# Data Table Schema

## 1\_owid/owid-covid-data

Worldwide covid-related statistics. One row for each country/day from mid-February to mid-December

*58,154 rows & 52 columns*. Size: 19MB. Source: [ourworldindata](https://ourworldindata.org/coronavirus).

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| iso\_code | STRING | ISO 3166-1 alpha-3 – three-letter country codes |
| continent | STRING | Continent of the geographical location |
| location | STRING | Geographical location |
| date | DATE | Date of observation |
| total\_cases | INTEGER | Total confirmed cases of COVID-19 |
| new\_cases | INTEGER | New confirmed cases of COVID-19 |
| new\_cases\_smoothed | FLOAT | New confirmed cases of COVID-19 (7-day smoothed) |
| total\_deaths | INTEGER | Total deaths attributed to COVID-19 |
| new\_deaths | INTEGER | New deaths attributed to COVID-19 |
| new\_deaths\_smoothed | FLOAT | New deaths attributed to COVID-19 (7-day smoothed) |
| total\_cases\_per\_million | FLOAT | Total confirmed cases of COVID-19 per 1,000,000 people |
| new\_cases\_per\_million | FLOAT | New confirmed cases of COVID-19 per 1,000,000 people |
| new\_cases\_smoothed\_per\_million | FLOAT | New confirmed cases of COVID-19 (7-day smoothed) per 1,000,000 people |
| total\_deaths\_per\_million | FLOAT | Total deaths attributed to COVID-19 per 1,000,000 people |
| new\_deaths\_per\_million | FLOAT | New deaths attributed to COVID-19 per 1,000,000 people |
| new\_deaths\_smoothed\_per\_million | FLOAT | New deaths attributed to COVID-19 (7-day smoothed) per 1,000,000 people |
| reproduction\_rate | FLOAT | Real-time estimate of the effective reproduction rate (R) of COVID-19. See http://trackingr-env.eba-9muars8y.us-east-2.elasticbeanstalk.com/FAQ |
| icu\_patients | INTEGER | Number of COVID-19 patients in intensive care units (ICUs) on a given day |
| icu\_patients\_per\_million | FLOAT | Number of COVID-19 patients in intensive care units (ICUs) on a given day per 1,000,000 people |
| hosp\_patients | INTEGER | Number of COVID-19 patients in hospital on a given day |
| hosp\_patients\_per\_million | FLOAT | Number of COVID-19 patients in hospital on a given day per 1,000,000 people |
| weekly\_icu\_admissions | FLOAT | Number of COVID-19 patients newly admitted to intensive care units (ICUs) in a given week |
| weekly\_icu\_admissions\_per\_million | FLOAT | Number of COVID-19 patients newly admitted to intensive care units (ICUs) in a given week per 1,000,000 people |
| weekly\_hosp\_admissions | FLOAT | Number of COVID-19 patients newly admitted to hospitals in a given week |
| weekly\_hosp\_admissions\_per\_million | FLOAT | Number of COVID-19 patients newly admitted to hospitals in a given week per 1,000,000 people |
| total\_tests | INTEGER | Total tests for COVID-19 |
| new\_tests | INTEGER | New tests for COVID-19 |
| new\_tests\_smoothed | INTEGER | New tests for COVID-19 (7-day smoothed). For countries that don't report testing data on a daily basis, we assume that testing changed equally on a daily basis over any periods in which no data was reported. This produces a complete series of daily figures, which is then averaged over a rolling 7-day window |
| total\_tests\_per\_thousand | FLOAT | Total tests for COVID-19 per 1,000 people |
| new\_tests\_per\_thousand | FLOAT | New tests for COVID-19 per 1,000 people |
| new\_tests\_smoothed\_per\_thousand | FLOAT | New tests for COVID-19 (7-day smoothed) per 1,000 people |
| tests\_per\_case | FLOAT | Tests conducted per new confirmed case of COVID-19, given as a rolling 7-day average (this is the inverse of positive\_rate) |
| positive\_rate | FLOAT | The share of COVID-19 tests that are positive, given as a rolling 7-day average (this is the inverse of tests\_per\_case) |
| tests\_units | STRING | Units used by the location to report its testing data |
| total\_vaccinations | INTEGER | Number of COVID-19 vaccination doses administered |
| total\_vaccinations\_per\_hundred | FLOAT | Number of COVID-19 vaccination doses administered per 100 people in the total population |
| new\_vaccinations | FLOAT | New COVID-19 vaccination doses administered (7-day smoothed). For countries that don't report vaccination data on a daily basis, we assume that vaccination changed equally on a daily basis over any periods in which no data was reported. This produces a complete series of daily figures, which is then averaged over a rolling 7-day window |
| new\_vaccinations\_per\_million | FLOAT | New COVID-19 vaccination doses administered (7-day smoothed) per 1,000,000 people in the total population |
| stringency\_index | FLOAT | Government Response Stringency Index: composite measure based on 9 response indicators including school closures, workplace closures, and travel bans, rescaled to a value from 0 to 100 (100 = strictest response) |
| population | INTEGER | Population in 2020 |
| population\_density | FLOAT | Number of people divided by land area, measured in square kilometers, most recent year available |
| median\_age | FLOAT | Median age of the population, UN projection for 2020 |
| aged\_65\_older | FLOAT | Share of the population that is 65 years and older, most recent year available |
| aged\_70\_older | FLOAT | Share of the population that is 70 years and older in 2015 |
| gdp\_per\_capita | FLOAT | Gross domestic product at purchasing power parity (constant 2011 international dollars), most recent year available |
| extreme\_poverty | FLOAT | Share of the population living in extreme poverty, most recent year available since 2010 |
| cardiovasc\_death\_rate | FLOAT | Death rate from cardiovascular disease in 2017 (annual number of deaths per 100,000 people) |
| diabetes\_prevalence | FLOAT | Diabetes prevalence (% of population aged 20 to 79) in 2017 |
| female\_smokers | FLOAT | Share of women who smoke, most recent year available |
| male\_smokers | FLOAT | Share of men who smoke, most recent year available |
| handwashing\_facilities | FLOAT | Share of the population with basic handwashing facilities on premises, most recent year available |
| hospital\_beds\_per\_thousand | FLOAT | Hospital beds per 1,000 people, most recent year available since 2010 |
| life\_expectancy | FLOAT | Life expectancy at birth in 2019 |
| human\_development\_index | FLOAT | Summary measure of average achievement in key dimensions of human development: a long and healthy life, being knowledgeable and have a decent standard of living |

