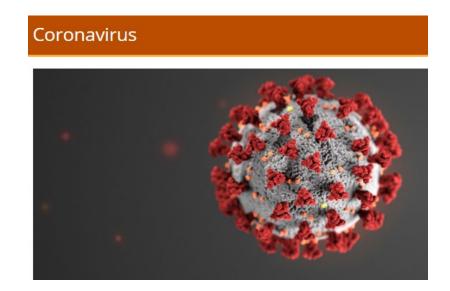
# Coronavirus Disease 2019 Statistics

# Graphical Updates on the Current Situation

3/15/2020

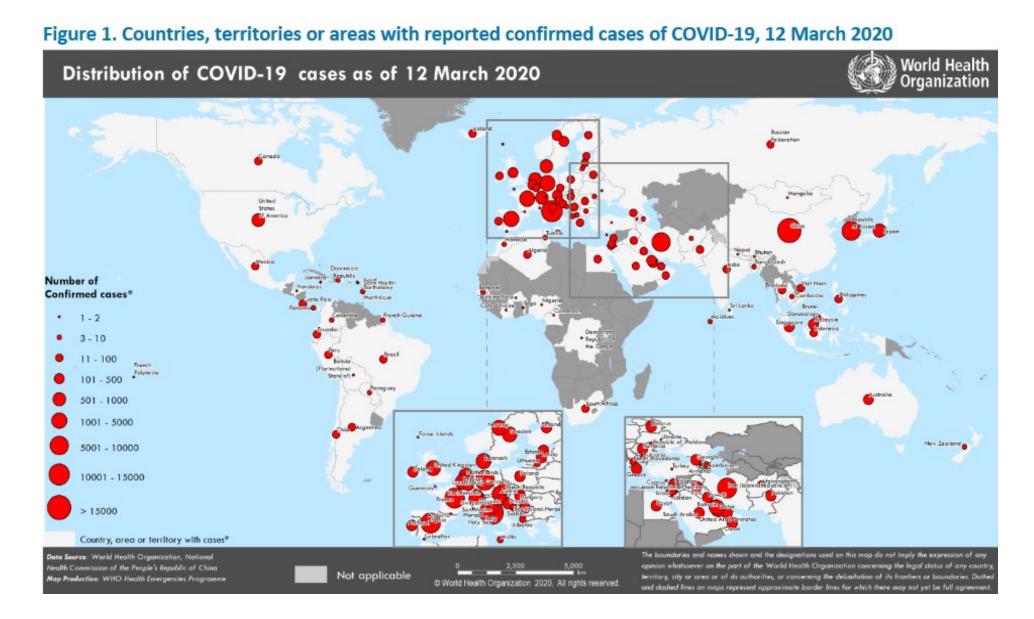




Note: This is a compilation of information from various sources. It has been posted as general information on a topic of interest. This is an emerging topic, so info and understanding are changing rapidly.



# WHO declares the coronavirus outbreak a pandemic



### COVID- 19 stats 3/15/2020

Country, Other I	Total Cases	New Cases	Total Deaths	New Deaths	Total Recovered	Active Cases	Serious, Critical	Tot Cases/ 1M pop
China	80,849	+25	3,199	+10	66,931	10,719	3,226	56.2
Italy	21,157		1,441		1,966	17,750	1,518	349.9
Iran	13,938	+1,209	724	+113	4,590	8,624		165.9
S. Korea	8,162	+76	75	+3	834	7,253	59	159.2
<u>Spain</u>	7,753	+1,362	291	+95	517	6,945	272	165.8
<u>Germany</u>	5,426	+827	11	+2	46	5,369	2	64.8
France	4,499	+30	91		12	4,396	300	68.9
USA	3,094	+151	62	+5	56	2,976	10	9.3
Switzerland	2,217	+842	14	+1	4	2,199		256.2
<u>UK</u>	1,372	+232	35	+14	18	1,319	20	20.2
Norway	1,208	+99	3		1	1,204	27	222.8
Netherlands	1,135	+176	20	+8	2	1,113	45	66.2

Total:	162,959	6,387	6,085	262	76,219	80,655	5,655	20.9

### Coronavirus [COVID-19]: the severity of diagnosed cases in China

Descriptions of 44,415 confirmed cases of COVID-19 nationwide in China. Included are confirmed cases in the early period of the outbreak of the disease up to February 11, 2020.



