

Menu

Search

**Bloomberg**

Welcome, sieglinde.ma...

Sign Out

Subscribe

# More Than 458 Million Shots Given: Covid-19 Tracker

In the U.S., 127 million doses have been administered; rollout goes global

Updated: 22. März 2021, 22:02 MEZ

**Vaccine Tracker**

Global ↗ U.S. ↗ U.S. Vaccine Demographics ↗ FAQ ↗ Covid-19 Tracker ↗

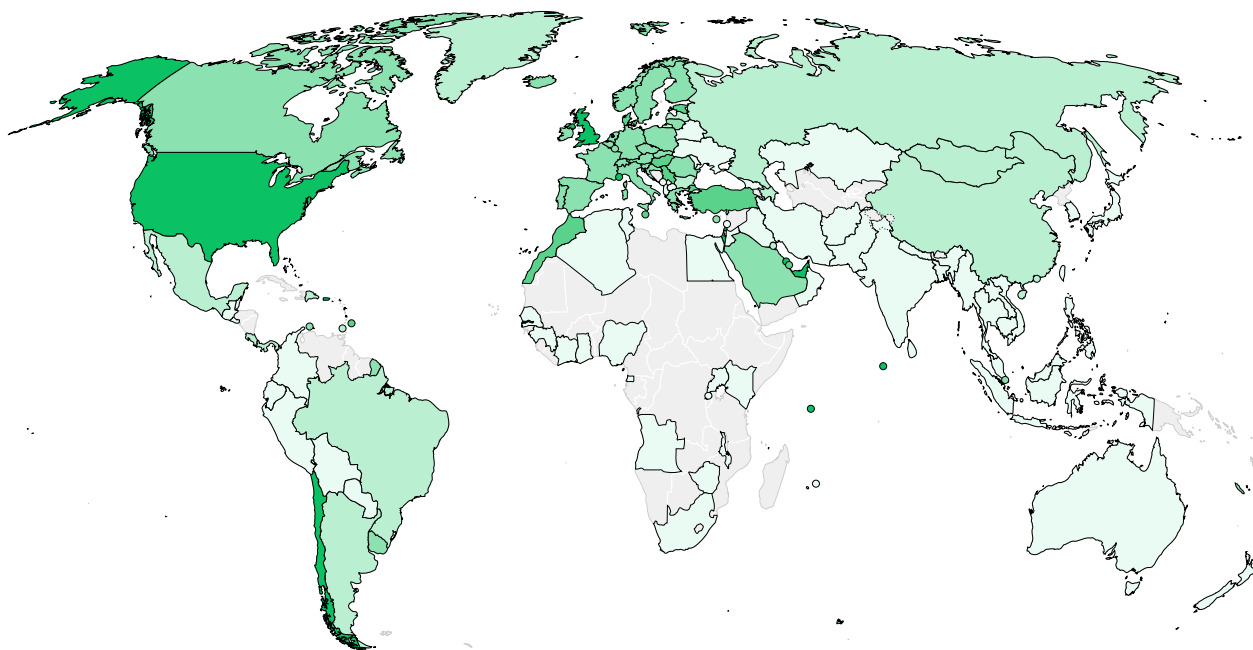
The biggest vaccination campaign in history is underway. More than **458 million doses** have been administered across 134 countries, according to data collected by Bloomberg. The latest rate was roughly **11.3 million doses a day**.

In the U.S., more Americans have received at least one dose than have tested positive for the virus since the pandemic began. So far, **127 million doses** have been given. In the last week, an average of **2.49 million doses per day** were administered.

### World Map of Vaccinations

More than 458 million doses have been administered—enough to vaccinate 3% of the global population

no data 1 2 5 10% of population covered



Note: "Population covered" accounts for the number of doses required for each type of vaccine administered. Data gathered from government websites, press conferences, public statements and Bloomberg interviews.

**New Calculation for 'People Covered'**

We've changed some of our key metrics to account for new single-dose vaccines. We stopped using per capita "doses administered" figures. Instead we calculate the "population covered" by those shots, taking into account the doses required (one or two) for each brand of vaccine.