## 2\_ecdc/notification

Information on the 14-day notification rate of newly reported COVID-19 cases per 100,000 population and the 14-day notification rate of reported deaths per one million population by week and country. Each row contains the corresponding data for a certain week and per country.

*18,896 rows & 10 columns.* Size: 2MB. Source: [ECDC](https://www.ecdc.europa.eu/en/publications-data/data-national-14-day-notification-rate-covid-19).

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| country | STRING | Country name |
| country\_code | STRING | Country code |
| continent | STRING | Continent |
| population | INTEGER | Population |
| indicator | STRING | Number of cases or deaths |
| weekly\_count | INTEGER | Value |
| year\_week | STRING (YYYY-WW) | Week of the year |
| rate\_14\_day | FLOAT | 14-day notification rate of reported COVID-19 cases per 100 000 population OR 14-day notification rate of reported deaths per 1000000 population |
| cumulative\_count | INTEGER | Sum of the previous week’s cumulative\_count value with this week's weekly\_count |
| source | STRING | Epidemic intelligence, national weekly data https://www.ecdc.europa.eu/en/covid-19/data-collection |

## 2\_ecdc/testing

Information about testing volume for COVID-19 by week and country. Each row contains the corresponding data for a country and a week. Source: The figures displayed for weekly testing rate and weekly test positivity are based on multiple data sources. The main source is data submitted by Member States to the European Surveillance System (TESSy), however, when not available, ECDC compiles data from public online sources. EU/EEA Member States and the UK report in TESSy all tests performed (i.e. both PCR and antigen tests).

*1,311 rows & 9 columns.* Size: <1MB. Source: [ECDC](https://www.ecdc.europa.eu/en/publications-data/covid-19-testing).

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| country | STRING | Country name |
| country\_code | STRING | 2-letter ISO country code |
| year\_week | STRING  (YYYY-WW) | Week of the year |
| new\_cases | INTEGER | Number of new confirmed cases |
| tests\_done | INTEGER | Number of tests done |
| population | INTEGER | Population |
| testing\_rate | INTEGER | Testing rate per 100 000 population |
| positivity\_rate | INTEGER | Weekly test positivity (%): 100 x Number of new confirmed cases/number of tests done per week |
| testing\_data\_source | INTEGER | * Country API * Country GitHub * Country website * Manual webscraping * Other * Survey * TESSy: data provided directly by Member States to ECDC via TESSy |

## 2\_ecdc/dailynotificationeu

Information on the 14-day notification rate of new cases per 100, 000 inhabitants for COVID-19 by day and subnational region. Each row contains the corresponding data for a certain day and per subnational region.

*173,347 rows & 6 columns.* Size: 17MB. Source: [ECDC](https://www.ecdc.europa.eu/en/publications-data/subnational-14-day-notification-rate-covid-19).

