30-40 a barrel.](#)
 - September 3, 2015: [For reference, the 2015/2016 oil crash in the US saw widespread layoffs and supply chain bankruptcies across the country when prices dropped below \\$60 a barrel.](#)
- April 17, 2020: [Saudi Arabia is deliberately attempting to force US oil company bankruptcies, and in the middle of a market glut \(in which storage is full, and the futures price of WTI crude went negative 2 days ago\), Saudi Arabia is sending a flotilla of 20 oil tankers full of 40 million barrels of oil to Louisiana and Texas in an attempt to flood the market. This represents 7-10x the monthly amount last year.](#)
- April 19, 2020: [Stopping certain types of oil extraction processes can permanently damage oil wells; up to 1/3 of Canadian wells are at risk of permanent loss if they are stopped completely, and spooled down before futures traded negatively.](#)
- April 20, 2020: [Oil futures contracts dropped below \\$0 a barrel for the first time in history on 4/20; nobody wants to take delivery because strategic reserves are close to being full, and demand is down drastically due to the pandemic.](#)
 - [Primer on what oil futures contracts are.](#)
 - [Primer on what WTI is.](#)
 - Continuously updated: [70-year graph showing the price of oil, adjusted for inflation, with recessions marked, showing oil never getting anywhere close to \\$0.](#)
- April 21, 2020: [Oil firms now have to rent tankers to store excess supply.](#)
- April 21, 2020: [The recent continuation of the oil price war between Saudi Arabia and Russia resulted from a personal call and shouting match between Vladimir Putin and Mohammed bin Salman; this price war began when President Trump didn't react to attacks on Saudi Aramco plants by Iran.](#)

- April 21, 2020: [The US Oil Fund, which invests in crude oil to help balance price fluctuations, has dropped 25% after managers made multiple changes to the funds structure to help address the negative crash. The fund will now invest in multiple months of supply, instead of just the upcoming contract.](#)
- April 22, 2020: [Billionaire investor Howard Marks calls the oil crash “**completely rational**” because storage is rare and expensive.](#)
- April 23, 2020: [Gasoline consumption in the US has crashed by **more than 40%** as of the week ending on April 17, and **demand hasn’t been this low in 45 years**; AAA has stated that refinery rates dropped to 69%, which hasn’t been reported in more than a decade.](#)
- April 23, 2020: [The U.S. Energy Information Administration shows a 31% drop in petroleum product demand from a Jan. 1 - Mar. 31 average for 2020; a 40% decline in gasoline demand; a 62% decline in jet fuel demand; and a 20% decline in distillate fuel oil.](#)
- April 24, 2020: [Only 58% of US oil and gas rigs \(~470 out of ~800 at the start of the year\) are still online, collapsing to **levels not seen since July 2016 - the last oil crash**.](#)
- April 27, 2020: [The LNG market is collapsing alongside oil, with current prices at 50% of extraction and distribution costs. Orders are simply being canceled and experts believe the market is imploding.](#)
- April 27, 2020: [Art Berman, a petroleum geologist with 36 years experience in the oil and gas industry, believes it’s “game over” for the US oil industry. He outlines how he believes oil wells will be shut-in much faster than market analysts predict, and how this will trigger a global depression.](#)
- April 30, 2020: [Shell has announced the first cut to shareholder dividends \(of 66%\) since WW2. Its first quarter earnings were down 46% year over year. “We do not expect a recovery of oil prices or demand for our product in the medium term.”](#)
- May 1, 2020: [Exxon has posted its first quarterly loss \(\\$610 million\) since 1988, and Chevron slashed \\$2 billion off of its spending plan as a result of their earning period ending March 31, after only 2 weeks of shelter-in-place and 3 weeks before oil prices went negative.](#)
- June 3, 2020: [The coronavirus pandemic could trigger the collapse of the \\$25T fossil fuel industry by accelerating a decline of the most-polluting companies; the value of reserves could drop by up to 66% in the wake of reduced demand. A 2% decline in demand for fossil fuels every year could drive a market collapse from \\$39T to \\$14T. The International Energy Agency estimates that the pandemic could lead to the most severe plunge in demand since the second World War.](#)
- July 31, 2020: [Exxon and Chevron collectively lost \\$9B in Q2 2020 as the price of oil crashed and only recovered to ⅔ of its pre-pandemic price. The US oil industry has lost 100,000 jobs thus far, with 45,000 lost in upstream oil & gas jobs in Texas alone. Absolute demand fell to levels that haven’t been seen in 20 years.](#)
- August 1, 2020: [Marathon Petroleum has closed 2 refineries permanently; throughout the pandemic, about 20% of US processing capacity has been idled.](#)

Real Estate

- April 7, 2020: [Nearly 25% of Americans couldn't pay their April housing bill. Data from the most recent American Housing Survey collected in 2017 showed that, in an average month, 3.9% of renters will fail to pay full rent; in April 2020 this skyrocketed 550%. At least 10% of homeowners with a mortgage are deferring their April payment.](#)
- April 28, 2020: [AirBNB bookings have dropped 80% in two months. Broadly, AirBNB has lost \\$1.5 billion in bookings in mid-March. Many hosts are reliant on AirBNB revenue to pay mortgages, and some are overleveraged enough to risk default on their mortgages.](#)
- May 12, 2020: [Twitter has told its 4,600 employees that they can work from home forever.](#)
- May 12, 2020: [Barclays, JP Morgan Chase, and Morgan Stanley \(representing 20,000 employees and 10 million square feet of commercial real estate\) have decided they're unlikely to bring workers back into office buildings in Manhattan, and are considering ending their leases and switching to remote work. 180,000 employees from Chase have been working from home, and Facebook, Google, and Twitter have all told employees to stay home for the foreseeable future.](#)
- May 15, 2020: [8.8% of American homeowners \(4.7 million homes\) are currently in forbearance under the CARES act. The loans currently in forbearance represent \\$1T.](#)
- May 18, 2020: [Square has told its 3,000 employees that they may work from home forever.](#)
- May 19, 2020: [4 million Americans \(8.16% of all mortgages\) are now skipping their mortgage payments, and are in forbearance.](#)
- May 21, 2020: [The Mall of America hasn't paid its \\$1.4B mortgage in 2 months.](#)
- June 3, 2020: [San Francisco's rent has plunged 9.2% year-over-year in June, the largest decline since 2015. This is believed to be primarily due to a sudden shift in working from home from major tech companies like Twitter, Facebook, Square, and others. Mountain View has seen a price drop of 16%, Menlo Park has seen a drop of 14.1%, Cupertino has seen a drop of 14.3%, and Palo Alto has seen a drop of 10.8%.](#)
- June 11, 2020: [Between March 25 and April 10 of 2020, nearly half of renters between ages 18 and 64 reported difficulty paying their rent or utilities. The federal government has banned evictions in federally-assisted properties through July 25, and many states put eviction moratoriums in place \(MA, NY, MI and others\), but a wave of evictions is expected to hit immediately afterward - especially when federal unemployment ends on July 15.](#)
- June 16, 2020: [30% of Americans missed their mortgage payment in June, 31% missed their payment in May, and 24% missed their payment in April. 37% of renters and 26% of homeowners are at least somewhat worried they will be evicted in the next 6 months. Columbia University expects that homelessness will increase 40-45% over January 2019 this year. Experts believe there are at least 50,000 eviction filings pending in New York City once the eviction moratorium passes.](#)

- June 8, 2020: [ApartmentList and SurveyMonkey teamed up to survey 4,000 homeowners that represented American demographics to generate the data for this news article.](#)
- June 18, 2020: [7.5% of San Francisco tenants have broken their lease since shelter-in-place orders were issued mid-March. The biggest group leaving is Generation Z, 18-to-25 year olds. A report from Zillow recently found that 2.7 million adults moved in with their parents in March and April, 2.2 million of which were Generation Z. Landlords are finding that demand for rentals is currently non-existent.](#)
- July 29, 2020: [U.S. renters owe \\$21.5B in back rent in the aftermath of pandemic unemployment. Rent has been deferred for up to 4 months throughout the pandemic, and is now due in buildings with mortgages backed by the federal government \(approximately 1/3 of renters\). 17.3 million U.S. households are at risk of eviction.](#)

Restaurant Industry

- April 22, 2020: [6,500 Massachusetts restaurants have reported cutting **87% of staff** \(with 93% of restaurants having had to cut staff\) due to coronavirus as of April 22; **sales have dropped by 81%** since the start of the pandemic.](#)
- April 26, 2020: [50% of San Francisco restaurants are currently expected to go bankrupt as of 4/24.](#)
- April 29, 2020: [Restrictions on restaurant density for the sake of preventing COVID19 spread during reopening could just hasten their bankruptcy; having to staff everyone required to bus, clean and serve tables while only allowing 25-50% density could do much more harm than good.](#)
- May 5, 2020: [18% of Wendy's restaurants are now out of beef as a result of the meat shortage. Wendy's is more exposed to supply chain issues than others because it relies on fresh beef.](#)
- May 14, 2020: [OpenTable is forecasting that 25% of American restaurants will go out of business as a result of this pandemic. Total reservations through OpenTable were down 95% on May 13, as compared to a year ago.](#)
- June 16, 2020: [Bay Area restaurant owner explains why he shut his restaurant back down 1 week after he was allowed to reopen: the mandatorily low density meant he lost money \(12%\) during operation, the restaurant didn't have the sociable feel he worked so hard to create, staff weren't getting compensated for putting themselves in danger, acquiring the medical supplies necessary to reopen cost \\$5,000. He also notes that take-out wasn't ever going to sustain the restaurant.](#)
- June 22, 2020: [3,600 out of 16,000 \(22.5%\) restaurants in the state of Massachusetts are predicted to be closed for good due to the pandemic.](#)
- June 22, 2020: [Restaurants across Arizona are choosing to shut themselves down as Arizona's COVID-19 cases surge.](#)
- June 25, 2020: [41% of all business closures on Yelp since March 1 are now permanent. The highest rate of business closures are shopping and retail, restaurants, beauty and](#)

[fitness. Retail was the hardest hit, making up 20% of all closures but 35% of all permanent closures.](#)

- June 27, 2020: [83% of the 3,700 bars and restaurants in LA County surveyed are not following COVID-19 reopening guidelines.](#)

Retail Industry

- April 19, 2020: [30,000 strip malls in the U.S. have only been paid between 30-50% of rent for April.](#)
- April 30, 2020: [Saks Fifth Avenue is preparing to file for bankruptcy.](#)
- May 3, 2020: [81 Walmart employees in Worcester, MA have come down with COVID19 after an outbreak in the store.](#)
- May 7, 2020: [Neiman Marcus declares Chapter 11 bankruptcy. J.C. Penney, Sears and Brooks Brothers are believed to be in danger of bankruptcy.](#)
- May 15, 2020: [American retail sales collapsed in April 2020, dropping 16.4% month-over-month and 21.6% compared to April 2019. This represents the largest monthly drop since data collection started in 1992. Sales at clothing stores and accessories stores dropped 89.3% year-over-year. Online sales grew by 8.4%.](#)
- May 18, 2020: [J.C. Penney has filed for chapter 11 bankruptcy and plans to close 240 stores \(30% of its total\) in a presentation to the SEC.](#)
- May 19, 2020: [Pier 1 is completely shutting down after filing for bankruptcy after failing to find a buyer.](#)
- May 25, 2020: [Amazon shareholders are holding the company accountable for providing safety equipment to its workers after a series of strikes across the US.](#)
- June 16, 2020: [Retail sales have rebounded 17.7% in May \(after dropping 8.2% in March, and a further 14.7% in April\), but spending was still down 6.1% from the year before. Online sales were the only vertical that continued being profitable during the pandemic shut-down. There is still dramatically lower demand for clothing, electronics, gas, restaurants, and department stores.](#)
- June 17, 2020: [Lower-income Americans are spending about as much as they were pre-pandemic, but wealthier Americans are saving and not spending money. The wealthiest 25% of Americans account for 66% of the total decline in spending since January. Many outlets of wealthier discretionary spending are still closed, such as nice restaurants, travel, or hospitality.](#)

