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United States COVID-19 County Level of Community Transmission Historical Changes Public

Health Surveillance

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Access this Dataset via OData

Use OData to open the dataset in tools like Excel or Tableau. This provides a direct connection to the data that can be refreshed on-demand within the connected application.

Tableau users should select the OData v2 endpoint option.

[Socrata OData Documentation](#)

OData Endpoint

https://data.cdc.gov/api/odata/v4/nra9-vzzn

OData V4



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This public use dataset has 7 data elements reflecting historical data for community transmission levels for all available counties. This dataset contains historical data for the county level of community transmission and includes updated data submitted by states and jurisdictions. Each day, the dataset is appended to contain the most recent day's data. This dataset includes data from January 1, 2021. Transmission level is set to low, moderate, substantial, or high using the calculation rules below.

Currently, CDC provides the public with two versions of COVID-19 county-level community transmission level data: this dataset with the levels for each county from January 1, 2021 ([Historical Changes dataset](#)) and a dataset with the levels as originally posted ([Originally Posted dataset](#)), updated daily with the most recent day's data.

Methods for calculating county level of community transmission indicator

<https://data.cdc.gov/Public-Health-Surveillance/United-States-COVID-19-County-Level-of-Community-T/nra9-vzzn>

Updated April 23, 2022
Data Provided by CDC COVID-19 Response

About this Dataset

[Mute Dataset](#)

Mute this asset to stop receiving notifications. To resume notifications, you can unmute the asset at any time.

April 23, 2022

Data Last Updated April 23, 2022

Metadata Last Updated January 7, 2022

Method for calculating county level of community transmission indicator

The County Level of Community Transmission indicator uses two metrics: (1) total new COVID-19 cases per 100,000 persons in the last 7 days and (2) percentage of positive SARS-CoV-2 diagnostic nucleic acid amplification tests (NAAT) in the last 7 days. For each of these metrics, CDC classifies transmission values as low, moderate, substantial, or high (below and [here](#)). If the values for each of these two metrics differ (e.g., one indicates moderate and the other low), then the higher of the two should be used for decision-making.

CDC core metrics of and thresholds for community transmission levels of SARS-CoV-2

Total New Case Rate Metric: "New cases per 100,000 persons in the past 7 days" is calculated by adding the number of new cases in the county (or other administrative level) in the last 7 days divided by the population in the county (or other administrative level) and multiplying by 100,000. "New cases per 100,000 persons in the past 7 days" is considered to have transmission level of Low (0-9.99); Moderate (10.00-49.99); Substantial (50.00-99.99); and High (greater than or equal to 100.00).

Test Percent Positivity Metric: "Percentage of positive NAAT in the past 7 days" is calculated by dividing the number of positive tests in the county (or other administrative level) during the last 7 days by the total number of tests resulted over the last 7 days. "Percentage of positive NAAT in the past 7 days" is considered to have transmission level of Low (less than 5.00); Moderate (5.00-7.99); Substantial (8.00-9.99); and High (greater than or equal to 10.00).

If the two metrics suggest different transmission levels, the higher level is selected. If one metric is missing, the other metric is used for the indicator.

Transmission categories include:

Low Transmission Threshold: Counties with fewer than 10 total cases per 100,000 population in the past 7 days, and a NAAT percent test positivity in the past 7 days below 5%;

Moderate Transmission Threshold: Counties with 10-49 total cases per 100,000 population in the past 7 days or a NAAT test percent positivity in the past 7 days of 5.0-7.99%;

Substantial Transmission Threshold: Counties with 50-99 total cases per 100,000 population in the past 7 days or a NAAT test percent positivity in the past 7 days of 8.0-9.99%;

High Transmission Threshold: Counties with 100 or more total cases per 100,000 population in the past 7 days or a NAAT test percent positivity in the past 7 days of 10.0% or greater.

Date Created August 6, 2021

Views

37.5K

Downloads

11K

Data Provided by CDC COVID-19 Response

Dataset Owner Brian Lee

Contact Dataset Owner

Common Core

Contact Name	Surveillance Review and Response Group
Contact Email	eocevent394@cdc.gov
Publisher	CDC
Public Access Level	Data asset is publicly available to all without restrictions (public)
References	https://data.cdc.gov/Public-Health-Surveillance/United-States-County-Level-of-Community-Transmissi/8396-v7yb
Bureau Code	Centers for Disease Control and Prevention (009:20)
Program Code	HHS:Program Management (009:020)
Geographic Coverage	US
Update Frequency	R/P1D

Data Quality

Geospatial Resolution	State, County
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Topics

Category	Public Health Surveillance
Tags	covid-19 , coronavirus , laboratory , cases , county , community transmission

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Blank : total new cases in the past 7 days are not reported (county data known to be unavailable) and the percentage of positive NAATs tests during the past 7 days (blank) are not reported.