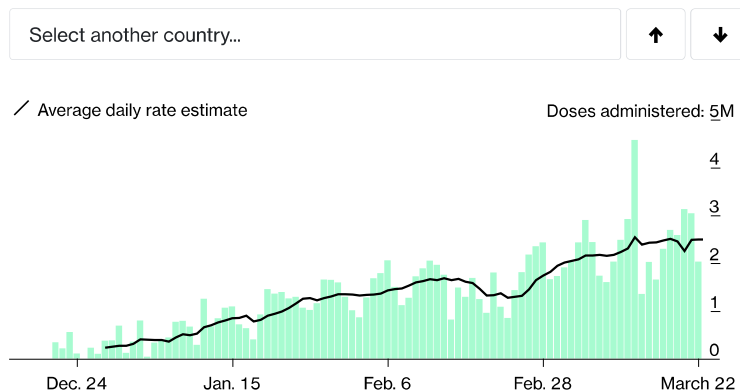
**When will life return to normal?**

While the best vaccines are thought to be 95% effective, it takes a coordinated campaign to stop a pandemic. Anthony Fauci, the top infectious-disease official in the U.S., has said that vaccinating 70% to 85% of the U.S. population would enable a return to normalcy.

On a global scale, that's a daunting level of vaccination. At the current pace of 11.3 million a day, it would take years to achieve a significant level of global immunity. The rate, however, is steadily increasing, and new vaccines by additional manufacturers are coming to market.

**The Path to Immunity Around the World**

In **the U.S.**, the latest vaccination rate is **2,489,697 doses** per day, on average. At this pace, it will take another **5 months** to cover **75%** of the population.



Note: Immunity calculations take into account the number of doses required for each type of vaccine administered. The "daily rate estimate" is a seven-day trailing average; interpolation is used for countries with infrequent updates. Data are from Bloomberg's Covid-19 Vaccine Tracker.

*Did we miss a country? Drop us a link*

**Are we bending the curve yet?**

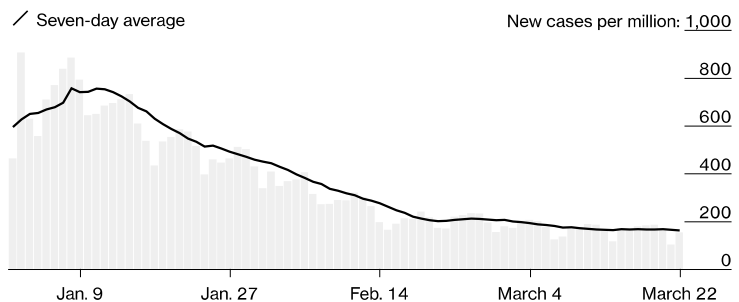
Israel was first to show that vaccinations were having a nationwide effect. The country has led the world in vaccinations, and by February more than 84% of people ages 70 and older had received two doses. Severe covid cases and deaths declined rapidly. A separate analysis in the U.K. showed similar results.

It's now a life-and-death contest between vaccine and virus. New strains threaten renewed outbreaks. In the early stages of a campaign, the effect of vaccinations are often outweighed by other factors of transmissibility: virus mutations, seasonality, effectiveness of mask use and social distancing. In time, higher vaccination rates should limit the Covid-19 burden around the world.

**Vaccinations vs. Cases**

Covid rates have flattened or declined in all **four countries** where enough vaccines have been given to cover at least **25%** of the population.





Note: "People covered" accounts for the number of doses required for each type of vaccine administered. Vaccine data from Bloomberg's Covid-19 Tracker. Cases data: Johns Hopkins University.