Sports

- August 1, 2020: [Red Sox pitcher Eduardo Rodriguez will be sitting out this season due to myocarditis, a complication that could result from his previous COVID-19 infection before the start of summer camp.](#)

Transportation Industry

- April 20, 2020: [Virgin Australia has gone bankrupt, the first Asian airline to declare bankruptcy due to the pandemic.](#)
- April 22, 2020: [Airline capacity is down 70-80% year over year in April. 60% of the global airplane fleet is grounded, and 70% of the US fleet is grounded. In pessimistic modeling scenarios, air travel doesn't recover until 2023 or later.](#)
- April 26, 2020: [Richard Branson is trying to sell Virgin Atlantic by the end of May in order to avoid bankruptcy.](#)
- April 28, 2020: [Uber's CTO has resigned as Uber plans to lay off up to 5,400 people \(20% of the company\).](#)
- April 29, 2020: [Lyft is laying off 17% of its workforce, and furloughing another 5%.](#)
- May 2, 2020: [Warren Buffett has sold Berkshire Hathaway's entire stake in the airline industry \(11% of Delta, 10% of America, 10% of Southwest, 9% of United\), and says "the world has changed" for the industry.](#)
- May 8, 2020: [San Francisco's Caltrain system is in danger of shutting down given the catastrophic loss of revenue from COVID19.](#)
- May 14, 2020: [International air travel might not return to full capacity until 2023. Domestic travel is projected to pick up by the end of 2020.](#)
- June 17, 2020: [260 Orlando airport workers and their close contacts at home have tested positive for COVID-19 since March 2020.](#)
- June 26, 2020: [American Airlines announced Friday that it was ending social distancing onboard in the same week as record COVID-19 infections were reported across the US.](#)
- June 27, 2020: [United Airlines has announced it is ending social distancing on aircraft, alongside American Airlines.](#)
- August 2, 2020: [Emirates has launched an ad campaign promising free funerals if people get infected with COVID-19 on their planes.](#)

Tech Industry

- Continuously updated, as of May 14: [Tech companies are not excluded from job loss; at least 47,524 tech workers have been laid off across the U.S. thus far.](#)
- April 28, 2020: [TripAdvisor has cut 25% of its workforce as coronavirus stalls travelers.](#)
- April 28, 2020: [Uber's CTO has resigned as Uber plans to lay off up to 5,400 people \(20% of the company\).](#)
- April 29, 2020: [Lyft is laying off 17% of its workforce, and furloughing another 5%.](#)
- May 21, 2020: [Facebook is moving to allow a significant portion of its workforce \(up to 50% of 45,000 employees\) to work from home.](#)

Unemployment

- Continuously updated: [Labor force statistics from the current population survey from the U.S. Bureau of Labor Statistics.](#)
- Continuously updated: [United States Census Household Pulse survey showing the continuing impacts of COVID-19.](#)
- August 29, 2019: [There are 157 million people in the American workforce.](#)
- April 1, 2020: [Month-by-month unemployment trends during the Great Depression. Unemployment rose from almost 0% to 25.6% in May, 1933. It took 9 years and the start of World War 2 to recover the jobs that had been lost.](#)
- April 4, 2020: [Millions of Americans **can't currently file for unemployment** \(or get relief\) because states are unable to cope with the orders-of-magnitude higher filing rates than usual. Hold times have been as long as 8+ hours.](#)
- April 9, 2020: [16 million Americans have filed for unemployment in 3 weeks, which is a low estimate because states have not been able to keep up with the claims. **There have never, in the history of the United States \(including during the Great Depression\), been as many people unemployed this quickly.**](#)
- April 9, 2020: [73% of American households suffered a loss of income in March; demand for gasoline dropped 88% in the UK; 205 million migrant workers are furloughed in China; only 19% of India's 471 million workers are covered by social security, 66% have no formal contract, and 100 million migrant workers are literally walking home as Indian froze mass transportation country-wide.](#)
- April 10, 2020: [More than 50% of American voters under 45 say they've lost their job, gotten hours cut, or been furloughed.](#)
- April 11, 2020: [One in four Canadian workers has already applied for emergency income relief.](#)
- April 14, 2020: [5.5 million Americans are estimated to have filed for unemployment the week of April 6th \(on top of the 16 million from the 3 weeks prior\), **bringing the total to 22 million**; this eliminates **all job growth** since the last recession in 2008 \(11 years ago\).](#)
- April 16, 2020: [Florida is only paying out 5% \(33,600 out of 650,000 applicants on 4/16\) of unemployment claims, while also having the lowest unemployment payments in the country.](#)
- April 16, 2020: [Unemployment claims are being slowed by the fact that workers are walking off the job in unemployment offices themselves; **25% of Illinois unemployment agency's workers aren't coming in.**](#)
- April 16, 2020: [As of April 16, the US unemployment rate is likely **around 18%**.](#)
- April 18, 2020: [Only 45% of LA county residents have a job right now.](#)
- April 20, 2020: [Florida is only paying out 40,193 unemployment applicants out of 1.5 million \(2.67% of applicants\)](#)
- April 21, 2020: [New York State's unemployment website collapsed following the surge in claims, and now has 1,000 employees taking unemployment calls.](#)

- April 21, 2020: [About half of low-income Americans report household job or income loss, with only 23% saying they have a rainy day fund that would let them cover expenses for 3 months.](#)
- April 22, 2020: [There is speculation that the strategy of Republican states reopening early is at least in part driven by a need to push people who don't want to go to work out of pandemic fears off of unemployment rolls.](#)
- April 23, 2020: [26.4 million Americans are now unemployed. This represents 23% unemployment in the US, compared to the Great Depression's high of 24.9%.](#)
- April 23, 2020: [Fortune points out that there were already 7.1 million Americans unemployed by March 13, so the US is currently at 33 million unemployed Americans \(20.6% real unemployment\).](#)
- April 24, 2020: [Over 66% of artists in the US have lost their jobs, and 95% have lost income, as a result of this pandemic.](#)
- April 27, 2020: [Estimated unemployment in Las Vegas is currently estimated to be 25%, more than double that of the Great Depression, because 1/3 of the local economy is leisure and entertainment focused. On one day in March, the unemployment office received 28,000 calls.](#)
- April 27, 2020: [In the middle of a pandemic, 14,000 Stanford Health Care workers are being furloughed or having their pay cut. This is due to hospital revenues dropping as a result of 40% reduction in emergency room visits, and similar declines in elective procedures.](#)
- April 29, 2020: [Lindsey Graham promises Congress won't extend \\$600 weekly extra for unemployment past July 31.](#)
- April 29, 2020: [Globally, half of the world's workers may see their livelihoods destroyed by COVID19, according to the International Labor Organization. Over 60% of countries on Earth have workplace restrictions right now.](#)
- April 30, 2020: [Republican states are indicating that workers' unemployment benefits will be stripped if they don't return to work after states re-open.](#)
- April 30, 2020: [Unemployment broken out by state. Tracked unemployment claims over the last 5 weeks range from 16.9% to 29.2% by state tracked.](#)
- April 30, 2020: [US weekly jobless claims hit 3.84 million, bringing the rolling figure to 30.3 million. 7.1 million Americans were unemployed before the 6 week figure, meaning total unemployment is 37.4 million, or 23.8% of the American workforce. 22.4 million jobs were created since the Great Recession, and we have eliminated all of them.](#)
- May 1, 2020: [Nurses in New Orleans are getting laid off after fighting COVID19 because hospital revenues are cratering as a result of the crisis.](#)
- May 2, 2020: [More than 70% of Americans who filed for unemployment did not receive benefits. In Republican states like Florida, fewer than 8% of applicants received benefits.](#)
- May 7, 2020: [Real unemployment is now 24.9%, with 33.5 million people going on unemployment in the past 7 weeks. 7.1 million Americans were already unemployed before the pandemic began, bringing the total to 40 million Americans.](#)
- May 8, 2020: [The Labor Department delivered a historically bad employment report on May 1, showing 20.5 million jobs lost in April 2020. The highest monthly job loss](#)

previously was at the end of World War 2, when the country demobilized from war production in 1945, and consisted of 2 million people. The worst monthly loss during the Great Recession was 800,000 people in March 2009.

- May 8, 2020: As bad as the jobs report is, it was pulled in the middle of April, and understates unemployment in America right now. Leisure and hospitality lost 47% of their workers. It took ~8 years to recover from the Great Recession, which had ⅓ the job loss the US has just experienced.
- May 10, 2020: Saudi Arabia has tripled taxes on basic goods (raising them from 5% to 15%), cut spending on projects by \$26B, and has cut a cost-of-living allowance to all Saudi citizens as a result of falling oil prices and a lack of diversification in their economy. State revenues are down 22% from the same time last year.
- May 11, 2020: The Labor Department may be undercounting the amount of unemployed Americans by 6,000,000 by artificially shrinking the labor pool and not allowing them to be counted towards their 15% real unemployment rate.
- May 13, 2020: 40% of households earning less than \$40,000 a year have reported job loss since February. Latinos posted the highest unemployment rate, followed by African Americans.
- May 14, 2020: 2.981 million Americans became unemployed last week, bringing the total unemployed due to the pandemic to 36.5 million and total unemployment (including pre-pandemic) to 43.6 million (27.8% of the 157 million people in the workforce reported in 2019).
 - Corresponding story from ABC.
- May 15, 2020: Indiana saw record low unemployment a few months ago, and had 50 people answering phones at the unemployment office to handle 2,000 people filing for unemployment every week. Recently, 140,000 people attempted to file for unemployment in Indiana in one week - five times more than what the office saw during the Great Recession. The unemployment office hired as fast as it could (and is now 650 people instead of 50) but people are still on-hold for 4 hours at a time before being automatically disconnected by phone companies.
- May 21, 2020: 2.4 million additional Americans filed jobless claims, bringing total unemployment due to the pandemic to 38.6 million, in addition to the 7.1 million Americans who were unemployed before the pandemic began. The total is now 45.7 million unemployed Americans out of a workforce of 157 million in 2019 (29.1%).
- May 21, 2020: Despite reopening quickly, Georgia has not seen an economic recovery a month later. Weekly applications for jobless benefits have remained so elevated that Georgia now leads the country in terms of proportion of its workforce applying for unemployment benefits, with 40.3% of the state's workers filing for unemployment insurance payments.
- May 30, 2020: 68% of unemployed workers may be temporarily receiving more money in unemployment than they did from their jobs, given the combination of federal and state unemployment. 20% of eligible workers may have doubled their salaries. In every state, median earnings-replacement exceeded lost wages, with the national median earnings-replacement being 134%.