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| country | STRING | Country name |
| region\_name | STRING | Region name |
| nuts\_code | STRING | Nomenclature of Territorial Units for Statistics. A unique identifier that represents a country\region in Europe. See here for more details: https://en.wikipedia.org/wiki/Nomenclature\_of\_Territorial\_Units\_for\_Statistics |
| date | STRING (DD/MM/YYYY) | Date |
| rate\_14\_day\_per\_100k | STRING | 14-day notification rate of new cases per 100 000 inhabitants for COVID-19 |
| source | STRING | * TESSy COVID-19, subnational daily data * Country\_Github * Country\_Website |

## 2\_ecdc/weeklynotificationeu

Information on the 14-day notification rate of newly reported COVID-19 cases per 100 000 population by week and subnational region. Each row contains the corresponding data for a certain week and subnational region. There may be differences between the rates shown in this dataset and the previous dataset since they are based on different sources of data.

*15,269 rows & 6 columns.* Size: 2MB. Source: [ECDC](https://www.ecdc.europa.eu/en/publications-data/weekly-subnational-14-day-notification-rate-covid-19).

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| country | STRING | Country name |
| region\_name | STRING | Region name |
| nuts\_code | STRING | Nomenclature of Territorial Units for Statistics |
| year\_week | STRING (YYYY-WW) | Week of the year |
| rate\_14\_day\_per\_100k | STRING | 14-day notification rate of reported COVID-19 cases per 100 000 population |

## 2\_ecdc/admissionrates

Information about hospitalization and Intensive Care Unit (ICU) admission rates and current occupancy for COVID-19 by date and country. Each row contains the corresponding data for a certain date (day or week) and per country.

*13,469 rows & 7 columns.* Size: 2MB. Source: [ECDC](https://www.ecdc.europa.eu/en/publications-data/download-data-hospital-and-icu-admission-rates-and-current-occupancy-covid-19).

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| country | STRING | Country name |
| indicator | STRING | * Daily hospital occupancy (number of COVID-19 patients in hospital on a given day) * Daily ICU occupancy (number of COVID-19 patients in ICU on a given day) * Weekly new hospital admissions per 100k (weekly rate of new admissions of COVID-19 patients per 100 000 population) * Weekly new ICU new admissions of COVID-19 patients per 100k (weekly rate of new admissions per 100 000 population) |
| date | STRING  (YYYY-MM-DD) | Date for daily occupancy indicators |
| year\_week | STRING  (YYYY-WW) | Week of the year |
| value | INTEGER | Number of patients or new admissions per 100 000 population |
| source | STRING | Categorical source of data:   * TESSy: data provided directly by Member States to ECDC via TESSy * Country\_API * Country\_Github * Country\_Website * External\_Github * JRC * Surveillance * Other\_Website |
| url | STRING | URL of the data source |

2\_ecdc/country\_response\_measures

A snapshot of the measures that countries in the EU/EEA and the UK have reported to date. The response measures displayed are national measures, reported on official public websites.

*1,339 rows & 4 columns.* Size: <1MB. Source: [ECDC](https://www.ecdc.europa.eu/en/publications-data/download-data-response-measures-covid-19).

