

# COVID-19 New Cases and Deaths Per Day Interactive Map and Data For Download

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**July 18, 2020 update:** Links to the downloadable csv files have changed. See below.

This report will show you two things. **First**, there is a link for an interactive map that can show you the number of **new COVID-19 cases or deaths per day for the prior 14 days**. The map has overlay layers that can display that data by county, by state or by country. **Second**, download links are provided for csv files. These files have the number of new COVID-19 cases or deaths per day for all USA counties beginning on March 24, 2020.

The data source is Johns Hopkins University. They curate a timeseries cumulative count of COVID-19 cases and deaths. In July the Trump administration ordered hospitals to stop sending data to the CDC. Here is a link to a statement from Johns Hopkins explaining that change does not affect the data that Hopkins is maintaining.

<https://twitter.com/JohnsHopkins/status/1283792012001468416>

This Johns Hopkins data is widely regarded as authoritative and is hosted on GitHub at <https://github.com/CSSEGISandData/COVID-19>. I developed code that converts the timeseries cumulative counts into **daily counts**. This code automatically runs each night shortly after midnight Pacific time.

The map and csv files are made available as a public service and are free for all to use. The only limitation is that your use must be non-commercial. This daily count data will be updated each night as the pandemic continues. Please **credit** both the COVID-19 Data Repository by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University and Joseph Elfelt, MappingSupport.com (linked to <https://mappingsupport.com>)

I am hoping that this information finds its way to teachers at the middle school and high school level. Students can use this data to make their own charts and graphs showing what the pandemic is doing per day in their county and state. And just maybe students can help 'move the needle' by convincing their parents to wear a face covering and practice social distancing.

## COVID-19 Interactive Map

The map has a number of overlay layers that you can turn on/off/restack. When the map opens it displays the overlay **"State recent COVID cases"**. Click any symbol to see a popup showing the number of new COVID-19 cases per day for the prior 14 days.

The symbols on the map summarize the recent trends as follows:

Circle	Prior 14 days
Triangle	Prior 7 days
Green	Good - numbers are trending down
Red	Bad - numbers are trending up

Open the map:

[https://mappingsupport.com/p2/gissurfer.php?center=36.738635,-98.173828&zoom=4&basemap=USA\\_basemap&overlay=County\\_boundaries,State\\_boundary,State\\_recent\\_COVID\\_cases&txtfile=https://mappingsupport.com/p2/disaster/coronavirus/covid\\_14\\_day.txt](https://mappingsupport.com/p2/gissurfer.php?center=36.738635,-98.173828&zoom=4&basemap=USA_basemap&overlay=County_boundaries,State_boundary,State_recent_COVID_cases&txtfile=https://mappingsupport.com/p2/disaster/coronavirus/covid_14_day.txt)

To turn other overlays on, click the basemap button (next to the “Menu” button) and look under the “Overlay” heading. Mobile users scroll down. Click an overlay to turn it on and again to turn it off.

An overlay with a number in front is ‘on’. **The highest numbered overlay is ‘on top’ and can be clicked to display a popup.**

Want to make your own custom map link? Start by making the map look on your screen the way you want it to look when it opens. Pay attention to which layer is ‘on top’. Click **Menu ==> Link to this map**. The link that is displayed will replicate the map on your screen.

The map is displayed by **GISsurfer** which is a general purpose web map I produce as a public service and part of my way to “pay it forward”. For more information you can visit the homepage at <https://gissurfer.com> (you will be redirected).

## COVID-19 Daily Count Data For Download

The data you can download is in one file per month. Cases and deaths are in different files. Each month 2 new files will start. Each file contains the number of new COVID-19 cases or deaths **per day** for all counties in the USA. These are csv files and also include coordinates for each county centroid. This means the files are easy to **import into spreadsheet or GIS software**. The files have the standard unix-type line ending (line feed \n).

The addresses for the July 2020 csv files with the daily count data are shown below. To download data for other months, replace ‘07’ with the 2 digit code for other months. This daily count data starts March 24th. My code automatically runs at night and updates the csv files for the current month. I intend to keep this process running as long as the pandemic continues.

COVID **cases** per day:

[https://mappingsupport.com/p2/disaster/coronavirus/JHU\\_count\\_per\\_day/cases\\_2020\\_07.csv](https://mappingsupport.com/p2/disaster/coronavirus/JHU_count_per_day/cases_2020_07.csv)

COVID **deaths** per day:

[https://mappingsupport.com/p2/disaster/coronavirus/JHU\\_count\\_per\\_day/deaths\\_2020\\_07.csv](https://mappingsupport.com/p2/disaster/coronavirus/JHU_count_per_day/deaths_2020_07.csv)

Yes, the number of new COVID19 cases and deaths in these csv files might be different than the numbers reported by county health departments. There are various reasons for any differences. For example, Hopkins counts both confirmed and probable cases. Also Hopkins 'scrapes' data from state health department websites and that data might lag a day or two behind data on county websites.

You also will sometimes see **negative numbers** in these csv files. That might indicate a person who was counted as probable but then removed from the count when a negative test result was returned in a few days. Or maybe a state or county changed its definition of what constitutes a case or a death.