- June 8, 2020: [There's a glaring error in the recent optimistic May jobs report from the Labor Department: household survey takers mistakenly counted 4.9 million Americans as employed, even though they were unemployed. The corrected April figures would have indicated 19.5% unemployment instead of 14.7%. The federal government has stated it does not revise its prior survey results, for fear of looking like political interference.](#)
- June 11, 2020: [8 weeks after reopening early in order to save the economy, Georgia is still seeing unemployment filings instead of net job gains. The state has extended unemployment benefits to last 13 weeks.](#)
- June 11, 2020: [1.5 million additional Americans filed unemployment claims last week, bringing total unemployment related to the pandemic to more than 44 million people. 7.1 million Americans were unemployed before the pandemic began, bringing the total to 51.1 million Americans out of an original 2019 workforce of 157 million \(32.5%\). There are 20.9 million continuing claims of unemployment, and the Labor Department claims 2.5 million jobs were added to the economy \(4.8% of jobs lost\).](#)
- June 12, 2020: [70-year-old Michael Flor was hospitalized for 2 months with coronavirus, and was given a 181-page, \\$1.1M bill at the end of it.](#)
- June 14, 2020: [National Economic Council Director Larry Kudlow has reiterated that the \\$600 additional weekly unemployment benefit checks created to aid those who lost their jobs in the pandemic will end July 15th. The Trump administration is considering an additional reform measure but it will not be as substantial.](#)
- June 18, 2020: [An additional 1.5 million Americans filed unemployment claims last week, and 760,000 people applied for benefits under the new Pandemic Unemployment Assistance program for those ineligible for traditional unemployment programs. Combined, this brings the total unemployment applications in the last 3 months to 46 million, on top of the 7.1 million unemployed before the pandemic began \(53.1 million out of a workforce of 157 million; 33.8% real unemployment\). A senior economist at the Economic Policy Institute believes only about 34.5 million Americans are currently receiving benefits under continuous claims, as some have applied more than once per state instructions.](#)
- June 19, 2020: [The San Francisco Bay Area gained 41,700 jobs during May, but this is a miniscule fraction of jobs lost. California's unemployment rate as a whole only changed from 16.4% to 16.3% state-wide.](#)
- June 23, 2020: [President Trump has now suggested sending another wave of direct stimulus payments to Americans, as he believes it will help him get re-elected. This is in opposition to Congressional Republicans and National Economic Council Director Larry Kudlow, who do not want to issue direct payments.](#)
- July 28, 2020: [\\$600/week unemployment bonuses did not lead to people working less: studies from Yale and the Chicago Federal Reserve both suggested that the expanded benefits neither encouraged layoffs nor discouraged returning to the workforce.](#)
- July 29, 2020: [The Associated Press-NORC Center for Public Affairs Research has found that 47% of those unemployed feel like their pandemic-related job loss is likely to be permanent, representing 10 million Americans.](#)

- July 30, 2020: [Weekly jobless claims increased for the 2nd straight week after a long decrease, for a total of 1.434M this week.](#)
- August 5, 2020: [The New York Times has created a visualization showing unemployment unevenly distributed across the U.S. There is a stark division between neighborhoods where people can afford to work from home, and those that can't.](#)
- August 6, 2020: [1.2 million Americans sought unemployment last week, just as a \\$600/week federal benefit has expired. It's the 20th straight week new unemployment claims have topped 1M - previous weekly claims had never topped 700,000 before this pandemic. Only 40% of the jobs lost during the pandemic have recovered.](#)

Pandemic Recovery

Economic Projections

- Continuously updated, as of June 13 2020: [M3, the broadest money supply measure, has increased 25% year-over-year. During the peak of the Great Recession, the money supply had only increased 17.5%.](#)
- March 31, 2020: [Studies of the 1918 Spanish Flu pandemic showed that U.S. cities that responded more aggressively from public health perspectives had better economic rebounds. As an example, cities that started public health measures 10 days earlier saw a 5% increase in manufacturing employment post-pandemic. There was no evidence of worse economic performance as a result of more aggressive public health measures.](#)
- April 13, 2020: [Zillow commissioned a review of economic performance during and following previous pandemics. For many short-duration pandemics, economic recovery appeared to be quick: Hong Kong recovered from SARS with only a 1.75% loss of yearly GDP. Projections of theoretical influenza epidemics show GDP losses of 5-10% in developed countries. These may be applicable economic models for less-affected countries that took action early, but may not be indicative of sustained pandemics.](#)
- April 14, 2020: [The IMF believes the global economy will likely suffer the **worst recession since the Great Depression this year**, surpassing the 2008 recession.](#)
- April 15, 2020: [Foreign Policy asked 9 economists about their projections for what the new economy looks like: **reverting from globalization** back to nation states as a unit of economics that must include their own manufacturing; **more-resilient supply networks and reduction of just-in-time**; perhaps less inequality and a **path towards UBI**; new capital controls in emerging markets; reversing of tourism and mobility trends; that fear and politics will become market movers more than anything else; **people will save more and be risk-averse post-pandemic**; the gap between rich countries and poor countries will widen significantly; there will be ongoing dissatisfaction with relying on the US as the dollar standard; economic nationalism will spike; the world will **look to central banks to save them**; the normal economy is never coming back, and **many industries will simply cease to exist at their current scale**; many lost jobs \(particularly low skill,](#)

automatable/digitizable jobs) many **never come back**, due to structural reconfigurations for the sake of resilience and acceleration of existing trends.

- April 15, 2020: The libertarian CATO institute believes that **changes in public behavior and the resulting demand loss** are the cause of economic destruction, and not **government policies**, noting that restaurant reservations fell 73% the day before restaurants were ordered closed. They note a poll indicating 72% of the public would not attend a sporting event until a vaccine was developed.
- April 22, 2020: Americans now have trauma around crowds, public places and indoor facilities, and started **going out to eat less in the run up to COVID19 out of fear and not policy**; economists believe American consumption patterns have changed dramatically, and won't go back to normal even if it opens up.
- April 22, 2020: German consumers are staying home after reopening. There are few lines or crowds in public establishments, and Germans are saving money.
- April 28, 2020: MarketWatch is predicting a "Great Depression": a **30% contraction in real GDP in Q2**, an unemployment rate of 14.2% by the end of 2020. In a "best case" scenario, a vaccine or treatment emerges in 6-12 months, in which case unemployment would "only" be 9% for the next 2 years.
- April 28, 2020: Nouriel Roubini predicts a Greater Depression in the 2020s due to ten factors that include: widespread defaults on debts, demographic time bombs in advanced economies, growing risk of deflation, currency debasement, digital disruption of the economy, de-globalization, backlash against democracy, geostrategic standoffs between the US and China, the potential for a new cold war, and environmental disruption.
- April 29, 2020: Restrictions on restaurant density for the sake of preventing COVID19 spread during reopening could just hasten their bankruptcy: having to staff everyone required to bus, clean and serve tables while only allowing 25-50% density could do much more harm than good.
- April 30, 2020: Sweden had no lockdown but its economy has been just as negatively affected as neighboring countries that did lock down.
- May 11, 2020: Moody's is predicting a second wave of coronavirus would plunge the U.S. into a depression, in which unemployment is sustained over 10% for a year or longer.
- May 15, 2020: Decades of stable inflation rates may be coming to an end. In the short term, many economists believe the global collapse in consumer demand will lead to deflation. If countries on-shore in response to pandemic shortages, prices for goods will increase significantly; further, if economies bounce back strongly, demand will outstrip supply prices will rise. Economists who believe the global economy will not recover quickly believe consumer spending will take a long time to recover, and thus only less expensive consumption will be possible. Consumers would save, or simply do without, in this scenario.
- May 15, 2020: The Friedman Institute at the University of Chicago believes that 42% of recent layoffs will result in permanent job loss in a paper entitled "COVID-19 As A

[Reallocation Shock](#)". George Soros believes there's no way to go back to a globalized economy after COVID19.

- June 4, 2020: [American Q2 GDP 'growth' is estimated to be -48.5% as of June 9th.](#)
 - June 9, 2020: [Accompanying presentation by the Atlanta Federal Reserve.](#)
- June 11, 2020: [The Consumer Price Index fell .1% in May, but this fall was mostly due to lowered prices of goods consumers aren't buying. The price of necessities like groceries, rent, health insurance, alcohol, and the like all increased by .25-1% in May.](#)
- June 17, 2020: [Federal Reserve Chairman Powell says economic activity is far below pre-pandemic levels despite 'modest rebound' in some areas. The Fed has purchased \\$3T in treasuries and agency-backed mortgage securities since early March in an attempt to prop up the market.](#)
- June 19, 2020: [German Chancellor Angela Merkel has warned the EU that the deepest recession since World War 2 is coming. She has stressed that cohesion and solidarity have never been as important as they are now.](#)
- June 23, 2020: [Yale economist Stephen Roach is predicting the dollar will fall very sharply, and is forecasting a 35% decline given the nation's deficit and dwindling savings among the COVID-19 pandemic.](#)
- July 30, 2020: [Warren Buffett's favorite indicator, the combined market capitalization of a country's publicly traded stocks divided by its GDP, has hit a record high, illustrating the stark difference between the booming stock market and the depressed domestic economy.](#)
- August 2, 2020: [A top Federal Reserve official has called for renewed lockdowns for 4-6 weeks in order to minimize the economic fallout of the COVID-19 recession/depression.](#)

Effective Policy

- Undated: [The leaked copy of the Obama administration's 69-page pandemic policy playbook, which categorizes respiratory viruses as a Tier 1 threat.](#)
 - [Downloaded version of the pandemic playbook if the original source is taken down.](#)
- August 13, 2009: [The Department of Defense's Pandemic Influenza playbook indicating how the DoD would combat a pandemic that infected 30% of the world's population, killed 2% of those infected, and caused global disruptions.](#)
 - [Downloaded version of the Pandemic Influenza plan if the original source is taken down.](#)
- April 20, 2020: [A bipartisan consensus plan for reopening the country via Testing, Tracing, and Supported Isolation, compiled by professors and researchers across the U.S. and a number of institutions \(including the National Domestic Workers Alliance, the Rockefeller Foundation, and more\).](#)
- April 24, 2020: [Japan will subsidize 100% of salaries for 10 million affected workers at small businesses throughout the pandemic.](#)
- Continuously updated: [New Zealand timeline \(population: 4.9 million\) that indicates it started a **country-wide lockdown** on March 25 after reaching **205 cases**.](#)