### 2.3% of all cases died

1,023 of the 44,415 infected people, for which the breakdown is shown on the right, died. The case fatality rate is therefore 2.3%.

### 5% Critical cases

Critical cases include patients who suffered respiratory failure, septic shock, and/or multiple organ dysfunction/failure.

#### 14% Severe cases

Severe cases include patients suffer from shortness of breath, respiratory frequency ≥ 30/minute, blood oxygen saturation ≤93%, PaO2/FiO2 ratio <300, and/or lung infiltrates >50% within 24–48 hours.

#### 81% Mild cases

Mild cases include all patients without pneumonia or cases of mild pneumonia.

#### Cases that were not identified and not diagnosed

Data source: Novel Coronavirus Pneumonia Emergency Response Epidemiology Team. Vitor surveillances: the epidemiological characteristics of an outbreak of 2019 novel coronavirus diseases (COVID-19)–China, 2020. China CDC Weekly. Case counts: 36,160 mild cases; 6,168 severe cases; 2,087 critical cases. OurWorldinData.org – Research and data to make progress against the world's largest problems. Licensed under CC-BY by Hannah Ritchie and Max Roser

### 3/15/2020

#### COVID-19 CORONAVIRUS OUTBREAK

Last updated: March 15, 2020, 16:01 GMT

Cases - Deaths - Countries - Death Rate - Incubation - Age - Symptoms - Opinions - News

Coronavirus Cases:



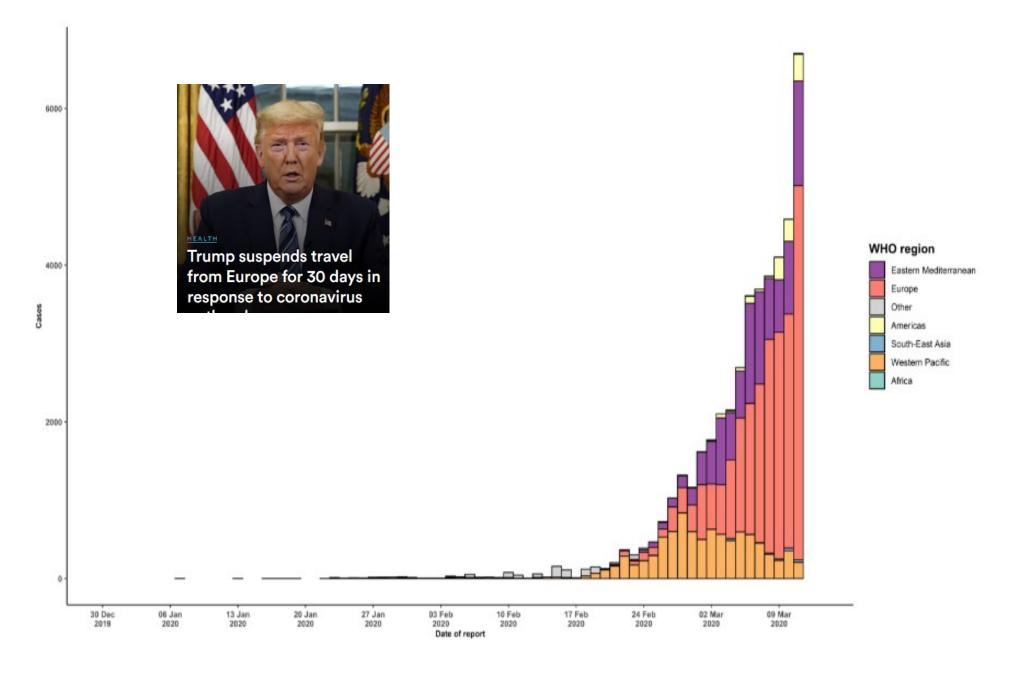
view by country

Deaths: 6,085

Recovered:

