



# United States COVID-19 Cases and Deaths by State over Time

Case Surveillance

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CDC reports aggregate counts of COVID-19 cases and death numbers daily online. Data on the COVID-19 website and CDC's COVID Data Tracker are based on these most recent numbers reported by states, territories, and other jurisdictions. This data set of "United States COVID-19 Cases and Deaths by State over Time" combines this information. However, data are dependent on jurisdictions' timely and accurate reporting.

Separately, CDC also regularly reports provisional death certificate data from the National Vital Statistics System (NVSS) on data.cdc.gov. Details are described on the [NCHS website](#). Reporting the number of deaths by using death certificates ultimately provides more complete information but is a longer process; therefore, these numbers will be less than the death counts on the COVID-19 website.

## Accuracy of Data

CDC tracks COVID-19 illnesses, hospitalizations, and deaths to track trends, detect outbreaks, and monitor whether public health measures are working. However, counting exact numbers of COVID-19 cases is not possible. COVID-19 can cause mild illness, symptoms might not appear immediately, there are delays in reporting and testing, not everyone who is

infected gets tested or seeks medical care, and there are differences in how completely states and territories report their cases.

COVID-19 is one of about [120 diseases or conditions](#) health departments voluntarily report to CDC. State, local, and territorial public health departments verify and report cases to CDC. When there are differences between numbers of cases reported by CDC versus by health departments, data reported by health departments should be considered the most up to date. Health departments may update case data over time when they receive more complete and accurate information. The number of new cases reported each day fluctuates. There is generally less reporting on the weekends and holidays.

CDC reports death data on three other sections of the website: [U.S. Cases & Deaths](#), [COVID Data Tracker](#), and [NCHS Provisional Death Counts](#). The U.S. Cases and Deaths webpages and COVID Data Tracker get their information from the same source (total case counts); however, NCHS Death Counts are based on death certificates that use information reported by physicians, medical examiners, or coroners in the cause-of-death section of each certificate. Data from each of these pages are considered provisional (not complete and pending verification) and are therefore subject to change. Counts from previous weeks are continually revised as more records are received and processed. Because not all jurisdictions report counts daily, counts may increase at different intervals.

### **Confirmed & Probable Counts**

As of April 14, 2020, CDC case counts and death counts include both confirmed and probable cases and deaths. This change was made to reflect an [interim COVID-19 position statement](#) issued by the Council for State and Territorial Epidemiologists on April 5, 2020. The position statement included a case definition and made COVID-19 a nationally notifiable disease.

Nationally notifiable disease cases are voluntarily reported to CDC by jurisdictions. Confirmed and probable case definition criteria are described here: <https://wwwn.cdc.gov/nndss/conditions/coronavirus-disease-2019-covid-19/case-definition/2020/>. Not all jurisdictions report probable cases and deaths to CDC. When not available to CDC, it is noted as N/A. Please note that jurisdictions may reclassify probable cases at any time to confirmed cases (if confirmatory laboratory evidence is obtained) or withdraw probable case reports entirely if further public health investigation determines that the individual most likely did not have COVID-19. As a result, probable case counts can fluctuate substantially. A jurisdiction might even report a negative number of probable cases on a given day, if more probable cases were disproven than were initially reported on that day.

### **Number of Jurisdictions Reporting**

There are currently 60 public health jurisdictions reporting cases of COVID-19. This includes the 50 states, the District of Columbia, New York City, the U.S. territories of American Samoa, Guam, the Commonwealth of the Northern Mariana Islands, Puerto Rico, and the U.S Virgin Islands as well as three independent countries in compacts of free association with the United States, Federated States of Micronesia, Republic of the Marshall Islands, and Republic of Palau. New York State's reported case and death counts do not include New York City's counts as they separately report nationally notifiable conditions to CDC.

Public use line level case data set is available at <https://data.cdc.gov/Case-Surveillance/COVID-19-Case-Surveillance-Public-Use-Data/vbim-akqf>

Restricted use detailed data set is available to researchers willing to enter a "Registration Information and Data Use Restrictions Agreement (RIDURA)" by emailing a request to [eocevent394@cdc.gov](mailto:eocevent394@cdc.gov).