- April 27, 2020: [New Zealand is releasing its country-wide lockdown after 5 weeks, now that country-wide cases have fallen below 300. Only a single new case was reported on 4/27.](#)
- April 29, 2020: [California Governor Newsom has unveiled a multi-pronged plan to connect farms directly to food banks, bolster existing food distribution channels with the help of Amazon and Walmart, create a Pandemic EBT program that makes up to \\$1.4B available to families of children who qualify for meal plans at school already, and more.](#)
- April 29, 2020: [Vietnam has tested so effectively it has only had 270 cases and no deaths, in a country of 96 million that borders China. It has achieved this by conducting 791 tests per positive case \(.1% test positivity\) and very selectively quarantining populations \(only 82,000 people at any one time\). This data hasn't been independently confirmed, but calls to hospitals, morgues, and other related indicators have confirmed very low infection rates.](#)
- April 29, 2020: [Taiwan has confirmed 429 cases of COVID19, and just 6 deaths, despite its proximity to China. Its leadership is profoundly on edge as a result of being publicly lauded, because any public appreciation of its policies puts it in direct conflict with China.](#)
- May 4, 2020: [There are no new cases of COVID19 in New Zealand.](#)
- May 13, 2020: [Ohio cities are having restaurants move dining areas outside to reduce risk of indoor COVID19 transmission.](#)
- May 14, 2020: [Berkeley, CA and other California cities are having restaurants move onto streets and sidewalks in order to reduce the risk of indoor COVID19 transmission.](#)
- May 14, 2020: [80% of the counties with the highest rates of coronavirus infections are in Southern California, near Los Angeles. Cases appear to be driven by prisons, meat packing plants, and elder care homes.](#)
- May 15, 2020: [The Netherlands is advising single people to find a sex buddy for quarantine, as it has been under 'intelligent lockdown' since March 23 and wants to address potential long-term mental health issues.](#)
- May 18, 2020: [New Zealand has reported no new cases for the second straight day.](#)
- May 19, 2020: [The San Francisco Bay Area reported zero COVID-19 deaths 2 days in a row for the first time since March. There are currently 11,120 cases in the Bay Area, with 390 reported deaths. The Bay Area is preparing to move to Phase 2 of reopening.](#)
- May 26, 2020: [Japan has ended its COVID-19 state of emergency by meeting its metrics of .5 cases per 100,000 people with voluntary and not very restrictive social distancing, and without large-scale testing. The country focused on finding clusters of infections, testing strategically, and attacking underlying businesses causing outbreaks \(like gyms, nightclubs, and other overcrowded spots\).](#)
- June 8, 2020: [New Zealand has no active cases and no new cases of COVID-19 for the past 48 hours, for the first time since February 28.](#)
- June 12, 2020: [Four entertainment unions \(DGA, SAG-AFTRA, IATSE, and Teamsters\) have teamed up and retained doctors and epidemiologists to write safe reopening guidelines for the entertainment industry.](#)
- June 18, 2020: [California has issued a statewide mask mandate as COVID-19 cases have spiked upon reopening.](#)

- June 20, 2020: [Japan has managed to keep unemployment at 2.6% \(up from 2.4% in February\) throughout the pandemic. Domestic output shrank 2.2% in the first quarter, but the country has maintained its workforce. Japanese culture prioritizes employee's interests over shareholder interests, and layoffs are culturally difficult to navigate. Japanese companies typically ask employees to put in long hours, but create a social contract that requires them to take care of employees in return: violating the social contract has severe repercussions. Widespread mask adoption, adherence to public health requirements, and volunteer closures helped Japan navigate the pandemic without significant upset. A huge number of workers were furloughed at 60% salary, but are now back to work.](#)
- June 23, 2020: [LA City Council has passed a \\$100M COVID-19 rent relief program to aid the 50,000 LA families who are out of work or suffering health effects from the pandemic.](#)
- June 24, 2020: [YMCAs around the country have been caring for 40,000 children of essential workers since the pandemic began, writing their own pandemic safety guidelines in March before CDC guidance was available. They've seen less than 1% positive COVID tests in their staff, and .16% positive COVID tests in their children, through a combination of keeping kids in stable 'pods', giving all staff PPE like masks, encouraging handwashing, and more.](#)
- August 6, 2020: [Kansas counties that have instituted mask mandates have seen a rapid drop in COVID-19 cases. 15 counties stuck with the state's mask mandate, while 90 abandoned it, and the only counties that posted improvements in cases were those that work masks.](#)

Ineffective/Harmful Policy

- April 6, 2020: [MIT has released a study featuring a machine learning model \(that is not yet peer reviewed\) suggesting that reversing quarantine measures right now \(4/6/2020\) will lead to an 'exponential explosion' of cases that will **reverse the effect of all quarantine measures taken by the US thus far.**](#)
- April 17, 2020: [Texas plans to reopen starting next week even though case rates are still rising](#)
- April 17, 2020: [Social distancing guidelines are **observed 40% less** in Republican areas.](#)
- April 17, 2020: [The VA has instructed HCW that are positive for COVID19 to remain on the job.](#)
- April 18, 2020: [Florida beaches **reopened** even though case rates are still rising](#)
- April 20, 2020: [Georgia is reopening starting April 24, only 3 weeks after shutting down.](#)
- April 20, 2020: [South Carolina is reopening after only 22 days being locked down.](#)
- April 24, 2020: [Wisconsin is easing stay-at-home order as a result of protests.](#)
- April 24, 2020: [Singapore had one of the most effective lockdowns in Asia \(including thorough contact tracing\), but is now suffering from the **worst outbreak in Asia**](#)

afterward with 11,000 cases. The most recent outbreak was **driven by migrant workers being housed in crowded, unsafe conditions.**

- April 28, 2020: Arizona businesses have decided to reopen en masse regardless of shelter-in-place orders.
- May 2, 2020: A city in Oklahoma has lifted its emergency declaration requiring customers to wear masks less than 24 hours after it was proclaimed, after threats of violence to employees in stores across the city.
- May 2, 2020: Mississippi is reconsidering reopening after coronavirus cases and deaths spiked on the day it was set to announce relaxation of restrictions.
- May 2, 2020: Missouri is allowing live events of any size/scale so long as 'proper precautions are taken', starting on 5/4.
- May 5, 2020: A Republican lawsuit challenging Wisconsin's shelter-in-place order could neuter the public health agency's ability to impose quarantine or lockdown procedures, and force any such procedures to be subject to a 2-week-long legislative process.
- May 5, 2020: President Trump is planning on winding down the coronavirus task force over the next few weeks, even as the pandemic continues.
- May 6, 2020: Dallas restaurant workers at the Hillstone Restaurant Group were told not to wear masks, or risk losing their jobs.
- May 7, 2020: Iran's coronavirus cases jump 50% 3 weeks after starting a phased reopening the country, right as the next phase is supposed to begin.
- May 8, 2020: After being widely hailed as having one of the best initial responses to COVID19 outbreaks, and reopening businesses, South Korea has **shut down its bars and nightclubs for 30 more days** after a single COVID19-positive person went bar hopping and exposed over **1,500 people.**
- May 10, 2020: President Trump is encouraging Americans to go back to work while Vice President Pence and others in the White House are self-isolating due to an outbreak among White House staff, including the Vice President's press secretary, Trump's valet, members of the joint chiefs of staff, and others.
- May 11, 2020: Initial CDC guidance about limited use of PPE when treating COVID19 patients was the direct result of a lobbying effort due to supply chain issues acquiring PPE, rather than medical soundness.
- May 13, 2020: Virginia is now combining results from viral and antibody tests in its reporting, which threatens to confuse America's understanding of the pandemic spread. Reporting standards are different for every state, making it difficult to compare.
- May 16, 2020: Deborah Birx, coordinator of the White House coronavirus task force, is publicly denouncing the CDC and saying she can't trust its numbers because they are late and inaccurate. The CDC has additionally been prevented from publishing a detailed 68-page reopening guide by the White House, and was recently forced to condense it to a 6-page set of flowcharts.
- May 18, 2020: A week after 33% of French schoolchildren went back to school, 70 COVID-19 cases flared up linked to those schools. 7 schools in northern France have now closed as a result.

- May 18, 2020: [A Georgia church has shut down 2 weeks after Georgia reopened after several families have become infected by COVID-19. In-person worship has been suspended for the foreseeable future. Services were performed in a manner according to CDC guidance on social distancing, and only 25% of the congregation chose to attend.](#)
- May 19, 2020: [1.6 million Texans have lost their employer-sponsored health insurance as a result of unemployment from the pandemic, during the pandemic.](#)
- May 20, 2020: [After reopening on May 11, Alabama ICUs are now at capacity. Patients are now being transported up to 90 miles to receive care.](#)
- May 21, 2020: [Immunity passports have been used in previous pandemics have been used to separate populations into groups that could intermarry, take prestigious jobs, and more. Yellow fever immunity became a tool of white supremacy in Louisiana.](#)
- May 21, 2020: [Just 7.3% of Stockholm had immunity at the end of April, despite Sweden believing it was close to achieving herd immunity.](#)
- May 26, 2020: [President Trump halted new federal regulations that would've required hospital systems to prepare for a respiratory virus in 2017.](#)
- June 11, 2020: [Florida Governor DeSantis plans to reopen public schools at full capacity in the fall because the state's economy depends on it.](#)
- June 12, 2020: [Arizona Governor Doug Ducey has said that Arizonans need to learn to live with the coronavirus, as Arizonan ICU beds reach 80% capacity, while dismissing the need to require mask use.](#)
- June 14, 2020: [Hospital bed usage in Orange and Seminole, Florida, now exceeds 80% capacity but officials say there is no cause for concern. The state is now reporting the highest number of cases in a single day.](#)
- June 15, 2020: [Half of inspected LA restaurants aren't following COVID-19 reopening rules, according to the county.](#)
- June 15, 2020: [Dr. Fauci has stated that the U.S. government did not promote face masks because it knew supply shortages were so bad doctors could not get enough.](#)
- June 17, 2020: [Las Vegas has seen record coronavirus infections two weeks after it reopened casinos. While casinos were required to restrict density, reporting indicates social distancing precautions weren't followed, and face masks were not widely used.](#)
- June 18, 2020: [Nebraska's Governor has stated that counties that require masks within government facilities won't get federal virus relief funds.](#)
- June 18, 2020: [Garuda Indonesia, the country's flagship carrier, is planning on banning flight attendants from wearing masks after passengers complained they couldn't see the attendants' smiles.](#)
- June 20, 2020: [AMC theaters stated they would not be enforcing mask-wearing within theaters \(stating they "didn't want to get drawn into political controversy"\), and then reversed course within hours after public outcry.](#)
- June 21, 2020: [President Trump has stated that he asked officials to slow coronavirus testing down in order to keep infected numbers down, after 119,000 Americans have died of COVID-19.](#)

- June 23, 2020: [After the White House suggested that President Trump was joking about asking to slow down testing. President Trump confirmed he wanted to slow down testing and said “I don’t kid”.](#)
- June 22, 2020: [The White House has stopped screening mandatory temperature checks and symptom screening for COVID-19 for visitors.](#)
- June 22, 2020: [Larry Kudlow, Director of the National Economic Council, has said that “a second wave of the coronavirus isn’t coming” and mentioned President Trump is interested in a new round of stimulus payments.](#)
- June 23, 2020: [The Trump administration is ending federal funding and support for 13 local COVID-19 testing sites across five states, which were originally set up to speed up testing at the local level. 7 of these testing sites are in Texas, which is currently experiencing a record spike in cases.](#)
- June 23, 2020: [Texas Governor Abbott, on the 11th day of record-high COVID-19 cases and a doubling of hospitalizations since Memorial Day, has stated growth trends are “unacceptable” but has declined to issue any new restrictions on Texans.](#)
- June 25, 2020: [Texas paused its reopening plan amid record coronavirus cases, but has stated “The last thing we want to do as a state is go backwards and close down businesses.”](#)
- June 25, 2020: [The Trump administration has asked the Supreme Court to overturn the Affordable Care Act in the middle of a national pandemic. 20 million Americans could lose their health coverage.](#)
- June 26, 2020: [Texas and Florida have only closed bars today after record-setting daily COVID-19 caseloads. Florida reached 8,942 cases in one day after a previous record of 5,508 cases two days before, and Texas has passed 10% test positivity while reaching record daily high caseloads.](#)
- June 26, 2020: [Starr County, TX had managed to keep COVID-19 contained early in the pandemic by imposing quarantines on people who tested positive and closing superspreading businesses. Texas Governor Abbott overrode the local decisions and forced a more-lax statewide reopening policy. Cases are now spiking and Abbott is backpedaling on reopening given statewide spikes.](#)
- June 27, 2020: [President Trump’s campaign ordered social distancing stickers be removed from the venue of his in-person rally in Tulsa, OK.](#)
- August 5, 2020: [Virus testing across the U.S. is decreasing as deaths and cases increase. As of this writing the test count has dropped 3.6% nationally, with testing rates in 22 states decreasing.](#)
- August 31, 2020: [Contact tracing is not seeing success in the U.S. because tracers have no ability to enforce isolation, there is no consolidated national program, tracers have only been able to reach a fraction of people who’ve tested positive, and 25-50% of Americans contacted by contact tracers never pick up the phone.](#)
- October 1, 2020: [179 million Americans are at risk of having utilities turned off as unpaid bills stack up during COVID-induced unemployment.](#)