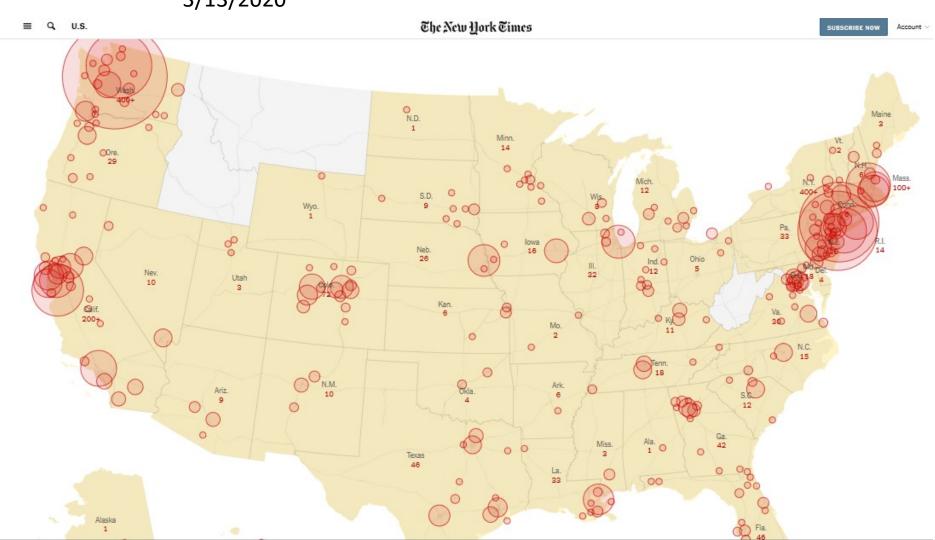
76,219

Figure 2. Epidemic curve of confirmed COVID-19 cases reported outside of China (*n*= 44 067), by date of report and WHO region through 12 March 2020



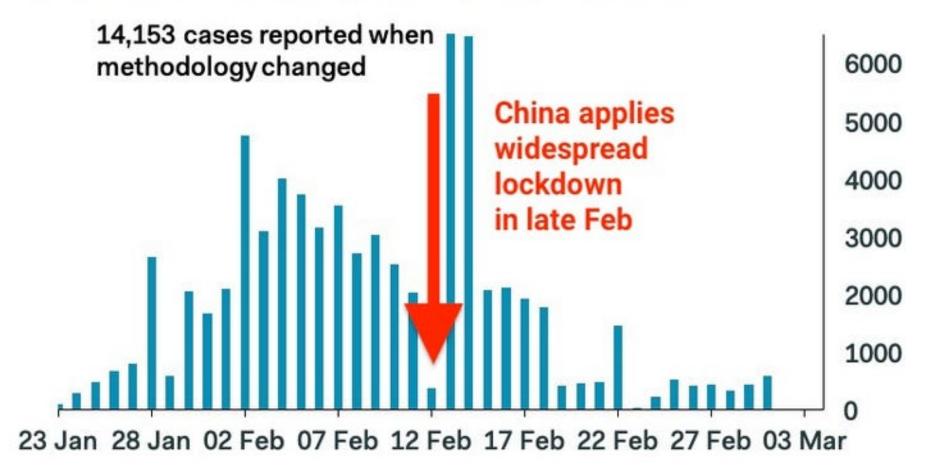
### Known Cases in the U.S.

at least 1,875 people in 47 states and Washington, D.C. have tested positive for coronavirus