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| country | STRING | Country name |
| response\_  measure | STRING | StayHomeOrder = Stay-at-home orders for the general population (these are enforced and also referred to as ‘lockdown’)  RegionalStayHomeOrder = Regional stay-at-home orders for the general population at least in one region (these are enforced and also referred to as ‘lockdown’)  StayHomeGen = Stay-at-home recommendations for the general population (which are voluntary or not enforced)  StayHomeRiskG = Stay-at-home recommendations for risk groups or vulnerable populations (such as the elderly, people with underlying health conditions, physically disabled people, etc.)  SocialCircle = Social circle/bubble to limit social contacts e.g. to limited number of households  PrivateGatheringRestrictions = Restrictions on private gatherings  ClosDaycare = Closure of educational institutions: daycare or nursery.  ClosPrim = Closure of educational institutions: primary schools.  ClosSec = Closure of educational institutions: secondary schools.  ClosHigh = Closure of educational institutions: higher education.  MassGatherAll = Interventions are in place to limit mass/public gatherings (any interventions on mass gatherings up to 1000 participants included)  BanOnAllEvents = Interventions are in place to limit all indoor/outdoor mass/public gatherings  IndoorOver50 = Interventions are in place to limit indoor mass/public gatherings of over 50 participants  IndoorOver100 = Interventions are in place to limit indoor mass/public gatherings of over 100 participants  IndoorOver500 = Interventions are in place to limit indoor mass/public gatherings of over 500 participants  IndoorOver1000 = Interventions are in place to limit indoor mass/public gatherings of over 1000 participants  OutdoorOver50 = Interventions are in place to limit outdoor mass/public gatherings of over 50 participants  OutdoorOver100 = Interventions are in place to limit outdoor mass/public gatherings of over 100 participants  OutdoorOver500 = Interventions are in place to limit outdoor mass/public gatherings of over 500 participants  OutdoorOver1000 = Interventions are in place to limit outdoor mass/public gatherings of over 1000 participants  ClosPubAny = Closure of public spaces of any kind (including restaurants, entertainment venues, non-essential shops, partial or full closure of public transport, gyms and sport centers, etc).  EntertainmentVenues = Closure of entertainment venues  ClosureOfPublicTransport = Closure of public transport  GymsSportsCentres = Closure of gyms/sports centres  HotelsAccommodation = Closure of hotels/accommodation services  NonEssentialShops = Closures of non-essential shops  PlaceOfWorship = Closure of places of worship  RestaurantsCafes = Closure of restaurants and cafes/bars  MasksVoluntaryAllSpaces = Protective mask use in all public spaces on voluntary basis (general recommendation not enforced)  MasksVoluntaryClosedSpaces = Protective mask use in closed public spaces/transport on voluntary basis (general recommendation not enforced)  MasksMandatoryAllSpaces = Protective mask use in all public spaces on mandatory basis (enforced by law)  MasksMandatoryClosedSpaces = Protective mask use in closed public spaces/transport on mandatory basis (enforced by law)  Teleworking = Teleworking recommendation  AdaptationOfWorkplace = Adaptation of workplaces (e.g. to reduce risk of transmission)  WorkplaceClosures = Closures of workplaces  StayHomeOrderPartial = Stay-at-home orders for the general population (these are enforced and also referred to as ‘lockdown’) – partially relaxed measure  RegionalStayHomeOrderPartial = Regional stay-at-home orders for the general population at least in one region (these are enforced and also referred to as ‘lockdown’) – partially relaxed measure  StayHomeGenPartial = Stay-at-home recommendations for the general population (which are voluntary or not enforced) – partially relaxed measure  StayHomeRiskGPartial = Stay-at-home recommendations for risk groups or vulnerable populations (such as the