Reopening

- Undated: [Johns Hopkins University warns against relying on beliefs of 'early herd immunity'](#), and states bluntly that herd immunity requires 70% population exposure, which may translate to 500,000 deaths in the U.S.
- March 17, 2020: [Even when society 'reopens', it looks like we will need to periodically revert to social distancing and quarantine every few months to prevent further hospital overruns, until a vaccine is developed.](#) Businesses that rely on people congregating will be perpetually disrupted for 12-18 months.
- March 24, 2020: [A simulation done for The Lancet Infectious Diseases journal found that the best combined approach to reopening with a low R0 was to physically distance, quarantine homes of infected individuals, close schools, and enforce workplace distancing.](#)
- March 27, 2020: [During the Spanish Flu, the cities that were most effective at reducing mortality per capita started social distancing requirements early and kept them going for longer. Cities with effective social distancing reduced mortality rates by 50% over those that weren't effective, on average.](#)
- March 30, 2020: [Shelter-in-place likely only delays the pandemic; unless other measures are taken, infection simply restarts when shelter-in-place is removed. The duration of containment efforts doesn't matter with respect to total number of eventual infections unless scientific advancements are made.](#)
- April 8, 2020: [Singapore, widely hailed for its effective coronavirus response, has just had to close most workplaces and schools for a month because of new outbreaks.](#)
- April 13, 2020: [Hokkaido Prefecture has had to reissue a state of emergency and revert to shelter in place less than 1 month after only closing for 3 weeks.](#)
- April 14, 2020: [California has a 6-point, science-driven plan for how to reopen, with no fixed timetable.](#)
- April 18, 2020: [Reopening has to be incremental to avoid wide scale infections; the New York Times predicts we will be opening and locking down cyclically for the next 2 years to keep infections down.](#)
- April 21, 2020: [Italy sees its first drop in active coronavirus cases after 6 weeks of national lockdown. The lockdown is expected to continue through May 3 \(7.5 weeks\).](#)
- April 23, 2020: [ProPublica interviewed experts and frontline responders from Italy, Germany, Spain, Singapore, Taiwan and South Korea about what it takes to reopen, and it requires: an army of contact tracers \(20k for California alone\); constant testing of everyone; isolating infectious people from their families; meticulous protection of healthcare workers; not attempting to go back to 'normal'; staying ever-vigilant for next waves; constant and clear communication.](#)
- April 23, 2020: [Angela Merkel believes that we are still at the beginning of the COVID19 pandemic and urges caution.](#)
- April 24, 2020: [The epidemiological danger of just visiting one friend during shelter-in-place](#)

- April 25, 2020: [Given the lack of evidence that people who have recovered from COVID19 are protected from reinfection, the WHO warned governments against issuing "immunity passports" to go back to work.](#)
- May 1, 2020: [A panel of experts at the Center for Infectious Disease Research and Policy at the University of Minnesota believes that the coronavirus pandemic will last for 2 years and won't stop until 70% of the world's population is immune \(whether by having caught the virus, or by vaccine\).](#)
- May 1, 2020: [The WHO is warning that the world must prepare for a second and third wave of COVID19 until a vaccine is available.](#)
- May 1, 2020: [Three potential scenarios for COVID19 reopening: recurring small outbreaks, a monster wave, or a persistent crisis.](#)
- May 13, 2020: [Lebanon, South Korea, Wuhan, Germany, Iran, Japan, and other countries around the world are now locking down a second time after reopening their economies.](#)
- May 17, 2020: [108 million people face a renewed lockdown in China after new coronavirus cases in the Jilin region. New cases appear to have longer asymptomatic cases, and are suspected to have come from Russia.](#)
- June 12, 2020: [The first wave of coronavirus in the U.S. has not subsided. We are not in a second wave, we have not made it through the first. The U.S. briefly achieved a reproduction rate of .91 with broad shelter-in-place policies, but is now stuck at a reproductive rate around 1, meaning that everyone who is sick now infects 1 other person; this means COVID-19 would simply kill 25-30,000 people a month for a very long time.](#)
- June 12, 2020: [Beijing has canceled movie theater reopenings, dine-in restaurant reopenings, school reopenings, and rescheduled sporting events in the wake of three new COVID-19 cases. The first case was on Thursday, June 11.](#)
- June 14, 2020: [Confirmed Beijing cases have grown from 1 to 79 in 3 days after an outbreak in the city's largest fruit and vegetable market, Xinfadi. Cases have spread to another market, and 20 residential compounds across the city are locked down.](#)
- June 15, 2020: [Some Florida bars are shutting down again one week after reopening, after recent patrons tested positive. Some bars shut down because customers called them to let them know they tested positive.](#)
- June 16, 2020: [Beijing has now banned travel outside of the city if you've been to Xinfadi in the last 14 days, and otherwise banned travel outside of the city unless you've tested negative in the past 7 days. 106 infections have been detected.](#)
- June 25, 2020: [Despite reopening quickly, the US economy has faltered and is not recovering quickly the way the Trump administration expected. All economic indicators in reopened states, such as hours worked, consumer confidence, and the like, are down in reopened states.](#)
- June 27, 2020: [9 US states have halted reopening plans amid escalating COVID-19 infections. Arizona, Arkansas, Delaware, Idaho, Louisiana, Maine, Nevada, New Mexico and North Carolina have all paused plans.](#)

- June 27, 2020: [12 US states have halted reopening plans amid the surge in COVID-19 cases. Texas, Georgia, Idaho, Tennessee and Utah reported the highest single day totals of COVID-19 infections according to their health departments.](#)

Partisan & State/Federal Conflict

Partisan Antagonism

- March 18, 2020: [Republicans believe the media has greatly exaggerated the coronavirus threat.](#)
- March 30, 2020: [Social distancing has already become a political issue.](#)
- April 15, 2020: [A growing Republican protest movement is already pushing back against stay-at-home orders and social distancing.](#)
- April 17, 2020: [President Trump is actively calling on supporters to “liberate” Democratic states under shelter-in-place orders.](#)
- April 17, 2020: [On 4/16, President Trump declared that governors should set the pace for their states’ recovery. On 4/17, President Trump actively called for states with shelter-in-place policies be “liberated” from those policies.](#)
- April 17, 2020: [The ‘Liberate’ tweets were a minute-by-minute direct response to Fox News programming.](#)
- April 17, 2020: [Social distancing is becoming deliberately politically polarized by Trump’s tweets. This appears to be deliberately linked to Fox News Coverage.](#)
- April 17, 2020: [Governors are already condemning President Trump’s call to action, accusing the President of fomenting domestic rebellion.](#)
- April 17, 2020: [QAnon conspiracy theorists and alt-right extremists picked up on President Trump’s “LIBERATE” tweets and began suggesting that they should start working on a second civil war. Prominent right wing spokespeople are now amplifying the initial protest movements to attract further attention.](#)
- April 18, 2020: [There appears to be a large, coordinated, well-funded strategy behind the protests that sprang up all over the country at the same time. The local organizations that are coordinating protests are being created at the same time, from the same places, with the same marketing copy.](#)
 - [Backup PDF copy in case the reddit post is taken down.](#)
- April 20, 2020: [The small business rescue program appears to deliberately under-fund democratic states](#)
- April 22, 2020: [Mitch McConnell has explicitly suggested that blue states go bankrupt instead of getting bailed out further for budget shortfalls.](#)
 - April 25, 2020: [It is believed that this move is driven by a desire to have the Republican federal government assign state funding priorities in bankruptcy proceedings.](#)

- April 23, 2020: [Amazingly, President Trump is now **dropping support for and criticizing Republican governors** that open up **too early**, in addition to criticizing Democratic governors that open too late.](#)
- April 24, 2020: [The National Republican Senatorial Committee has sent a 57 page memo to political campaigns that includes advice on how to **blame China for COVID19**, and how to **tie Democrats to China**: they are also told to not bother defending Trump.](#)
- April 28, 2020: [Louisiana's Republican party has issued a memo outlining guidance on how to undermine shelter-in-place orders.](#)

Power Dynamics

- October 31, 2013: [California produces an astonishing amount of fresh produce for the US, including 90% of broccoli, 99% of walnuts, 97% of plums, 89% of cauliflower, 95% of celery, 95% of garlic, 71% of spinach, and so on; the state is the #1 US agricultural producer and exporter.](#)

Regional Pacts

- November 4, 2017: [Russian trolls have **specifically attempted to drive a wedge between California and the federal government before** by promoting California secession, and this is prime territory for misinformation campaigns now that the governor himself is actually using the terminology.](#)
- April 9, 2020: [California's governor is already using "**nation-state**" and "**export**" terminology to define how California is handling ordering supplies and distributing them to friendly states. This is perceived to be a warning shot to the federal government.](#)
- April 13, 2020: [Washington State has just announced the **Western States Pact** between Washington, Oregon and California, for the stated purpose of coordinating a science-based COVID-19 response to reopening their economies and providing for their citizens.](#)
- April 13, 2020: [Andrew Cuomo has just announced a northeast regional coalition consisting of **NY, NJ, CT, PA, DE, RI and MA**, that will coordinate COVID-19 response together.](#)
- April 16, 2020: [There is now a **midwestern bloc** in addition to a northeastern bloc and a western states pact.](#)
- April 27, 2020: [Colorado & Nevada have now joined the Western States Pact.](#)
- April 28, 2020: [A public map is now showing around 8 separate state coordination pacts across the U.S.](#)
- May 11, 2020: [The Western States Pact has now jointly requested \\$1T from the federal government to boost state budgets.](#)

Supply Seizures

- April 2, 2020: [Massachusetts had to have the owner of the Patriots fly his private jet to China, pick up N95 masks, and fly them back under guard in order to receive medical supplies.](#)
- April 7, 2020: [Illinois' comptrollers office paid \\$3.5M for PPE in a McDonald's parking lot in order to acquire PPE after the federal government told states to fend for themselves.](#)
- April 8, 2020: [FEMA has now seized multi-million dollar medical supply orders from 7 states with no explanations and no reimbursements, after directing states to place their own orders with suppliers directly.](#)
- April 11, 2020: [FEMA is also seizing relatively small orders of supplies from groups like local fire departments; 30,000 gowns were seized on the way to a Massachusetts fire department.](#)
- April 17, 2020: [In order to acquire PPE, a chief physician for Bay State Health in Massachusetts personally tracked down a Chinese supplier of KN95 respirators, paid 5x more than usual for them, met suppliers in the middle of nowhere who arrived in tractor trailers disguised as food trucks, received 25% of what they asked for, and were intercepted by FBI agents who only didn't seize the supplies with DHS because the physician called his congressional representative. The account was submitted to the 208-year-old New England Journal of Medicine for posterity.](#)
- April 18, 2020: [Illinois has had to secretly import PPE to avoid federal government seizure.](#)
- April 19, 2020: [The federal government is blocking states from acquiring PPE, resulting in states secretly importing PPE through various blockades.](#)
- April 21, 2020: [A Delaware medical supplier had 400,000 N95 masks seized by FEMA and has receipts to show for it.](#)
- April 23, 2020: [Reddit user NotSoAngryAnymore lays out a case for how the federal government is seizing and reselling state-ordered PPE through new companies that just started.](#)
 - [Backup PDF in case the Reddit post is taken down.](#)
- April 25, 2020: [Even the Veterans Administration has had PPE stolen from it.](#)
- April 30, 2020: [Republican Governor Larry Hogan of Maryland has said that test kits Maryland ordered from South Korea are being hidden in an undisclosed warehouse and guarded by the National Guard to prevent the federal government from seizing them.](#)
- May 6, 2020: [Jared Kushner directed a volunteer team of interns to create a Google Spreadsheet full of leads of medical supply manufacturers and distributors to pass to Vice President Pence in order to offer guidance to states placing PPE orders. Trump supporters and associates were prioritized as leads, and often included manufacturers or distributors who had never created medical products before.](#)
- May 6, 2020: [Blue Flame Medical, a Republican operative-led startup medical supply distribution promoted by the Trump administration, has recently had orders for medical](#)