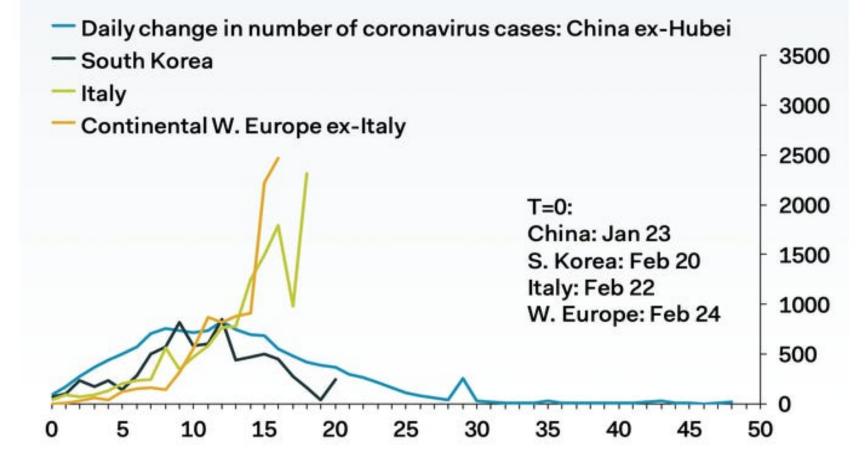
3/13/2020

Number of new coronavirus cases, MAINLAND CHINA



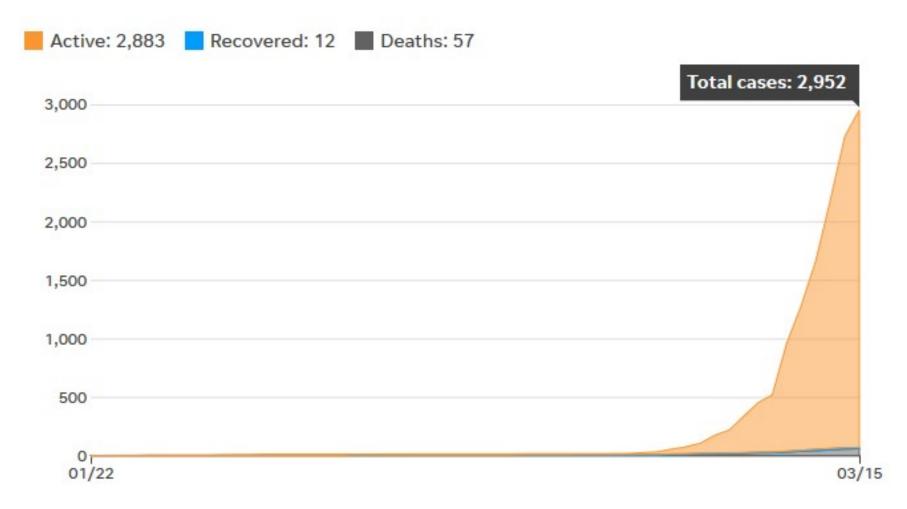
Incidences can be brought under control, once effective measures are in place .

### WITHOUT LOCKDOWNS, CASES SPREAD RAPIDLY



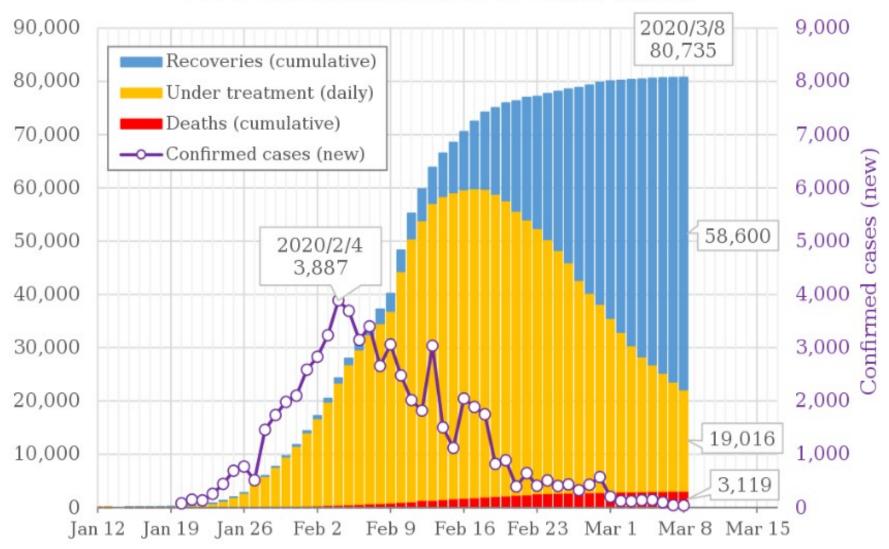
New infections are doubling every 4 days in most of the world. It's very important to follow advise from authorities.