elderly, people with underlying health conditions, physically disabled people, etc.) – partially relaxed measure  SocialCirclePartial = Social circle/bubble to limit social contacts e.g. to limited number of households – partially relaxed measure  PrivateGatheringRestrictionsPartial = Restrictions on private gatherings – partially relaxed measure  ClosDaycarePartial = Closure of educational institutions: daycare or nursery – partially relaxed measure  ClosPrimPartial = Closure of educational institutions: primary schools – partially relaxed measure  ClosSecPartial = Closure of educational institutions: secondary schools – partially relaxed measure  ClosHighPartial = Closure of educational institutions: higher education – partially relaxed measure  MassGatherAllPartial = Interventions are in place to limit mass/public gatherings (any interventions on mass gatherings up to 1000 participants included) – partially relaxed measure  BanOnAllEventsPartial = Interventions are in place to limit all indoor/outdoor mass/public gatherings – partially relaxed measure  IndoorOver50Partial = Interventions are in place to limit indoor mass/public gatherings of over 50 participants – partially relaxed measure  IndoorOver100Partial = Interventions are in place to limit indoor mass/public gatherings of over 100 participants – partially relaxed measure  IndoorOver500Partial = Interventions are in place to limit indoor mass/public gatherings of over 500 participants – partially relaxed measure  IndoorOver1000Partial = Interventions are in place to limit indoor mass/public gatherings of over 1000 participants – partially relaxed measure  OutdoorOver50Partial = Interventions are in place to limit outdoor mass/public gatherings of over 50 participants – partially relaxed measure  OutdoorOver100Partial = Interventions are in place to limit outdoor mass/public gatherings of over 100 participants – partially relaxed measure  OutdoorOver500Partial = Interventions are in place to limit outdoor mass/public gatherings of over 500 participants – partially relaxed measure  OutdoorOver1000Partial = Interventions are in place to limit outdoor mass/public gatherings of over 1000 participants – partially relaxed measure  ClosPubAnyPartial = Closure of public spaces of any kind (including restaurants, entertainment venues, non-essential shops, partial or full closure of public transport, gyms and sport centers etc) – partially relaxed measure  EntertainmentVenuesPartial = Closure of entertainment venues – partially relaxed measure  ClosureOfPublicTransportPartial = Closure of public transport – partially relaxed measure    GymsSportsCentresPartial = Closure of gyms/sports centres – partially relaxed measure  HotelsAccommodationPartial = Closure of hotels/accommodation services – partially relaxed measure  NonEssentialShopsPartial = Closures of non-essential shops – partially relaxed measure  PlaceOfWorshipPartial = Closure of places of worship – partially relaxed measure  RestaurantsCafesPartial = Closure of restaurants and cafes/bars – partially relaxed measure  MasksVoluntaryAllSpacesPartial = Protective mask use in all public spaces on voluntary basis (general recommendation not enforced) – partially relaxed measure  MasksVoluntaryClosedSpacesPartial = Protective mask use in closed public spaces/transport on voluntary basis (general recommendation not enforced) – partially relaxed measure  MasksMandatoryAllSpacesPartial = Protective mask use in all public spaces on mandatory basis (enforced by law) – partially relaxed measure  MasksMandatoryClosedSpacesPartial = Protective mask use in closed public spaces/transport on mandatory basis (enforced by law) – partially relaxed measure  TeleworkingPartial = Teleworking recommendation or workplace closures – partially relaxed measure  AdaptationOfWorkplacePartial = Adaptation of workplaces (e.g. to reduce risk of transmission) – partially relaxed measure  WorkplaceClosuresPartial = Closures of workplaces – partially relaxed measure |
| date\_start | STRING | (DD/MM/YYYY) |
| date\_end | STRING | (DD/MM/YYYY) |