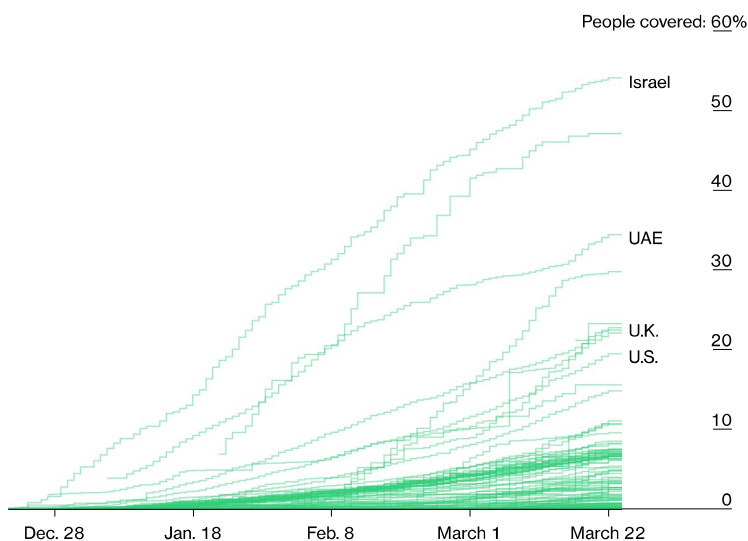
Since the start of the global vaccination campaign, countries have experienced unequal access to vaccines and varying degrees of efficiency in getting shots into people's arms. Before March, few African nations had received a single shipment of shots. In the U.S., 38.1 doses have been administered for every 100 people.

Delivering billions of vaccines to stop the spread of Covid-19 worldwide will be one of the greatest logistical challenges ever undertaken.

**Race to End the Pandemic**

**Israel** leads all countries, with enough vaccinations to cover **53.9%** of its population

Select a country... ↑ ↓



Note: "People covered" accounts for the number of doses required for each type of vaccine administered. Data from Bloomberg's Covid-19 Vaccine Tracker

**Global Vaccination Campaign**



Country	Doses administered ▼	Enough for % of people	% of population		Daily rate of doses administered
			given 1+ dose	fully vaccinated	
Global Total	458,546,414	-	-	-	11,267,537
U.S.	126,509,736	19.4	24.9	13.5	2,489,697
China	74,950,000	2.7	-	-	1,661,667
EU	58,407,252	6.6	8.9	3.2	1,141,362
India	47,207,134	1.7	2.9	0.6	2,205,068
U.K. +	30,279,360	22.7	41.9	3.4	602,266
Brazil	16,298,118	3.9	5.8	2.0	394,575
Turkey	13,489,271	8.1	9.7	6.5	283,233
Germany	10,868,372	6.5	9.1	0.4	209,895
Russia	10,600,000	3.6	4.3	2.9	300,000

Country	Doses administered ▼	Enough for % of people	% of population		Daily rate of doses administered
			given 1+ dose	fully vaccinated	
Israel	9,760,837	53.9	57.3	50.6	46,250
France	8,629,076	6.7	9.6	3.7	181,354
Chile	8,550,912	22.4	29.5	15.2	261,678
Indonesia	8,226,632	1.5	2.1	0.9	355,283
Italy	7,894,659	6.5	8.9	4.2	160,695
UAE	7,374,725	34.3	-	-	113,692
Morocco	6,781,503	9.5	12.0	7.1	112,674
Spain	6,321,908	6.8	9.1	4.5	96,716
Mexico	5,612,291	2.2	3.8	0.6	181,766
Poland	5,026,182	6.6	8.5	4.7	70,771

Show more ↕

Note: Population coverage accounts for the number of doses required for each vaccine administered. The daily rate is a 7-day average; for countries that don't report daily, the last-known average rate is used.