[equipment worth over \\$500M canceled by California and Maryland. The U.S. Justice Department has opened an investigation.](#)

- May 21, 2020: [The federal government has seized COVID-19 testing equipment from Minnesota mid-shipment. PPE has also been stolen. Mike Pence and Deborah Birx could not tell Governor Walz what happened to it.](#)
- June 5, 2020: [US Postal Service inspectors, acting on behalf of an unnamed federal agency, have seized custom cloth masks made for Black Lives Matter protesters.](#)
- June 5, 2020: [Federal agents have now released BLM masks made for protesters.](#)

Public Sentiment

COVID-19

- Continuously updated: [Ipsos' continuing coverage of COVID-19 related polling \(including approval polls, consumer confidence, etc.\), as it affects society more broadly.](#)
- May 27, 2020: [Only 50% of Americans would get a COVID-19 vaccine if one were available. 20% would refuse to get vaccinated, and 30% aren't sure. 70% of those who wouldn't get vaccinated are worried about the vaccines' safety. Black Americans are much less likely to be interested in a vaccine, with only 25% saying they would get a vaccine, and 40% saying no.](#)
- June 17, 2020: [Americans' concern about COVID-19 has plateaued over the past two months. 29% of Americans are "very worried" about them or someone in their family being exposed to coronavirus, and 66% of Americans are "very worried" or "somewhat worried" about them or someone in their family being exposed to coronavirus. Black and Hispanic Americans are noticeably more concerned than white Americans; both communities had more tallies for "very worried", and 80% of Hispanic Americans are either "very worried" or "somewhat worried". Democrats are 3x more likely to be "very worried" than Republicans.](#)
- August 8, 2020: [35% of Americans would decline a COVID-19 vaccine even if it was free. 81% of Democrats would be willing to take it, but only 47% of Republicans would be willing to.](#)

Crime

- August 3, 2020: [Americans believe crime is rising and is a far worse issue than it actually is. Americans estimate their chances of being robbed at 15% in a given year; actual rates are 1.2%. Americans consistently overestimate their crime risk.](#)

George Floyd Protests

- June 1, 2020: [54% of U.S. adults support the ongoing protests in response to the death of George Floyd. 79% of adults surveyed said they had seen some or all of the video of George Floyd's death.](#)
- June 2, 2020: [A Monmouth University poll has found that 70% of Americans believe racial and ethnic discrimination is a big problem; that 70% of Americans believe the country is heading down the wrong track; that a majority \(57%\) of the country now believes a police officer uses excessive force if a culprit is black. "It seems we have reached a turning point in public opinion where white Americans are realizing that black Americans face risks when dealing with police that they do not."](#)
- June 3, 2020: [54% of Americans think burning down a police precinct after George Floyd's death was justified.](#)
- June 4, 2020: [President Trump is now 7.8% behind Joe Biden as a result of how he is handling the George Floyd protests.](#)
- June 5, 2020: [74% of Americans view George Floyd's death as an underlying racial injustice problem.](#)
- June 5, 2020: [Public support for the George Floyd protests **increased by 8% in less than a week**, and support for the National Guard being called in to manage the protests **decreased by 13%** in the same timeframe. 62% of Americans now support the George Floyd protests.](#)
- June 9, 2020: [Longitudinal polls of public opinion around racial discrimination in the US, acknowledging deadly force is more likely to be used on Black people, acknowledging that no real progress has been made on discrimination since the 1960s, and more have shown that the George Floyd protests have dramatically increased awareness of these issues and shifted public opinion quickly. Police have increased in unfavorability from 20% to 35% in only a few weeks, and over 50% of the country now supports Black Lives Matter.](#)
- June 10, 2020: [In only 2 weeks, American voters' support for Black Lives Matter has increased as much as the past 2 years. Net support for Black Lives Matter among all voters has shifted 28%.](#)
- June 11, 2020: [The Black Lives Matter movement is more popular than President Trump or Democratic candidate Joe Biden; 53% of Americans currently support Black Lives Matter, with only 25% opposing it country-wide.](#)
- June 15, 2020: [A longitudinal survey shows an increase in acknowledgement of white privilege of 14% amongst white Americans as a result of the George Floyd protests. Around 70% of millennials acknowledge white privilege, and both boomers and Gen X reached 50% acknowledgement. Increased acknowledgement of white privilege appears to be coming almost exclusively from Republicans and independents, with around 75% of Democrats already acknowledging their privilege.](#)
- June 16, 2020: [A podcast on NPR asked a number of white people why they decided now was the time to support Black Lives Matter, when the movement has been so](#)

[unpopular before. President Trump's antagonism and racism was mentioned in almost every message. COVID-19 played a fairly large role \(many cited their worries about their personal health being forefront, and having empathy for George Floyd; others mentioned lockdown taking away many distractions that allowed them to ignore inequality\), and many said their white peers also speaking up brought many more out from the sidelines.](#)

- June 24, 2020: [According to a new poll from Suffolk University, 85% of Massachusetts residents support Black Lives Matter. Only 10% oppose or strongly oppose.](#)
- July 31, 2020: [Just 36% of Americans approve of President Trump's handling of the George Floyd protests. 52% of Americans believe the deployment of federal officers to protests has made the situation worse.](#)

Economy

- Continuously updated: [The U.S. Census Bureau is tracking businessowner sentiment for 1 million small businesses \(1-499 employees, receipts of \\$1,000 or more, that responded to a 2017 Economic Census\) across the U.S. on a 9-week rotation, with a two-week lag. These sentiments are longitudinally informing the government how small businesses are withstanding the pandemic.](#)
- May 20, 2020: [77% of laid off workers believe they will return to their old job. Only 50% of those who've been laid off have applied for unemployment. 74% of people surveyed believe the U.S. should keep trying to slow the spread of the coronavirus, even if it means keeping businesses closed. Only 25% believe that the economy should be reopened to get things going again.](#)
- June 18, 2020: [According to a poll of 1,987 registered voters conducted from June 12-14, 75% of voters support keeping or expanding the \\$600/wk supplemental unemployment benefits that the federal government is providing for those who lost their jobs during the pandemic. Only 13% want benefits to be reduced.](#)
 - June 17, 2020: [Morning Consult's writeup of the poll it conducted, noting that the Trump administration will push for the weekly unemployment benefit to end on July 15.](#)
- June 18, 2020: [Consumer confidence has receded to where it was in May, wiping out a month and a half of gains, after COVID-19 surged across the country. It is 14 points higher than it was in March at the start of the pandemic.](#)

Mask Politicization

- May 16, 2020: [A campground in Wisconsin is refusing to allow people to wear masks while attending.](#)
- May 22, 2020: [A spate of American stores have started restricting masks in the store as a political statement. Convenience stores, campgrounds, industrial distributors, and others have insisted masks not be worn.](#)
- May 28, 2020: [Bars, taverns, gas stations, and other businesses are banning masks.](#)

- May 28, 2020: [Mitch McConnell is now urging people to wear masks, saying there is no stigma to wearing a mask.](#)
- June 8, 2020: [Orange County's Health Officer has resigned after facing harassment for issuing a mandatory face mask order.](#)
- June 15, 2020: [After months of publicly declaring he will not wear a mask, and inspiring Republicans to not wear masks as a show of politicization, the Trump campaign will be giving out masks to attendees of the first Tulsa, OK campaign rally, and will be requiring fever checks before admission.](#)
- June 17, 2020: [COVID-19 cases are now being added faster in Republican states and counties than Democrat states and counties; Democrat-controlled urban centers have now slowed COVID-19 growth, while Republican rural areas are just picking up.](#)
- June 18, 2020: [President Trump believes some Americans are wearing masks to show they disapprove of him, and not as a preventative measure during a pandemic.](#)
- June 20, 2020: [Most attendees at President Trump's Tulsa, OK rally opted not to wear face masks, going against guidance from public health officials and the CDC.](#)
- July 30, 2020: [McDonalds CEO Chris Kempczinski stated that restaurants may bring in law enforcement if customers refuse to comply with mask policies.](#)
- July 30, 2020: [The co-founder of Pro-Trump youth group Turning Point USA has died of COVID-19, and TPUSA subsequently deleted anti-mask tweets.](#)
- August 3, 2020: [82% of voters support a national mask mandate; 93% of Democrats, 85% of independents and 66% of Republicans support it.](#)

Mental Health

- Undated: [A COVID19-specific mental health guide with a number of linked resources.](#)
- January 8, 2018: [In recessions and depressions, suicides go up but other types of death go down.](#)
 - March 16, 2020: [The unfairness of the American economy, and unemployment, significantly contribute to 'deaths of despair'. Deaths from suicide, drug overdoses, and alcohol-related liver disease among working-age white men and women without college degrees have risen so much that life expectancy for the U.S. as a whole dropped for 3 years.](#)
- April 10, 2020: [A mental health hotline has experienced an **891% increase** in call volume year-over-year in March.](#)
- April 15, 2020: [Bay Area suicide prevention hotlines are seeing call volumes **double week over week.**](#)
- April 17, 2020: [The Chicago Tribune discusses ways current coronavirus "bubbles" of affiliated people have been formed across the world, and talks about the need for guidance around how to create and maintain such bubbles.](#)
- April 28, 2020: [A top ER doctor treating coronavirus patients in New York has committed suicide.](#)
- May 8, 2020: [The pandemic may result in up to 75,000 excess "deaths of despair" from suicide, drug, and alcohol abuse.](#)

- May 9, 2020: [MIT has released a guide to negotiating new epidemiological “bubbles” with other people and households in order to maintain mental health during quarantine.](#)
- May 11, 2020: [A professor of population medicine at Harvard Medical School is calling for the creation of a manual on how to have a life during a pandemic in the interest of improving mental health. It references the “How to Have Sex in an Epidemic” guide that was written during the AIDS epidemic in 1983.](#)
- May 14, 2020: [The WHO has warned that COVID19 may become endemic and never go away, and that there is a mental health crisis brewing: “the mental health and wellbeing of whole societies have been severely impacted by this crisis and are a priority to be addressed urgently”.](#)
- May 14, 2020: [Suicides in Japan decreased by 20% as a result of the lockdown, possibly as a result of increased socialization with family.](#)
- May 15, 2020: [The Dutch government is now suggesting single people find a sex buddy for lockdown.](#)
- June 17, 2020: [A 20-year-old Robinhood customer has committed suicide after seeing a -\\$730,000 balance in his stock trading app due to overleverage and market volatility.](#)
 - March 3, 2020: [Investopedia clarification of how you can lose more money than you invest in a shorted stock.](#)