2\_ecdc/agerangenotificationeu

Information on the 14-day notification rate of newly reported COVID-19 cases per 100 000 population by age group, week and country. Each row contains the corresponding data for a certain week and country.

*7,008 rows & 8 columns.* Size: <1MB. Source: [ECDC](https://www.ecdc.europa.eu/en/publications-data/covid-19-data-14-day-age-notification-rate-new-cases).

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| country | STRING | Country name |
| country\_code | STRING | 2-letter ISO country code |
| year\_week | STRING  (YYYY-WW) | Week of the year |
| age\_group | INTEGER | Age group of cases in years |
| new\_cases | INTEGER | Weekly number of new confirmed cases. Numbers under 5 are suppressed. |
| population | INTEGER | Age-specific population for the country |
| rate\_14\_day\_per\_100k | INTEGER | Age-specific 14-day notification rate of reported COVID-19 cases per 100 000 population |
| source | STRING | TESSy |

3\_covidtracking/national-history

Daily data on the COVID-19 pandemic for the US at country level

*358 rows & 18 columns.* Size: <1MB. Source: [covidtracking](https://covidtracking.com/data/download).

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| date | STRING | (DD/MM/YYYY) Date |
| death | INTEGER | Total **fatalities with confirmed OR probable COVID-19 case diagnosis** (per the expanded [CSTE case definition](https://cdn.ymaws.com/www.cste.org/resource/resmgr/2020ps/Interim-20-ID-01_COVID-19.pdf) of April 5th, 2020 [approved by the CDC](https://wwwn.cdc.gov/nndss/conditions/coronavirus-disease-2019-covid-19/case-definition/2020/)). In some states, these individuals must also have COVID-19 listed on the death certificate to count as a COVID-19 death. When states post multiple numbers for fatalities, the metric includes only deaths with COVID-19 listed on the death certificate, unless deaths among cases is a more reliable metric in the state. |
| deathIncrease | INTEGER | Daily increase in death, calculated from the previous day’s value |
| inIcuCumulative | INTEGER | Total number of individuals who have **ever been hospitalized in the Intensive Care Unit with COVID-19**. Definitions vary by state / territory, and it is not always clear whether pediatric patients are included in this metric. Where possible, we report patients in the ICU with confirmed or suspected COVID-19 cases. |
| inIcuCurrently | INTEGER | Individuals who are **currently hospitalized in the Intensive Care Unit with COVID-19**. Definitions vary by state / territory, and it is not always clear whether pediatric patients are included in this metric. Where possible, we report patients in the ICU with confirmed or suspected COVID-19 cases. |
| hospitalizedIncrease | INTEGER | Daily increase in *hospitalizedCumulative*, calculated from the previous day’s value. |
| hospitalizedCurrently | INTEGER | Individuals who are **currently hospitalized with COVID-19**. Definitions vary by state / territory, and it is not always clear whether pediatric patients are included in this metric. Where possible, we report patients hospitalized with confirmed or suspected COVID-19 cases. |
| hospitalizedCumulative | INTEGER | Total number of individuals who have **ever been hospitalized with COVID-19**. Definitions vary by state / territory, and it is not always clear whether pediatric patients are included in this metric. Where possible, we report patients hospitalized with confirmed or suspected COVID-19 cases. |
| negative | INTEGER | Total number of unique people with a completed PCR test that returns negative. For states / territories that do not report this number directly, we compute it using one of several methods, depending on which data points the state provides. Due to complex reporting procedures, this number might be mixing units and therefore, at best, it should only be considered an estimate of the number of people with a completed PCR test that return negative. |
| negativeIncrease | INTEGER | Daily increase in negative test results, calculated from the previous day’s value. |
| onVentilatorCumulative | INTEGER | Total number of individuals who have **ever been hospitalized under advanced ventilation with COVID-19**. Definitions vary by state / territory, and it is not always clear whether pediatric patients are included in this metric. Where possible, we report patients on ventilation with confirmed or suspected COVID-19 cases. |
| onVentilatorCurrently | INTEGER | Individuals who are **currently hospitalized under advanced ventilation with COVID-19**. Definitions vary by state / territory, and it is not always clear whether pediatric patients are included in this metric. Where possible, we report patients on ventilation with confirmed or suspected COVID-19 cases. |
| positive | INTEGER | Total number of **confirmed plus probable cases** of COVID-19 reported by the state or territory, ideally per the [August 5, 2020 CSTE case definition](https://wwwn.cdc.gov/nndss/conditions/coronavirus-disease-2019-covid-19/case-definition/2020/08/05/). Some states are following the older [April 5th, 2020 CSTE case definition](https://wwwn.cdc.gov/nndss/conditions/coronavirus-disease-2019-covid-19/case-definition/2020/) or using their own custom definitions. Not all states and territories report probable cases. If a state is not reporting probable cases, this field will just represent confirmed cases. |
| positiveIncrease | INTEGER | The daily increase in API field positive, which measures Cases (confirmed plus probable) calculated based on the previous day’s value. |
| recovered | INTEGER | Total number of **people that are identified as recovered from COVID-19**. States provide very disparate definitions on what constitutes a “recovered” COVID-19 case. Types of “recovered” cases include those who are discharged from hospitals, released from isolation after meeting CDC guidance on [symptoms cessation](https://www.cdc.gov/coronavirus/2019-ncov/hcp/disposition-in-home-patients.html), or those who have not been identified as fatalities after a number of days (30 or more) post disease onset. Specifics vary for each state or territory. |
| states | INTEGER | Only available in national records. The number of states and territories included in the US dataset for this day. |
| totalTestResults | INTEGER | At the national level, this metric is a summary statistic which—because it sums figures from states reporting tests in test encounters with those reporting tests in specimens and in people—is an aggregate calculation of heterogeneous figures. Therefore, it should be contextualized as, at best, an estimate of national testing performance. |
| totalTestResultsIncrease | INTEGER | Daily increase in *totalTestResults*, calculated from the previous day’s value. This calculation includes all the caveats associated with Total tests/*totalTestResults*, and we recommend against using it at the state/territory level. |