Data Suppression

To prevent the release of data that could be used to identify people, data cells are suppressed for low frequency. When the **total new case rate metric** ("cases_per_100K_7_day_count_change") is greater than zero and less than 10, this metric is set to "suppressed" rather than including its value to protect individual privacy. 0 values are still displayed.

Related data

For originally posted levels of county community transmission, visit [United States COVID-19 County Level of Community Transmission as Originally Posted](#), where each report date's original values are stored for each county.

The following apply to these datasets: data are considered provisional by CDC and are subject to change until the data are reconciled and verified with the state and territorial data providers; some data are suppressed to protect individual privacy; datasets are updated daily; and datasets are created using CDC's [Policy on Public Health Research and Nonresearch Data Management and Access](#).

Duplicate Records Issue

A bug was found on 12/28/2021 that caused many records in the dataset to be duplicated. This issue was resolved on 01/06/2022.

[More](#)[Less](#)

Column Name		Description	Type
state_name	State		Plain Text
Data Type			
Text			
API Field Name			
state_name			
county_name	County		Plain Text

What's in this Dataset?

Rows
2.65M
Columns
7
Each row is a
County Community Transmission Level by Date

Columns in this Dataset

Column Name	Description	Type
Data Type Text API Field Name county_name		
fips_code	County FIPS code, zero padded	Plain Text
Data Type Text API Field Name fips_code		
date	Week ending date for the 7-day period for the case rate and the percent positivity	Date & Time
Data Type Floating Timestamp API Field Name date		
cases_per_100K_7_day_count_change	Total number of new cases per 100,000 persons within the last 7 days	Plain Text
Data Type Text API Field Name cases_per_100k_7_day_count		
percent_test_results_reported_positive_last_7_days	Percentage of positive diagnostic and screening nucleic acid amplification tests (NAAT) during the last 7 days	Number
Data Type Number API Field Name percent_test_results_reported		
community_transmission_level	Community Transmission Level Indicator [low, moderate, substantial, high, blank]	Plain Text
Data Type Text API Field Name community_transmission_level		

Table Preview

[View Data](#)[Create Visualization](#)

state_name	county_name	fips_code	date	cases_per_100K_7_day_count_change	percent_test_results_reported_positive_last_7_days	community_transmission_level
South Dakota	Brown County	46013	08/24/2020	180.231	14.08	high
South Dakota	Edmunds County	46045	08/24/2020	suppressed	8.70	high
Texas	Jones County	48253	08/24/2020	0.000	9.30	substantial
Texas	Taylor County	48441	08/24/2020	65.926	9.95	substantial
Texas	Callahan County	48059	08/24/2020	suppressed	13.33	high
Oklahoma	Pontotoc County	40123	08/24/2020	26.121	9.03	substantial
Puerto Rico	Isabela Municipio	72071	08/24/2020	suppressed	1.16	moderate
Puerto Rico	Rincón Municipio	72117	08/24/2020	suppressed		moderate
Puerto Rico	San Sebastián Municipio	72131	08/24/2020	suppressed	0.00	moderate
Puerto Rico	Utuado Municipio	72141	08/24/2020	suppressed	0.00	moderate
Puerto Rico	Moca Municipio	72099	08/24/2020	28.661	4.35	moderate
Puerto Rico	Aguada Municipio	72003	08/24/2020	40.879	2.70	moderate
Puerto Rico	Lares Municipio	72081	08/24/2020	53.551	0.00	substantial

[Previous](#) [Next](#) Showing County Community Transmission Level by Dates 1 to 13 out of 2,648,484

Click and drag to pan the chart

[View Source Data](#)

Open this dataset in Carto?

Your browser will be redirected to Carto, would you like to proceed?

[Note that Carto has a file size limit of 150MB or 500,000 rows.](#)

Learn about more external integrations at

<https://support.socrata.com/hc/en-us/articles/115010730868>

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[Note that Plot.ly has a file size limit of 5MB.](#)

Learn about more external integrations at

<https://support.socrata.com/hc/en-us/articles/115010730868>

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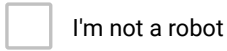
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Message

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