### Cases of coronavirus in the US



Last updated: 3/15/20 at 4:13 AM SOURCE Johns Hopkins University; WHO; CDC; USA TODAY

2020 coronavirus cases in China (NHC)



### Buy some time for a 20201 vaccine ٠ **Flattening the curve** Delay outbreak peak Daily number of cases Reduction in peak of outbreak **Cases without** protective measures Health care system capacity Cases with protective measures

Following recommendations will:

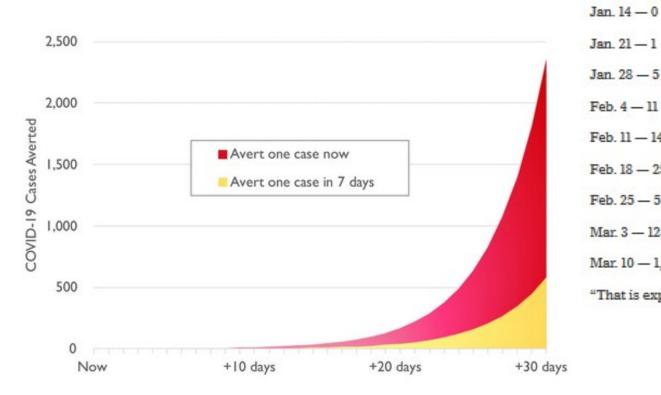
- Reduce illnesses
- Reduce deaths
- Keep our medical services more available for those in need

Time since first case



### The Exponential Power of Now

The explosive spread of coronavirus can be turned to our advantage, two infectious disease experts argue: "But only if we intervene early. That means now."



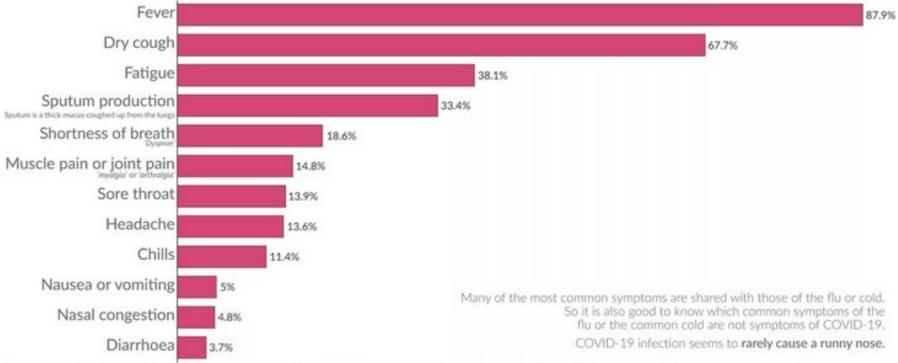
cases in the U.S. by date:

Jan. 21 — 1 Jan. 28 — 5 Feb. 4 — 11 Feb. 11 — 14 Feb. 18 — 25 Feb. 25 — 59 Mar. 3 — 125 Mar. 10 — 1,004

"That is exponential growth," Dr. Nick Jewell said.

### The symptoms of coronavirus disease [COVID-19] Our World in Data

The most common signs and symptoms of 55,924 laboratory confirmed cased of COVID-19. Reported from China in the period up to February 22, 2020



Data source: World Health Organization (2020). Report of the WHO-China Joint Mission on Coronavirus Disease 2019 (COVID-19). Symptoms in fewer than 1% are not shown. OurWorldinData.org – Research and data to make progress against the world's largest problems. Licensed under CC-BY by the authors.