COVID-19 data will be made available to the public as summary or aggregate count files, including total counts of cases and deaths by state and by county. These and other data on COVID-19 are available from multiple public locations:

<https://www.cdc.gov/coronavirus/2019-ncov/cases-updates/cases-in-us.html>

<https://www.cdc.gov/covid-data-tracker/index.html>

<https://www.cdc.gov/coronavirus/2019-ncov/covid-data/covidview/index.html>

<https://www.cdc.gov/coronavirus/2019-ncov/php/open-america/surveillance-data-analytics.html>

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Updated January 25, 2021

Data Provided by CDC Case  
Task Force

## Featured Content Using this Data

Trends in Number of  
COVID-19 Cases in the US...



External  
Content

Daily Trends in Number of COVID

# About this Dataset

[Mute Dataset](#)

Updated

**January 25, 2021**

Data Last Updated

January 25, 2021

Metadata Last Updated

November 3, 2020

Date Created

June 11, 2020

Views

**1.59M**

Downloads

**1.1M**

Data

Provided by

CDC Case Task Force

Dataset Owner

Data.CDC.gov

Administrator

[Contact Dataset Owner](#)

## Common Core

Publisher

CDC

Contact Name

Surveillance Review and Response Group

Contact Email

[eocevent394@cdc.gov](mailto:eocevent394@cdc.gov)

Footnotes

This aggregate dataset is structured to include daily numbers of confirmed and probable case and deaths reported to CDC by states over time. Because these provisional counts are subject to change, including updates to data reported previously, adjustments can occur. These adjustments can result in fewer total numbers of cases and deaths compared with the previous data, which means that new numbers of cases or deaths can include negative values that reflect such adjustments.

Suggested Citation

Centers for Disease Control and Prevention, COVID-19 Response. COVID-19 Case Surveillance Public Data Access, Summary, and Limitations

Bureau Code

009:20

Program Code

009:020

## Data Quality

Geographic Coverage

US

Geospatial Resolution

State/Territory

Temporal Applicability

2020-01-21/..

Update Frequency

Twice Daily

## Topics

Category

Case Surveillance

Tags


[covid-19](#), [aggregate](#), [death](#), [cases](#), [coronavirus](#)

## Licensing and Attribution

License

[Public Domain U.S. Government](#)

Source Link

<https://www.cdc.gov/coronavirus/2019-ncov/cases-updates/cases-in-us.html> 

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## What's in this Dataset?

Rows

**22.1K**























Columns

**15**

Each row is a

**Day for a Jurisdiction**

## Columns in this Dataset

Column Name	Description	Type
<a href="#">submission_date</a>	Date of counts	Date & Time  
<a href="#">state</a>	Jurisdiction	Plain Text  
<a href="#">tot_cases</a>	Total number of cases	Number  
<a href="#">conf_cases</a>	Total confirmed cases	Number  
<a href="#">prob_cases</a>	Total probable cases	Number  
<a href="#">new_case</a>	Number of new cases	Number  
<a href="#">pnew_case</a>	Number of new probable cases	Number  
<a href="#">tot_death</a>	Total number of deaths	Number  
<a href="#">conf_death</a>	Total number of confirmed deaths	Number  
<a href="#">prob_death</a>	Total number of probable deaths	Number  
<a href="#">new_death</a>	Number of new deaths	Number  

<a href="#">pnew_death</a>	Number of new probable deaths	Number	#	▼
<a href="#">created_at</a>	Date and time record was created	Date & Time	📅	▼
<a href="#">consent_cases</a>	If Agree, then confirmed and probable cas...	Plain Text	T	▼
<a href="#">consent_deaths</a>	If Agree, then confirmed and probable dea...	Plain Text	T	▼

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## Table Preview

[View Data](#)
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subm...	state	tot_c...	conf_...	prob...	new_...	pne...	tot_d...	conf_...
05/04/2020	KY	5,245	5,245	0	115	0	261	
12/08/2020	OK	205,999	171,497	34,502	0	0	1,752	1,0
08/21/2020	MD	103,523			624	0	3,685	3,9
04/01/2020	MN	742			53		18	
06/25/2020	NE	18,346			125	0	260	
02/24/2020	CA	10			0		0	
11/14/2020	VA	201,961	183,455	18,506	1,161	191	3,800	3,9
11/17/2020	DE	29,755	28,473	1,282	203	11	742	0
08/17/2020	IL	209,186	207,854	1,332	1,773	0	7,967	7,7
11/01/2020	MI	197,406	178,180	19,226	0	0	7,699	7,3
11/15/2020	WA	130,040			2,309	0	2,519	
01/29/2020	MA	0			0		0	
08/14/2020	MS	70,930	69,268	1,662	944	106	2,043	1,9
05/16/2020	AS	0			0	0	0	

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Showing Day for a Jurisdictions 1 to 14 out of 22,140

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