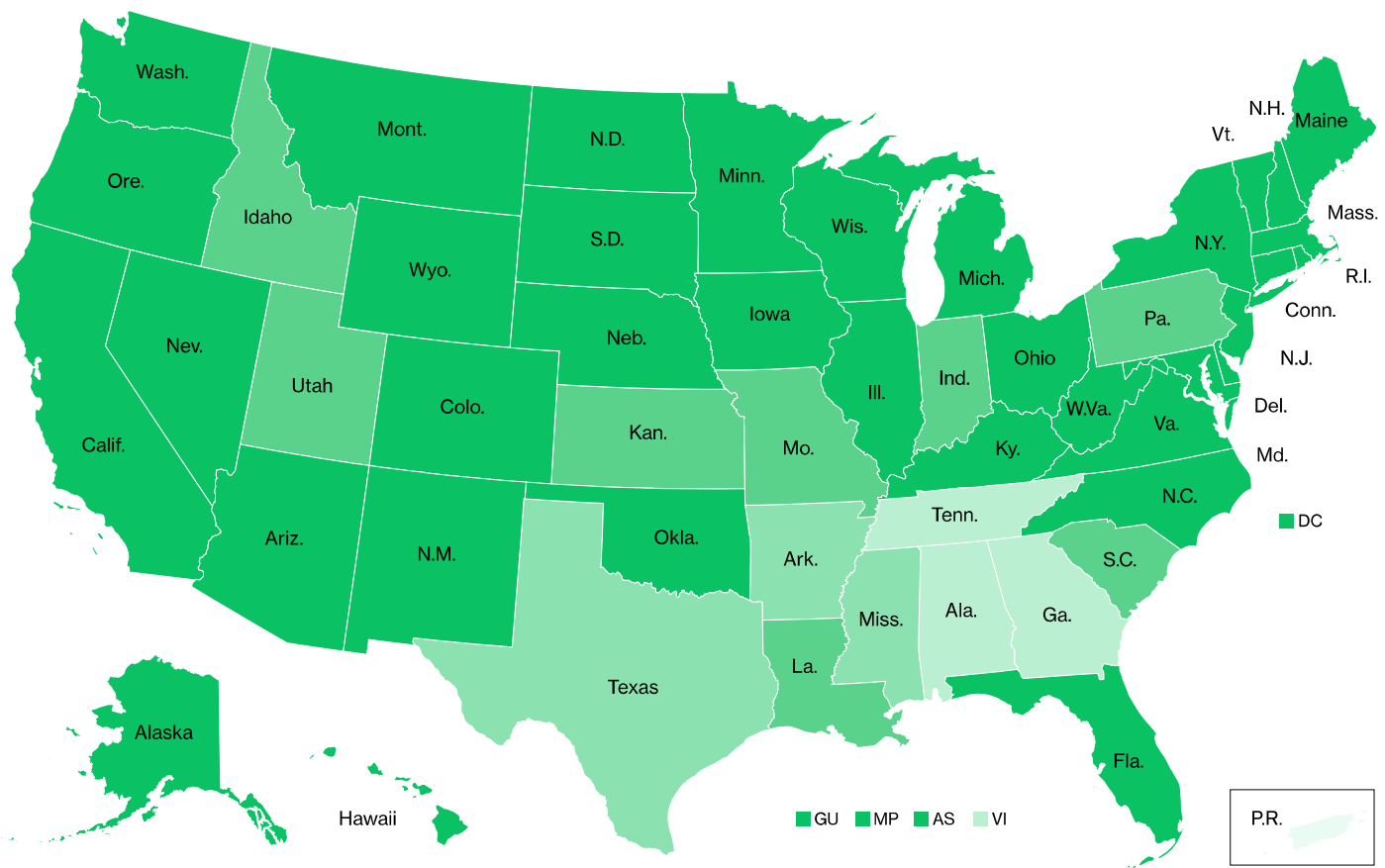
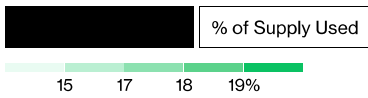
### U.S. Vaccinations: State by State

The U.S. leads the world in total vaccines administered, and more supply is on the way. Drugmakers have promised to deliver enough shots to fully vaccinate 130 million Americans by the end of March and 300 million people by the end of May. That's more than enough for every adult, and clinical studies in children are underway.

After focusing first on hospitals and other institutional health-care settings, states have opened access to increasingly larger groups of people: essential workers, teachers, people over 65 and younger adults with pre-existing health conditions. As supply has increased, some states are making mass vaccination centers out of sport stadiums, theme parks, convention halls and race tracks.

#### Vaccines Across America

Across the U.S., enough doses have been administered to cover 19.4% of the population, and 81% of the delivered shots have been used



Note: "Population covered" accounts for the number of doses required for each type of vaccine administered. Data added after Feb. 20 is from the CDC and includes doses administered by federal entities in state totals. Prior data from the Bloomberg Covid-19 Tracker. It can take several days for counts to be reported through the CDC database.