Max Roser and Hannah Ritchie/Our World in Data

## **About COVID-19**

This is a new virus, so our bodies have not built up an immunity to it.

COVID-19 seems to result in a 5+x more likelihood of death with older people than a typical case of our historical seasonal flu.

There is currently no vaccine available for COVID-19

In serious cases, COVID-19 may lead to developed acute respiratory distress syndrome (ARDS), pneumonia or death.

Persons with underlying health conditions, may have 5-18% higher risk of death if COVID-19 is contracted. The older we are, the higher chances of death with COVID-19.

Some sources indicate high amounts of virus are shed into the environment, especially early on, such as during the first 7 days of having symptoms.

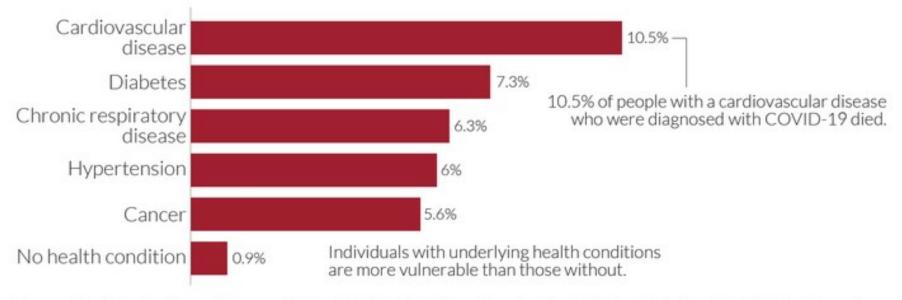
A person can sometimes have the virus and spread virus before realizing they are ill.

Side Note: The <u>CDC estimates</u> that, on average, about 8% of the U.S. population gets sick with the flu each season. In 2018, the CDC estimated, there were 80,000 flu deaths.

## Coronavirus: early-stage case fatality rates by underlying health condition in China



Case fatality rate (CFR) is calculated by dividing the total number of deaths from a disease by the number of confirmed cases. Data is based on early-stage analysis of the COVID-19 outbreak in China in the period up to February 11, 2020.



Data source: Novel Coronavirus Pneumonia Emergency Response Epidemiology Team. Vital surveillances: the epidemiological characteristics of an outbreak of 2019 novel coronavirus diseases (COVID-19)—China, 2020, China CDC Weekly.

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### What type of underlying health conditions are a factor?

China CDC's analysis of 44,672 patients found that the fatality rate in patients who reported no other health conditions was 0.9%.

The mortality rates were much higher with these conditions:

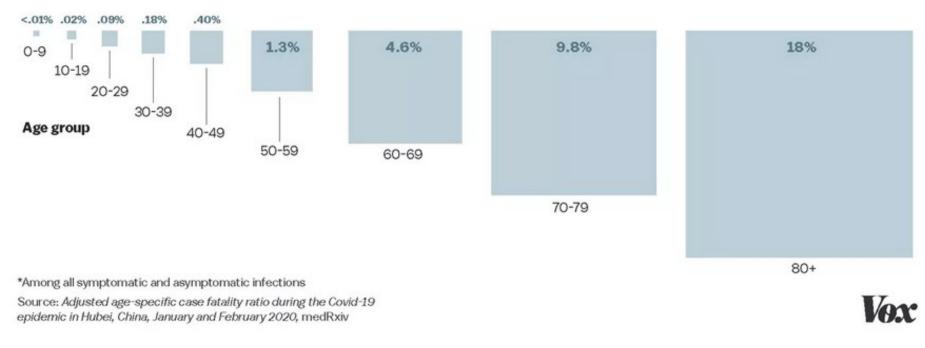
- 10.5% for those with cardiovascular disease,
- 7.3% for those with diabetes,
- 6.3% for people with chronic respiratory diseases (such as COPD), 6.0% for people with hypertension, and
- 5.6% for those with cancer.
- 16% for patients on dialysis had fatality rate of 16% (from kidney failure, instead of pneumonia) this was from a smaller study.