3\_covidtracking/STATENAME-history*(example: alabama-history.csv – all other states can be downloaded from the link below)*

Daily data on the COVID-19 pandemic for all the states in US

*306 rows & 42 columns.* Size: <1MB. Source: [covidtracking](https://covidtracking.com/data/download).

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| date | STRING | (DD/MM/YYYY) Date |
| state | STRING | State ID |
| dataQualityGrade | STRING | The COVID Tracking Project grade of the completeness of the data reporting by a state. See our [State Grades page](https://covidtracking.com/about-data/state-grades) and our [spreadsheet of grade factors](https://docs.google.com/spreadsheets/u/1/d/e/2PACX-1vRL2zG1o-qj9l2sl19d1lj1oHd6WbkJ0ukFwN04a_ms_ANUdgxTMpI7AF-gbQzwOSreJUDx6PEK7Vnq/pubhtml) for more information. |
| death | INTEGER | Total **fatalities with confirmed OR probable COVID-19 case diagnosis** (per the expanded [CSTE case definition](https://cdn.ymaws.com/www.cste.org/resource/resmgr/2020ps/Interim-20-ID-01_COVID-19.pdf) of April 5th, 2020 [approved by the CDC](https://wwwn.cdc.gov/nndss/conditions/coronavirus-disease-2019-covid-19/case-definition/2020/)). In some states, these individuals must also have COVID-19 listed on the death certificate to count as a COVID-19 death. When states post multiple numbers for fatalities, the metric includes only deaths with COVID-19 listed on the death certificate, unless deaths among cases is a more reliable metric in the state. |
| deathConfirmed | INTEGER | Total **fatalities with confirmed COVID-19 case diagnosis** (per the expanded [CSTE case definition](https://cdn.ymaws.com/www.cste.org/resource/resmgr/2020ps/Interim-20-ID-01_COVID-19.pdf) of April 5th, 2020 [approved by the CDC](https://wwwn.cdc.gov/nndss/conditions/coronavirus-disease-2019-covid-19/case-definition/2020/)). In some states, these individuals must also have COVID-19 listed on the death certificate to count as a COVID-19 death. When states post multiple numbers for confirmed fatalities, the metric includes only lab-confirmed deaths with COVID-19 listed on the death certificate, unless deaths among confirmed cases is a more reliable metric in the state. |
| deathIncrease | INTEGER | Daily increase in death, calculated from the previous day’s value |
| deathProbable | INTEGER | Total **fatalities with probable COVID-19 case diagnosis** (per the expanded [CSTE case definition](https://cdn.ymaws.com/www.cste.org/resource/resmgr/2020ps/Interim-20-ID-01_COVID-19.pdf) of April 5th, 2020 [approved by the CDC](https://wwwn.cdc.gov/nndss/conditions/coronavirus-disease-2019-covid-19/case-definition/2020/)). In some states, these individuals must also have COVID-19 listed on the death certificate to count as a COVID-19 death. When states post multiple numbers for probable fatalities, the metric includes only probable fatalities with COVID-19 listed on the death certificate, unless deaths among probable cases is a more reliable metric in the state. |
| hospitalized | INTEGER | Total number of individuals who have **ever been hospitalized with COVID-19**. Definitions vary by state / territory, and it is not always clear whether pediatric patients are included in this metric. Where possible, we report patients hospitalized with confirmed or suspected COVID-19 cases. |
| hospitalizedCumulative | INTEGER | Total number of individuals who have **ever been hospitalized with COVID-19**. Definitions vary by state / territory, and it is not always clear whether pediatric patients are included in this metric. Where possible, we report patients hospitalized with confirmed or suspected COVID-19 cases. |
| hospitalizedCurrently | INTEGER | Individuals who are **currently hospitalized with COVID-19**. Definitions vary by state / territory, and it is not always clear whether pediatric patients are included in this metric. Where possible, we report patients hospitalized with confirmed or suspected COVID-19 cases. |
| hospitalizedIncrease | INTEGER | Daily increase in *hospitalizedCumulative*, calculated from the previous day’s value. |
| inIcuCumulative | INTEGER | Total number of individuals who have **ever been hospitalized in the Intensive Care Unit with COVID-19**. Definitions vary by state / territory, and it is not always clear whether pediatric patients are included in this metric. Where possible, we report patients in the ICU with confirmed or suspected COVID-19 cases. |
| inIcuCurrently | INTEGER | Individuals who are **currently hospitalized in the Intensive Care Unit with COVID-19**. Definitions vary by state / territory, and it is not always clear whether pediatric patients are included in this metric. Where possible, we report patients in the ICU with confirmed or suspected COVID-19 cases. |
| negative | INTEGER | Total number of unique people with a completed PCR test that returns negative. For states / territories that do not report this number directly, we compute it using one of several methods, depending on which data points the state provides. Due to complex reporting procedures, this number might be mixing units and therefore, at best, it should only be considered an estimate of the number of people with a completed PCR test that return negative. |
| negativeIncrease | INTEGER | Daily increase in negative test results, calculated from the previous day’s value. |
| negativeTestsAntibody | INTEGER | The total number of **completed antibody tests that return negative** as reported by the state or territory. |
| negativeTestsPeopleAntibody | INTEGER | The total number of **unique people with completed antibody tests that return negative** as reported by the state or territory. |
| negativeTestsViral | INTEGER | Total number of **completed PCR tests (or specimens tested) that return negative** as reported by the state or territory. For states/territories that do not report this number directly, we compute it using one of several methods, depending on which data points the state provides. If we discover that a jurisdiction is including antigen tests in this metric, we will annotate that state or territory’s data accordingly. |
| onVentilatorCumulative | INTEGER | Total number of individuals who have **ever been hospitalized under advanced ventilation with COVID-19**. Definitions vary by state / territory, and it is not always clear whether pediatric patients are included in this metric. Where possible, we report patients on ventilation with confirmed or suspected COVID-19 cases. |