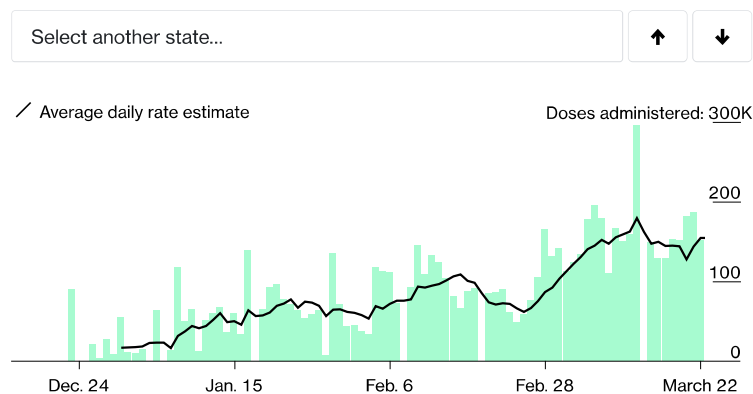
Distribution in the U.S. is directed by the federal government. Pfizer and BioNTech's vaccine, as well as Moderna's shot both require two doses taken several weeks apart. J&J's inoculation requires just a single dose.

The introduction of J&J's one-shot option in March is speeding up vaccinations and making it easier to vaccinate hard-to-reach populations. So far, 82.8 million Americans have received at least one dose of a vaccine, or roughly a quarter of the adult population. At least 44.9 million people have completed a vaccination regimen.

*Tips and Feedback: Help us improve the Covid-19 Vaccine Tracker*

### The Path to Immunity in the U.S.

In **New York**, the latest vaccination rate is **154,212 doses** per day, on average. At this pace, it will take another **4 months** to cover **75%** of the population.



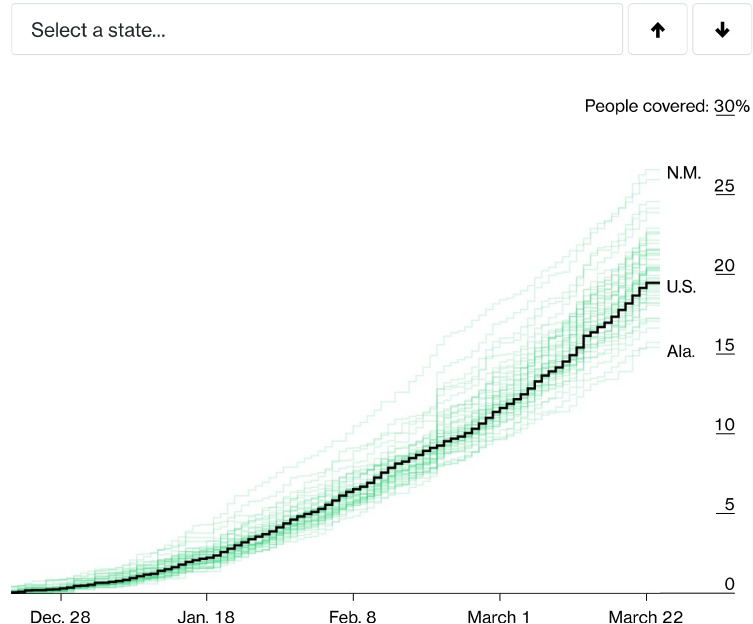
Note: Vaccinating roughly 70% to 85% of a country's population would enable a return to normalcy, according to top U.S. infectious disease doctor Anthony Fauci. Immunity calculations take into account the two doses required for the Pfizer and Moderna vaccines. Data are from Bloomberg's Covid-19 Vaccine Tracker.

It takes about two weeks after a final vaccine dose for immunity to fully develop. After that, a person can safely meet indoors with other vaccinated people without wearing masks, according to CDC guidance issued in March. Grandparents can spend time with their grandchildren again.

Even for people fully vaccinated, some restrictions remain in place while the virus still circulates across the country. The CDC advises against travel and recommends wearing masks and social distancing while in public.