Pandemic Policies

- April 20, 2020: [81% of Americans want shelter in place policies, suggesting protestors are in a dramatic minority.](#)
- April 20, 2020: [A Newsweek poll suggests 90% of Americans back social distancing measures.](#)
- April 20, 2020: [A plurality of Republicans \(47%\) oppose the shelter-in-place protests, and only 22% of Americans support the protests.](#)
- April 22, 2020: [Las Vegas workers are pushing back after the mayor called to reopen casinos and hotels.](#)
- April 23, 2020: [Only 13% of Americans would “definitely” return to public places if restrictions were lifted today; 71% would not visit bars, 85% would not board an airplane, 87% would not attend a large event.](#)
- April 29, 2020: [76% of Americans support or strongly support locking down for another 2 weeks, indicating public perception is not shifting significantly as a result of protests.](#)
- May 4, 2020: [A poll from Washington Post/UMD shows that 80% of Americans oppose reopening movie theaters and gyms and 75% don’t want nail salons and sit-down restaurants reopened.](#)
- May 5, 2020: [According to a Maryland poll, 67% of Americans would be uncomfortable shopping at a retail clothing store and 78% of Americans would be uncomfortable eating at restaurants, despite states reopening early. People with looser rules around reopening report similar levels of discomfort as those with stricter rules.](#)
- May 18, 2020: [Jacinda Ardern is now New Zealand’s most popular prime minister for the past 100 years after successfully managing the COVID-19 response.](#)

- June 23, 2020: [Americans are increasingly concerned about a 'second wave' of coronavirus in the US. 56% are "extremely" or "very" concerned, and 85% are at least "somewhat" concerned. This is up from 48% and 80% in early June.](#)
- June 24, 2020: [#AbbottResign is trending nationwide as calls mount for the Texas Governor to resign over his pandemic response. Though Texas is experiencing daily record highs for the past week, no new government restrictions have been issued.](#)
- June 24, 2020: [Americans support returning to lockdown if cases spike. 65% of the population over the age of 18 supports returning to lockdown if cases increase significantly.](#)

Politics

- April 1, 2008: [Economic downturns often torpedo re-election hopes of sitting U.S. Presidents, or White House aspirations for incumbent parties, particularly if they coincide with an election year.](#)
- April 25th, 2017: [68.7% of Republicans think President Trump exaggerates or intentionally lies, but are not bothered by it.](#)
- January 8, 2020: [California only became a solidly-Democratic state \(after voting for both Nixon and Reagan\) after Republicans pushed a culture war around denying public services to undocumented immigrants. Both the Republican Governor pushing the culture war, and Proposition 187 to deny public services, passed - but enough voters registered to turn California Democratic and stay that way for 20 years.](#)
- May 1, 2020: [How the pandemic of 1918 increased voter extremism in Germany from 1918-1933](#)
- May 12, 2020: [Brian Kemp, Georgia's governor, sees approval drop to 39% due to his handling of the pandemic. Republican and Democratic governors who have overseen more-stringent stay-at-home measures have seen high approval ratings, such as Ohio's Republican governor Mike DeWine at 86% approval.](#)
- May 14, 2020: [Generation Z \(born after 1996\) may be the hardest hit generation due to this pandemic; 50% of the oldest \(18 to 23 year olds\) reported that they or someone in their household lost a job or took a pay cut. This is much higher than Millennials \(40%\), Gen X \(36%\), and Boomers \(25%\). 77% disapprove of how Donald Trump is handling his job as President. It is the most diverse American generation, with only 52% being non-Hispanic white.](#)
- May 15, 2020: [A recent Washington Post-Ipsos poll of 8,086 randomly-selected Americans shows disapproval \(56%\) of how President Trump is handling the coronavirus outbreak, but **approval for how state Governors are handling outbreaks \(71%\)**. 42% believe President Trump is not doing enough to make sure people can return to work safely, but **69% believe their state Governors are doing enough** to return to work safely. **Only 16% of people surveyed believe restrictions aren't being removed quickly enough.** 74% of people surveyed believe the U.S. should keep trying to slow the spread of coronavirus \(which increases to 79% if people have been laid off\), even if it means keeping businesses closed; only 25% think we should get things going again.](#)

Only 50% of people who've been laid off have applied for unemployment benefits;
only 60% of people who've applied for unemployment benefits since March 1 have received them.

- May 18, 2020: Trump has lost significant amounts of older voters to Biden: a 4% lead over Hillary Clinton in the 45-64 age bracket has become a 1.4% lead for Biden, and a 13% lead over Hillary Clinton in the 65+ age bracket has become a 1% lead for Biden.
- May 18, 2020: The US Senate is now in play for Democrats electorally. Republicans are going to be tied to the President's popularity, handling of the pandemic, and handling of the economy - approval ratings for which are all decreasing.
- June 5, 2020: President Trump's favorability among white Catholics fell 23 points from 60% in March to just 37% in May, and this poll was BEFORE armored police cleared protesters out from in front of St. John's Episcopal church in Washington, D.C.
- June 10, 2020: President Trump's approval rating slid back down to 39% as Black Lives Matter gained significantly in popularity: approval is down among all groups (including a drop in Republican approval by 7%), and approval for handling specific issues is down sharply. Current approval ratings match President Trump's impeachment last year.
- June 10, 2020: President Trump has demanded CNN apologize for releasing a poll that shows him behind Joe Biden by 14%. CNN has declined, stating that threats of legal action regarding published poll results have usually come from countries like Venezuela. The polling tracks similar findings from polls across the country from a variety of outlets.
- June 10, 2020: 46% of registered voters report they will support Biden, vs. 38% will support Trump. 30% of voters indicate the economy/jobs as their top priority, followed by healthcare (18%) and 'other' (17%) which includes racism, police brutality, and civil unrest.
- June 12, 2020: Republicans are breaking from President Trump in record numbers. Few supported his controversial photo op in front of a church in Washington D.C., and several were outspoken about painting a 75-year-old man as a potential member of ANTIFA. Some Republican leaders are openly supporting Black Lives Matter. GOP-led committees (such as the Armed Services committee privately adopting a resolution to rename bases named for Confederate generals) are openly breaking from President Trump's policy.
- June 12, 2020: President Trump is losing public support in the military. Even Republicans within the military believe he has hurt the military through his actions positioning it against civilians. President Trump enjoyed 60% of the military voting for him last election.
- June 14, 2020: Presidential approval ratings historically haven't moved much for incumbents from June of an election year to Election Day.
- June 14, 2020: State polls are showing broad shifts towards Democratic candidates since the protests began. The shift towards Joe Biden at the national level is transferring to local levels; Joe Biden currently has double-digit advantages over President Trump across a number of national polls.
- June 16, 2020: Two Michigan surveys indicate that President Trump's photoshoot with a Bible in Lafayette Square caused an immediate drop in public support. Joe Biden lead

[by 12 points in a survey from May 30 to June 3, and then led by 16 points in a survey that ended June 4. The percentage of voters who felt the country was headed in the wrong direction increased from 63% to 70%.](#)

- June 18, 2020: [A number of prominent Republicans are now openly backing Democrat Joe Biden in an unprecedented rebuke of a sitting President that hasn't occurred in modern American history. New Republican PACs have been formed to support Biden, including Anthony Scaramucci's Right Side PAC, former Bush officials creating the 45 Alumni for Biden PAC, Bill Kristol's Republican Voters Against Trump, and the Lincoln Project.](#)
- June 18, 2020: [President Trump's polling numbers are now so bad GOP strategists are panicking about a "wipeout". Not only is President Trump trailing Joe Biden by 10 points, local races are looking just as bad downticket.](#)
- June 19, 2020: [President Trump has called Fox News' own polls 'terrible' and 'phony' as they project Joe Biden opening up a 12-point lead. Notably, President Trump's approval rating in the Fox poll remained constant at 44%, but 55% of Americans now disapprove.](#)
- June 21, 2020: [Despite President Trump's Tulsa, Oklahoma rally being advertised as having more than a million ticket registrations, and campaign staffers touting an over-subscribed event, only 6,200 people showed up to a venue that could seat 19,000. Campaign staffers have attempted to say that protesters blocked crowds from entering, but every reporter attending discredited this description. 59% of Americans believe crowded campaign events are a bad idea, and 70% of Republicans disagree with President Trump and have a favorable view of masks.](#)
- June 22, 2020: [After living through the era of school shootings, immigration is a hot-button issue, the pandemic, and the potential collapse of higher education and the economy as a result of the pandemic, Generation Z is ready for a revolution. It is the most racially and ethnically diverse generation yet: only 52% are non-Hispanic white, compared to 61% of Millennials.](#)
- June 24, 2020: [A New York Times/Siena College poll has found Joe Biden \(50%\) up 14 percentage points on President Trump \(36%\), which is among the lowest approval ratings of President Trump's presidency.](#)
- July 30, 2020: [A co-founder of the influential conservative Federalist Society has stated that President Trump's suggestion to delay the presidential election is grounds for impeachment.](#)
- August 7, 2020: [Americans do not want to delay the election, as President Trump suggests. Across a number of polls more than 66% of Americans want the election to stay on-schedule.](#)

Social Media

- March 24, 2020: [Facebook usage was up as much as 70% in areas hardest-hit by the pandemic, such as Italy.](#)
- April 20, 2020: [Messaging on social media platforms has increased as much as 50% in areas hardest-hit by the pandemic.](#)

- June 18, 2020: [A recent study out of the UK found that the more social media is consumed as a primary news source, the more people believe in coronavirus conspiracy theories. 60% of those who believe coronavirus is linked to 5G radiation get their news primarily from YouTube. 56% of people who believe there's no hard evidence for COVID-19 use Facebook as their primary information source. 58% of those who have gone outside with COVID-19 symptoms use YouTube as a primary information source. Belief in conspiracy theories is linked to non-compliance with pandemic policies.](#)
- June 22, 2020: [51% of U.S. adults are using social media at higher rates during the pandemic. Forecasts for the year indicate an increase of 8% more usage per day on average across the population.](#)

War

Civil War Tension

- July 23, 2018: [A detailed analysis of what factors power civil wars, and why a second American civil war may be remote.](#)
- November 26, 2019: [Right-wing extremists are planning for an event called 'the Boogaloo', which is slang for a coming Civil War. The people involved are primarily gun enthusiasts.](#)
- June 1, 2020: [DHS sent a memo to law enforcement officials around the US on May 29 warning that extremists could attempt to exploit the George Floyd protests; it cited "previous incidents of domestic terrorists exploiting First Amendment-protected events" as a reason the protests may be targeted by "domestic terrorist actors". It also revealed that the FBI observed "a white supremacist extremist Telegram channel incited followers to engage in violence and start the 'Boogaloo'."](#)
- June 3, 2020: [3 white supremacists \(who were reservists from the Army, Navy and Air Force\) attempting to spark the 'Boogaloo' civil war have been held in Las Vegas on terror charges. The group had molotov cocktails and other devices in their vehicle.](#)
 - [The men originally planned to destroy a fee station near Lake Mead, or a US Forest Ranger station.](#)
- June 10, 2020: [The far-right Boogaloo movement is attempting to hijack anti-racist protests for a race war. This article demonstrates a number of arrests over the past few months of Boogaloo members either plotting or attempting to execute acts of domestic terror in the interests of advancing racial war, including: attempting to bomb a hospital in Kansas City during shelter-in-place protests, threatening to kill police officers on Facebook live, attempting to spark violence in Las Vegas with molotov cocktails, seizing assault rifles and masks in Denver, and more.](#)
- June 11, 2020: [Steve Carrillo, a California man who was charged with murder after ambushing two Santa Cruz deputies, scrawled phrases related to the Boogaloo movement in blood on his car before being detained.](#)