| onVentilatorCurrently | INTEGER | Individuals who are **currently hospitalized under advanced ventilation with COVID-19**. Definitions vary by state / territory, and it is not always clear whether pediatric patients are included in this metric. Where possible, we report patients on ventilation with confirmed or suspected COVID-19 cases. |
| positive | INTEGER | Total number of **confirmed plus probable cases** of COVID-19 reported by the state or territory, ideally per the [August 5, 2020 CSTE case definition](https://wwwn.cdc.gov/nndss/conditions/coronavirus-disease-2019-covid-19/case-definition/2020/08/05/). Some states are following the older [April 5th, 2020 CSTE case definition](https://wwwn.cdc.gov/nndss/conditions/coronavirus-disease-2019-covid-19/case-definition/2020/) or using their own custom definitions. Not all states and territories report probable cases. If a state is not reporting probable cases, this field will just represent confirmed cases. |
| positiveCasesViral | INTEGER | Total number of **unique people with a positive PCR or other approved nucleic acid amplification test (NAAT)**, as reported by the state or territory. This is equivalent to a **confirmed case** as per the [CSTE case definitions of August 5th, 2020](https://wwwn.cdc.gov/nndss/conditions/coronavirus-disease-2019-covid-19/case-definition/2020/08/05/) and [April 5th, 2020](https://wwwn.cdc.gov/nndss/conditions/coronavirus-disease-2019-covid-19/case-definition/2020/). If we discover a jurisdiction is labeling cases as confirmed using other evidence (e.g. positive antigen tests), we will annotate that state or territory’s data accordingly. |
| positiveIncrease | INTEGER | The daily increase in API field positive, which measures Cases (confirmed plus probable) calculated based on the previous day’s value. |
| positiveScore | INTEGER | Not used (all zeroes) |
| positiveTestsAntibody | INTEGER | Total number of **completed antibody tests that return positive** as reported by the state or territory. |
| positiveTestsAntigen | INTEGER | Total number of **completed antigen tests that return positive** as reported by the state or territory. |
| positiveTestsPeopleAntibody | INTEGER | The total number of **unique people with completed antibody tests that return positive** as reported by the state or territory. |
| positiveTestsPeopleAntigen | INTEGER | Total number of **unique people with a completed antigen test that returned positive** as reported by the state or territory. |
| positiveTestsViral | INTEGER | Total number of **completed PCR tests (or specimens tested) that return positive** as reported by the state or territory. If we discover that a jurisdiction is including antigen tests in this metric, we will annotate that state or territory’s data accordingly. |
| recovered | INTEGER | Total number of **people that are identified as recovered from COVID-19**. States provide very disparate definitions on what constitutes a “recovered” COVID-19 case. Types of “recovered” cases include those who are discharged from hospitals, released from isolation after meeting CDC guidance on [symptoms cessation](https://www.cdc.gov/coronavirus/2019-ncov/hcp/disposition-in-home-patients.html), or those who have not been identified as fatalities after a number of days (30 or more) post disease onset. Specifics vary for each state or territory. |
| totalTestEncountersViral | INTEGER | Total number of **people tested *per day* via PCR testing** as reported by the state or territory. The count for this metric is incremented up by one for each day on which an individual person is tested, no matter how many specimens are collected from that person on that day. If an individual person is tested twice a day on three different days, this count will increment up by three. If we discover that a jurisdiction is including antigen tests in this metric, we will annotate that state or territory’s data accordingly. |
| totalTestEncountersViralIncrease | INTEGER | Increase in totalTestEncountersViral |
| totalTestResults | INTEGER | At the national level, this metric is a summary statistic which—because it sums figures from states reporting tests in test encounters with those reporting tests in specimens and in people—is an aggregate calculation of heterogeneous figures. Therefore, it should be contextualized as, at best, an estimate of national testing performance. |
| totalTestResultsIncrease | INTEGER | Daily increase in *totalTestResults*, calculated from the previous day’s value. This calculation includes all the caveats associated with Total tests/*totalTestResults*, and we recommend against using it at the state/territory level. |
| totalTestsAntibody | INTEGER | Total number of **completed antibody tests** as reported by the state or territory. |
| totalTestsAntigen | INTEGER | Total number of **completed antigen tests**, as reported by the state or territory. |
| totalTestsPeopleAntibody | INTEGER | The total number of **unique people who have been tested at least once via antibody testing** as reported by the state or territory. |
| totalTestsPeopleAntigen | INTEGER | Total number of **unique people who have been tested at least once via antigen testing**, as reported by the state or territory. |
| totalTestsPeopleViral | INTEGER | Total number of **unique people tested at least once via PCR testing**, as reported by the state or territory. The count for this metric is incremented up only the first time an individual person is tested and their result is reported. Future tests of the same person will not be added to this count.  In the case where the state only provides negative cases, this field is calculated as the **summation** of people who tested positive (“Positive Cases (People”) and the number of people who tested negative (“Negative (People or Cases)”). If we discover that a jurisdiction is including antigen tests in this metric, we will annotate that state or territory’s data accordingly. |
| totalTestsPeopleViralIncrease | INTEGER | Increase in totalTestsPeopleViral |
| totalTestsViral | INTEGER | Total number of **PCR tests (or specimens tested)** as reported by the state or territory. The count for this metric is incremented up each time a specimen is tested and the result is reported. If we discover that a jurisdiction is including antigen tests in this metric, we will annotate that state or territory’s data accordingly. For states with ambiguous annotations, we have assigned their total tests to this category; these states and territories are identified in the new API field *covidTrackingProjectPreferredTotalTestUnits* as having “Unclear units.” |
| totalTestsViralIncrease | INTEGER | Increase in totalTestsViralIncrease |