### How State Vaccinations Stack Up

New Mexico leads all states, with enough vaccinations to cover 26.5% of its populations



Note: Two doses are needed for full protection with the Pfizer and Moderna vaccines, while the J&J shot requires a single dose. Data from Bloomberg's Covid-19 Vaccine Tracker

### U.S. Vaccination Campaign



Jurisdiction	Doses administered ▼	Enough for % of people	% of population		Daily rate of doses administered	Supply used
			given 1+ dose	fully vaccinated		
U.S. Totals	126,509,736	19.4	24.9	13.5	2,489,697	80.7%
California	15,050,673	19.3	25.5	12.9	392,009	79.7%
Texas	9,734,465	17.2	22.0	11.0	169,542	77.2%
Florida	8,191,294	19.4	23.8	13.3	153,563	76.6%
New York +	7,522,949	19.7	26.1	12.7	154,212	78.5%
Federal Entities* +	6,128,152	-	-	-	92,696	80.9%
Illinois	5,051,382	20.3	26.1	14.2	107,637	85.5%
Pennsylvania	4,748,613	18.9	25.1	12.8	66,451	75.9%
Ohio	4,447,020	19.5	24.5	14.1	89,672	80.3%
North Carolina	4,064,069	19.9	25.3	13.9	83,368	82.4%
Michigan	3,747,788	19.0	24.5	13.9	82,529	82.5%
New Jersey	3,635,504	20.9	28.3	14.7	74,649	87.7%
Virginia	3,360,330	20.2	25.8	14.3	58,341	88.0%
Georgia	3,280,952	15.7	19.4	11.0	70,124	72.1%
Washington	3,045,597	20.4	25.8	14.6	59,936	84.9%
Massachusetts	3,032,996	22.5	29.1	15.5	58,904	91.3%
Arizona	2,942,907	20.4	25.2	14.4	48,184	85.0%
Wisconsin	2,462,081	21.5	27.0	15.6	50,598	94.2%
Indiana	2,437,519	18.4	22.1	14.4	39,601	82.2%
Minnesota	2,340,900	21.2	27.2	15.4	43,360	91.7%

Show more ↕

Note: The category entry for Federal Entities isn't counted in the country total because those vaccinations are already included in relevant state totals. The "Unassigned" entry refers to vaccinations from CDC's U.S. totals that the agency didn't assign to a specific state or territory. "Doses administered" figures include all vaccinations within a state, regardless of a person's residency, while population coverage data only accounts for residency. "Shots used" shows the proportion of administered vaccines compared with the total doses received by a state.

#### Frequently Asked Questions

[Curious about how we collect our data? Wondering why we made certain decisions for the tracker? We have answers ...](#)

## Vaccine Timeline

Bloomberg is tracking the development of nine of the globe's most promising vaccines. A total of seven vaccines are now available for public use, in limited quantities, in at least 134 countries.

Nations have poured billions of dollars into developing new vaccine technologies, testing them in thousands of volunteers, scaling up manufacturing, and then bringing them to market in record time.

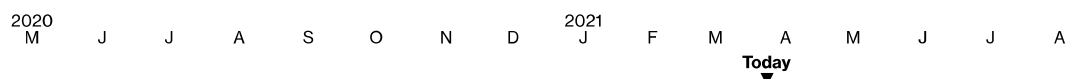
None of these shots, on its own, is enough to inoculate a global population of some 7.8 billion people. But together they represent humanity's best chance of ending a scourge that has claimed more than [2.6 million lives](#) and triggered global economic calamity.

[Sign up for our daily coronavirus newsletter](#)

#### When to Expect the Next Vaccine

Progress: ■ Trial ■ Awaiting approval ■ Available to public

Trial size      Doses required      Storage temperature      Efficacy



### Pfizer/BioNTech

44K 2 -70°C 95%

Pfizer was the first company to report positive phase 3 clinical data. It plans to produce 50M doses in 2020 and 1.3B in 2021.

### Moderna

30K 2 2-8°C 95%

Moderna and Pfizer both use a new vaccine approach involving messenger RNA. Moderna expects to have 20M doses for the U.S. in December and 100M globally in Q1.

### AstraZeneca/Oxford

65K 2 2-8°C 70%

AstraZeneca struck deals for 3 billion doses even before any late-stage study results. That's more than twice as many as any other candidate. Initial clinical results were mixed.

### Novavax

45K 2 2-8°C 89%

This small biotech firm has never brought a product to market. It received more than \$1.6 billion from the U.S. and \$399 million from the Coalition for Epidemic Preparedness. The stock rose 3,000% in nine months.