- June 16, 2020: [On May 29, one federal police officer was killed and another injured during Oakland's George Floyd protests. The violence was framed as evidence that Oakland's protests were becoming violent. Police have now arrested the two men responsible for the shooting, at least one of which has ties to the 'boogaloo' movement.](#)

Historical Analogs

- December 11, 2007: [Japan's Pearl Harbor attack was a **direct result of U.S. moves to cut off Japan's oil supply**, which could be a significant issue given worldwide tension around oil prices and supply.](#)
- October 2013: [Harvard's Kennedy School Belfer Center estimates that **25-50% of all wars since 1973 have been linked to oil supply** in some way.](#)

International War Tension

- April 20, 2020: [Some believe that China is preparing for international war.](#)
- April 21, 2020: [Missouri is suing China and the CCP for the coronavirus pandemic.](#)
- April 21, 2020: [The US has sailed warships into disputed waters off of Malaysia, as a Chinese ship has been following a Malaysian oil prospecting ship.](#)
- April 22, 2020: [Trump orders the US Navy to **fire upon Iranian gunboats** if the Navy is being 'harassed'. "I have instructed the United States Navy to shoot down and destroy any and all Iranian gunboats if they harass our ships at sea."](#)
- April 22, 2020: [The US Navy has warships in the South China Sea that standing off with Chinese vessels, and the US is calling upon China to stop its "bullying behavior".](#)
- April 26, 2020: [China has **nationalized its medical supply chain**, and has **shut down traditional export processes to the world**. US orders for protective equipment are getting canceled outright, and China may demand political concessions for medical supplies soon. 3M, the US' largest PPE manufacturer, can **only produce 100M N95 masks a month**; the CDC has estimated a need for **50B N95 masks** over the course of the pandemic.](#)
- April 29, 2020: [The US has sailed a second warship into the South China Sea. China has claimed that aircraft were sent to expel the American ship from the region.](#)
- April 30, 2020: [After nationalizing its medical supply chain, China has threatened to **cut off the Netherlands from medical supplies** after the Netherlands changed the name of its own Taiwan representative's office.](#)
- April 30, 2020: [China has established two new administrative zones in the South China Sea \(Nansha and Xisha\), the Philippines strongly protests them and claims it infringes on Manila's sovereignty.](#)
- May 3, 2020: [New York Governor Cuomo calls shortages of PPE a national security risk; **"You can't be dependent on China"**](#)
- May 14, 2020: [The Chinese military is planning on simulating the seizure of a Taiwan-held island in the South China Sea.](#)

- May 15, 2020: [Chinese surveillance aircraft have now been sighted on islands in the South China Sea.](#)
- May 16, 2020: [EU foreign policy chief Josep Borrell believes China is attempting to divide and rule the EU by practicing specific diplomacy with member states individually instead of with the EU as a whole, and cautions EU members to act collectively.](#)
- May 17, 2020: [The US and China are restarting the trade war. The US has begun to remove Huawei equipment from rural US communities, is discussing increasing tariffs again before China can meet its commitments to reduce tariffs, and is creating new roadblocks to Chinese companies getting access to US equipment. The US remains dependent on China for rare earth metals, raw materials for medicines, and more.](#)
- May 18, 2020: [Chinese and Indian troops have been committed to a disputed region in the Galwan Valley. Indian troops are being accused of crossing the border and building fortifications on the Chinese side to initiate tensions.](#)
- May 18, 2020: [China has imposed an 80% tariff on Australian barley for 5 years in response to Australia wanting an investigation into the origins of coronavirus. This trade is typically worth up to \\$1.5B to the Australian economy.](#)
- May 20, 2020: [The US Senate has overwhelmingly passed a bipartisan bill to delist giant Chinese companies like Baidu and Alibaba from stock exchanges if they aren't being audited by US companies and can't verify they aren't under the control of foreign governments.](#)
- May 27, 2020: [President Xi Jinping has directed China's armed forces to comprehensively strengthen themselves and prepare for war.](#)
- May 28, 2020: [Indian media is claiming ten thousand Chinese troops are inside Indian territory, and tensions are flaring.](#)
- June 1, 2020: [Iran calls on the U.S. to stop violence against its own people, saying "Let Them Breathe".](#)
- June 6, 2020: [President Trump has withdrawn 10,000 troops from Germany as Russia has deployed more personnel to the region.](#)
- June 10, 2020: [The US has intercepted Russian bombers and fighters off the coast of Alaska in international airspace, which came within 20 miles of the Alaskan coast. This has happened in March 2020, and multiple times in 2019.](#)
- June 12, 2020: [The NIH has fired 54 scientists in an ongoing investigation into how China funds U.S. scientists. The fired scientists are accused of having taken funding without reporting it to the U.S. when applying for U.S. research funds.](#)
- June 13, 2020: [For the first time in three years, the U.S. Navy has mobilized 3 aircraft carrier strike groups in the Pacific. There are no details of their planned movements or exercises but it is assumed they will be operating to counter China in the South China Sea; Rear Admiral Stephen Koehler referred to China as the chief target.](#)
- June 16, 2020: [North Korea has destroyed a joint liaison office in Kaesong, used for communicating with South Korea, in an escalation of tension on the Korean peninsula. This comes after a campaign of leafleting from South Korea into North Korea.](#)
- June 16, 2020: [The India/China border has erupted into violence as 20 Indian troops have been killed in the Ladakh region. This is the first deadly clash in 45 years in the](#)

[region. India's external affairs ministry accused China of violating the Line of Actual Control \(LAC\) in the Galwan Valley. Both India and China insist no shots were fired.](#)

- June 17, 2020: [US fighters have now intercepted nuclear-capable Russian bombers and fighter escorts 4 times near Alaska in the last week. They have been intercepted 8 times in the past year.](#)
- June 17, 2020: [Indian Prime Minister Narendra Modi has stated that the deaths of troops killed in a border clash with China "will not be in vain". "I would like to assure the nation that the sacrifice of our jawans will not be in vain." Modi said, using an Indian term for soldiers. "For us, the unity and sovereignty of the country is the most important. India wants peace but it is capable to give a befitting reply if instigated."](#)
- June 18, 2020: [India is deploying fighters and warships to forward bases near Ladakh after Indian soldiers were killed.](#)
- June 19, 2020: [This article offers context on the India/China dispute over Ladakh, and calls it the most dangerous border crisis since they fought a war in 1962. Escalating troop deployments and death tolls have pushed tensions to their highest point in 50 years. Major elements are in play, such as India's claim to the birthplace of the Dalai Lama, the stability of China's western frontier via the G219 highway, and more.](#)
- June 20, 2020: [Egyptian President Sisi has stated Egypt has a legitimate right to intervene in Turkey's intervention in Libya, and has ordered the Egyptian army to prepare. He stated Egypt has a right to defend itself after receiving "direct threats" from "terrorist militias and mercenaries".](#)
- June 21, 2020: [Pakistani troops have opened fire and lobbed mortars across the border at forward posts and villages along the Line of Control in the Poonch and Kathua districts of Jammu and Kashmir, India. There have been 2,027 reported ceasefire violations this year as of June 10.](#)
- June 21, 2020: [India has changed the Rules of Engagement in the Ladakh region to allow field commanders to use firearms in 'extraordinary' circumstances along the Line of Actual Control.](#)
- June 25, 2020: [NORAD has intercepted a fifth group of Russian warplanes near Alaska.](#)
- August 6, 2020: [Russia and China are partnering to reduce their dependence on the U.S. dollar. In Q1 2020, the dollar's share of trade between them dropped to below 50% usage for the first time on record. The euro is up to 30% of usage, and national currencies are up to 24% usage.](#)

Miscellaneous/To Be Sorted

- Undated: [32 shelf-stable foods that will keep for years.](#)
- Undated: [A primer on hyperinflation and how to survive it.](#)
- Undated: [A first-hand account of living through 3000% hyperinflation a year in Brazil](#)
- Undated: [Pandemic preparedness resources for libraries](#)
- Undated: [Profit margins for various industries](#)
- June 1, 1988: [Hyperinflation lessons from South America.](#)

- March 1, 1998: [From hyper-inflation to current stabilization in Brazil.](#)
- May 1, 2007: [2007 study of the Spanish Flu on a city-by-city basis, analyzing the effects of social distancing](#)
- October 4, 2010: [How a fake monetary system snapped Brazil out of hyperinflation.](#)
- September 22, 2018: [First-hand account of Brazilian and Venezuelan hyperinflation and its lasting effects.](#)
- August 2019: [Different industries as a percentage of GDP](#)
- March 22, 2020: [ModernFarmer.com is compiling a list of CSAs in all 50 states.](#)
- April 1, 2020: [Detroit's ballroom dance community has been rocked by multiple deaths.](#)
- April 16, 2020: [Antipope has an incisive predictive rant in which he gets into a lot of interconnected nuances between societal effects, states reopening and closing down again, bankruptcies, and more.](#)
- April 18, 2020: [An ICU doctor with a PhD in public health discusses the different measures of infectiousness of disease, and what that means for opening up.](#)
- April 24, 2020: [Breakdown of the US \\$2T coronavirus stimulus package](#)
- April 25, 2020: [Scientist believes "we did it to ourselves" by creating the virus via intrusion into nature.](#)
- April 26, 2020: [A business simulator demonstrates issues with pipeline marketplaces \(oil, large scale agriculture, etc.\) by having teams work together to simulate making beer.](#)
- April 28, 2020: [Pandemics will be worse and more frequent unless we stop exploiting Earth and animals.](#)
- April 30, 2020: ["The 90% economy that lockdowns will leave behind", by the Economist.](#)
- April 30, 2020: [It is now time to live on a budget even if you're financially secure.](#)
- April 30, 2020: [An extensive interview with Mike Davis, who predicted this pandemic 15 years ago, on the factors leading up to this issue, how it could've been avoided in the U.S., and the global conditions that put us all at continued risk.](#)
- May 4, 2020: [How to reduce COVID19 transmission in the built environment.](#)
- May 11, 2020: [A brief history, and reflection on, mutual aid in the U.S. and how it might help the current crisis.](#)
- May 11, 2020: [China is decoupling from the US in terms of imports and exports, and Asian countries are generally refocusing inwardly to trade amongst themselves.](#)
- May 14, 2020: [The curious case of the people who want to "reopen" America but don't want to wear masks.](#)
- May 14, 2020: [A photo essay of how coronavirus is affecting Mumbai, India, which is currently the source of 20% of the country's infections.](#)
- May 15, 2020: [A timeline of when China notified the WHO, and what steps were taken by the US as a result.](#)
- May 19, 2020: [How people are making "quarantine bubbles" with people outside their houses.](#)
- June 20, 2020: [The arctic has recorded its highest temperatures of all time, with parts of Siberia reaching 100.4°F. Verkhoyansk, the area affected, is typically one of the coldest spots on Earth, reaching -60°F earlier this year.](#)

- June 22, 2020: [SDNY U.S. Attorney Berman was apparently fired because he didn't co-sign a letter to New York Mayor Bill de Blasio criticizing the mayor for requiring social distancing during religious gatherings but not George Floyd protests.](#)