Having multiple underlying health issues (Co-morbidities)raise the risk of dying from Covid-19.

About 60% of U.S. adults have at least one underlying health condition, (Tom Frieden, former director of the U.S. Centers for Disease Control and Prevention)

### Covid-19's case fatality rate increases with age, according to China's data

Estimated case fatality risk in Hubei, China, January-February 2020



Christina Animashaun/Vox

**Case fatality ratio\*** 

### As we age, our immune systems become less robust and effective.

### Case fatality rates: COVID-19 vs. US Seasonal Flu

Case fatality rate (CFR) is specific to a location and time. It is calculated by dividing the total number of deaths from a disease by the number of confirmed cases.

#### 6% 4 to 7-times higher than the flu Seasonal Flu COVID-19 Case fatality rates for the influenza season 2018-19 in the USA. Case fatality rates for the COVID-19 outbreak in China. for the period up to February 11, 2020. Symptomatic cases are calculated based on models which aim to account for underreporting - figures based on medical visits are therefore also shown in square brackets, which may be a closer comparison to COVID-19 case fatality rates. 2.3% 12 to 24-times higher than the flu 0.8% [illnesses] 1.4% [medical visits] 1.3% 9 to 21-times higher than the flu 0.3% 0.06% 6 to 16-times 0.1% 0.1% higher than the flu 0.02% 0.004% [0.14%] 14 to 25-times [0.2%] [0.06%] higher than the flu [0.007%] 18-49 years 50-64 years 65+ years 20-49 years 50-59 years All ages 0-17 years All ages 0-19 years 60+ years

Data: Novel Coronavirus Pneumonia Emergency Response Epidemiology Team. Vitol surveillances: the epidemiological characteristics of an outbreak of 2019 novel coronavirus diseases (COVID-19)-China, 2020. China CDC Weekly, US Influenza data is sourced from the US Centers for Disease Control and Prevention (CDC).

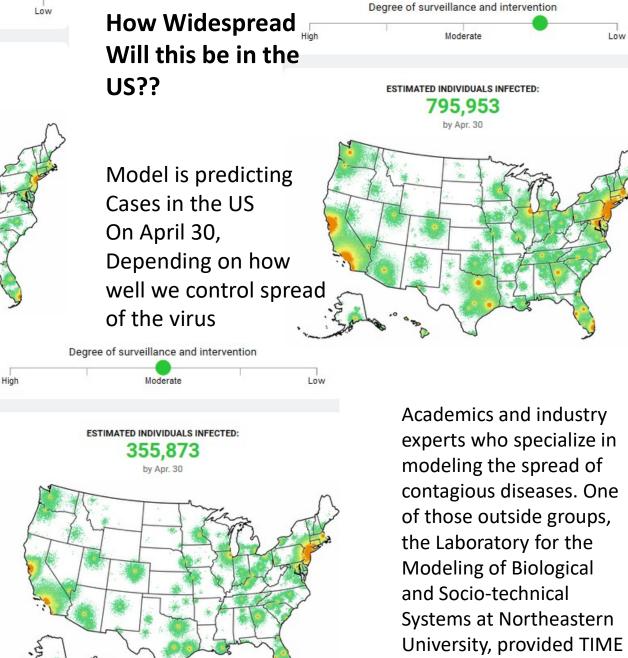
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Our World in Data

#### Max Roser and Hannah Ritchie/Our World in Data





# Trump declares a national emergency

3/13/2020

Americans will soon have a screening website to determine if you should be tested (national capacity 20,000/day)

There will be drive through testing a some Walmart and Target parking lots in every city across the country. People will have access to results on-line next day.





Websites of interest:



Most reliable source for current information that has been vetted

cdc.gov



https://www.who.int/

Note: It's possible that this slide deck could contain mis-information and/or technical errors, or mis-statements. If so, this is not intentional. JE