### Johnson & Johnson

70K 1 2-8°C 66%

Of the leading candidates, this is the easiest to distribute, requiring just one dose and standard refrigeration. To hedge its bets, J&J announced a separate trial with two doses in November.

*Russia and China took the unusual step of allowing vaccine distribution before conducting large-scale clinical trials.*

### Sinovac Biotech

26K 2 2-8°C 50%

Sinovac's vaccine triggers an immune response using the Covid-19 virus itself, after it has been chemically inactivated.

### Gamaleya

40K 2 -18°C 92%

A variation of the Russian vaccine, known as Sputnik V, can be stored using standard refrigeration temperatures of 2-8°C. It's currently available in limited quantities.

### CanSino Biologics

40K 1 2-8°C 66%

CanSino's shot was approved for the Chinese military even before late-stage tests began. It uses a harmless cold virus to deliver its genetic payload.

### Sinopharm

50K 2 2-8°C 79%

Sinopharm administered hundreds of thousands of doses before its vaccine was fully tested.



Note: Data are based on interviews, company disclosures, news reports and government data. In many countries, vaccines are first coming to market under emergency measures that let them bypass normal regulatory requirements. Because millions of people will get the vaccines under these rules, they are displayed as "available to the public." Bloomberg will note when the regulatory status changes in the future.

#### Covid-19 Deals Tracker

**Doses Under Contract:** Our vaccine deals tracker is no longer being updated as

of March 1. The page is still available through this link, and has counted [137 contracts between drugmakers and countries accounting for 9.60 billion doses.](#)

*[Tips and Feedback: Help us improve the Covid-19 Vaccine Tracker](#)*

### **More Coverage From Bloomberg**

[Sign up for our daily coronavirus newsletter](#)

[The Covid Resilience Ranking](#)

[Stories about the pandemic from Bloomberg News](#)

[Tracking the U.S. Recession and Recovery](#)

[How the U.K. Will Distribute Pfizer, BioNTech Doses](#)

---

By: [Tom Randall](#), [Cedric Sam](#), [Andre Tartar](#), [Paul Murray](#) and [Christopher Cannon](#)

Editors: [Drew Armstrong](#) and [Yue Qiu](#)

With reporting globally from: [Reema Al Othman](#), [Adrienne Appel](#), [Justin Bachman](#), [David R. Baker](#), [Tripp Baltz](#), [Dina Bass](#), [Helena Bedwell](#), [Marco Bertacche](#), [Naubet Bisenov](#), [Andrew Blackman](#), [Stephanie Bodoni](#), [John Boudreau](#), [Jan Bratanic](#), [Joe Carroll](#), [Elaine Chen](#), [Myungshin Cho](#), [Kateryna Choursina](#), [Torrey Clark](#), [Keshia Clukey](#), [Donna Cohen](#), [Michael Cohen](#), [Michelle Fay Cortez](#), [Emma Court](#), [Derek Decloet](#), [Vincent Del Giudice](#), [Dara Doyle](#), [Elliott Dube](#), [Alex Ebert](#), [Brian Eckhouse](#), [Aaron Eglitis](#), [Farah Elbahrawy](#), [Zainab Fattah](#), [Peter Flanagan](#), [Simone Foxman](#), [Valentina Fuentes](#), [Akayla Gardner](#), [Kelly Gilblom](#), [Patrick Gillespie](#), [Henry Goldman](#), [Prashant Gopal](#), [Brenna Goth](#), [Jeff Green](#), [Rebecca Greenfield](#), [James Greiff](#), [Corinne Gretler](#), [Boris Groendahl](#), [Veronika Gulyas](#), [Michael Gunn](#), [Philip Heijmans](#), [Michael Hirtzer](#), [Katarina Hoije](#), [Jordyn Holman](#), [Jinshan Hong](#), [Grace Huang](#), [Andrea Jaramillo](#), [Edward Johnson](#), [Fawn Johnson](#), [Stephen Joyce](#), [Souhail Karam](#), [Jennifer Kay](#), [Dimitra Kessenides](#), [Aaron Kessler](#), [Janice Kew](#), [Olga Kharif](#), [Stepan Kravchenko](#), [Jasmina Kuzmanovic](#), [Khine Lin Kyaw](#), [Angelica Lavito](#), [Jacquie Lee](#), [Julia Leite](#), [Jonathan Levin](#), [Ivan Levingston](#), [Joao Lima](#), [Linly Lin](#), [Li Liu](#), [Natalie Lung](#), [Dong Lyu](#), [Fiona MacDonald](#), [Claudia Maedler](#), [Mai Ngoc Châu](#), [Sydney Maki](#), [David Malingha](#), [Faseeh Mangi](#), [John Martens](#), [Michael McDonald](#), [Alexander McIntyre](#), [Georgina McKay](#), [Flynn McRoberts](#), [Stephen Merelman](#), [Carolina Millan](#), [Danielle Moran](#), [Scott Moritz](#), [Polly Mosendz](#), [Adveith Nair](#), [Muneeza Naqvi](#), [Keith Naughton](#), [Andrea Navarro](#), [Ray Ndlovu](#), [Margaret Newkirk](#), [Sotiris Nikas](#), [Spencer Norris](#), [Helen Nyambura](#), [Alisa Odenheimer](#), [Slav Okov](#), [Eric Ombok](#), [Inci Ozbek](#), [Ken Parks](#), [Marie Patino](#), [Charles Penty](#), [Kati Pohjanpalo](#), [Anne Pollak](#), [Ruth Pollard](#), [Lenka Ponikelska](#), [Ellen Proper](#), [Nic Querolo](#), [John Quigley](#), [Dale Quinn](#), [Sandrine Rastello](#), [Alastair Reed](#), [Paul Richardson](#), [Nick Rigillo](#), [Suzi Ring](#), [Niclas Rolander](#), [Flavia Rotondi](#), [Jake Rudnitsky](#), [Rudy Ruitenberg](#), [Fiona Rutherford](#), [Catarina Saraiva](#), [Michael Sasso](#), [Misha Savic](#), [Mary Schlangenstein](#), [Milda Seputyte](#), [Antony Sguazzin](#), [Jill Shah](#), [Arsalan Shahla](#), [Stacie Sherman](#), [Ragnhildur Sigurdardottir](#), [Zoltán Simon](#), [Shruti Singh](#), [Brad Skillman](#), [Barbara Sladkowska](#), [Paul Stinson](#), [Kyle Stock](#), [Brian Sullivan](#), [Jeff Sutherland](#), [Randy Thanthong-Knight](#), [Eduardo Thomson](#), [Radoslav Tomek](#), [John Tozzi](#), [Fernando Travaglini](#), [Paul Tugwell](#), [Derek Wallbank](#), [Kenneth Wong](#), [Chris Yaszko](#), [Erica Yokoyama](#) and [Elise Young](#)

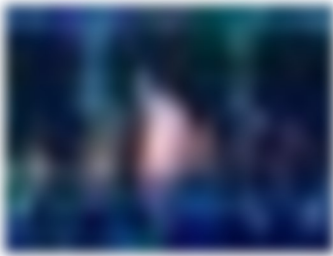
With the assistance of: [Mira Rojanasakul](#)

Additional thanks to the Covid Tracking Project's staff and volunteers for sharing knowledge and advice.

Our data is available for download on [GitHub](#); see our [Terms of Use](#) in the readme document.

Share this article:





**Bad Bunny Reclaims His Crown As the World's Biggest Pop Star**

Jan. 12, 2021



**New Data Expose Precisely How White and Male Some U.S. Companies Are**

March 9, 2021



**Not One U.S. State Has Vaccinated 20% of Its Black Population: Covid-19 Tracker**

Feb. 17, 2021



**The Four New Global Capitals of Music**

Feb. 9, 2021



**La Nina Roars, Unleashing Fire, Drought and Floods Worldwide**

Jan. 23, 2021



**Inside Boston's Major League Vaccine Rollout**

March 6, 2021



**Pessimism and Distrust Could Sway Elections Around the World**

Jan. 21, 2021



**How an Online Scandal Put Jack Ma's Media World in the Spotlight**

Feb. 9, 2021