COVID Data Tracker

Maps, charts, and data provided by CDC, updates Mon-Fri by 8 pm ET

COVID-19 Home ?

CDC recommends use of COVID-19 Community Levels to determine the impact of COVID-19 on communities and to take action. CDC also provides recommendations for COVID-19 prevention and treatment based on COVID-19 Community Levels.
Visit Your County to see COVID-19 Community Levels and other indicators in your county.

United States At a Glance	Cases Total 98,247,449	Deaths Total 1,081,472	Current Vaccinations Ongoing 2,000,000,000+	2/5/20	15.1% of People in with Cases
					14.8% of People in Deaths

Data Tracker Home

Cases, Deaths, & Testing

Case & Death Demographic Trends

Vaccination Distribution & Coverage

Vaccine Effectiveness & Breakthrough Surveillance

Health Equity

Pediatric

Pregnancy

People at Increased Risk

Wastewater Surveillance

Health Care Settings

Social Impact & Prevention

Variants & Genomic Surveillance

Antibody Seroprevalence

Post-COVID Conditions

Traveler-Based Genomic Surveillance

Other COVID-19 Data

Communications Resources

COVID-19 Home

Get Email Updates

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What's this?

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Wastewater Surveillance

COVID-19: Wastewater Surveillance

Communities can track the presence of SARS-CoV-2, the virus that causes COVID-19, in wastewater to understand the extent to which the spread of COVID-19 is spread in communities. For more information, visit the Wastewater Surveillance Team page.

Monitoring Wastewater Surveillance Data

Wastewater surveillance for COVID-19 is a rapidly developing field. Data, tools, and resources for local and state health departments participating in the National Wastewater Surveillance System are rapidly evolving. Visit this page to learn about the data and interpret these data and presents them in the COVID Data Tracker. Data from the National System for samples and lab-facility results are reported to CDC varies by health department.

Wastewater data are meant to be used with other COVID-19 surveillance data to better understand COVID-19 in your community. Data from wastewater surveillance may be reported outside of the Central and Eastern Time zones. To see a map of which SARS-CoV-2 variant is most prevalent in your region, please visit the CDC COVID Data Tracker Summary of Variant Surveillance.

View information about the data and download the data.

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Monitoring Wastewater Surveillance Data
Wastewater Data Charts
Wastewater Hours, Map
Data Downloads
Terms to Know
About the Data

Wastewater Data Charts

This chart shows how much virus levels have changed (increased and decreased) over the last two weeks in your state. Data from the last 15 days are not shown. Data in category of the most recent change may be based on fewer data points than other categories.

The percent change metric shows whether virus levels have increased or decreased at sites over the last 15 days.

- Blue (decreasing): Large decrease (-100%); Decrease (-99% to -10%); Virus levels decreased at these sites in the last 15 days.
- Gray (stable): Stable (-9% to 9%); Virus levels stayed about the same at these sites in the last 15 days.
- Orange and red categories (Increase (10% to 99%); Large increase (100% or more)): Virus levels increased at these sites in the last 15 days.

The chart shows the overall percent of sites that were in each category over time since January 1, 2021. If there are no data for a chart, it stalled light or dark blue. It means no levels were decreasing at more sites at that point in time. If there area on the chart is empty, it means no levels were increasing at more than a few sites at that point in time. Since the percent change in the last 15 days metric may be affected by recent data, the most recent data may be subject to change.

Note: This chart **does not** show absolute levels of SARS-CoV-2 in wastewater.

Percent of sites in each percent change category over time, United States

Wastewater Metric Map

State or territory: *

Select a state or territory

County:

Select a county

Show Selections

Time Period: Nov 27, 2022 – Dec 11, 2022

Hide Cities

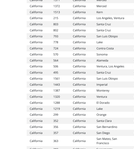
Hide Cities OR

Metric:
- Current virus levels in wastewater by site
- Percent change in virus levels in 15 days
- Percent of wastewater samples with detectable virus

Show:
- Sites with no recent data
- Sites that started sampling after 12/12/21

Current virus levels in wastewater by site
This metric shows whether SARS-CoV-2 levels at a site are currently higher or lower than other sites. It is based on the most recent data from each site. Sites that have higher levels are ranked higher. This metric leads are the highest they have been in the site. Public health officials work for increasing levels of the virus in wastewater. Other and use these data to help make public health decisions.

Note: Sites begin collecting data at different times. Sites that begin collecting data later in the year may be ranked higher than sites that have been collecting data since the beginning of the pandemic. Sites that started reporting data on or before December 12, 2021. The data history for these new sites is not long enough to reflect the same surges as the other sites.



Select legend categories to filter points on the map.

- Very low
- Low to 10
- 10 to 25
- 50 to 75
- 75 to 90
- 90 to 100
- No recent data

Data Downloads and Footnotes
Select and download the data that interest you.

View History Wastewater Data

Data Table for Wastewater Surveillance Current Virus Levels (in %)

CDC's Centers of Disease Control to 2021-07-17 Wastewater Data Updated: December 13, 2022 07:00

Download Data

jurisdiction	County	Reporting Jurisdiction	County #	Population Served	Current Virus Level (in %)
Alabama	1064	Alabama	Lee	70,000	69.75
Alabama	1066	Alabama	Shelby	200,000	37.25
Alabama	1064	Alabama	Jefferson	85,000	70.14
Alabama	1064	Alabama	Jefferson	200,000	70.14
Alabama	1064	Alabama	Jefferson	150,000	70.14
Alabama	1064	Alabama	Jefferson	100,000	70.14
Alabama	1064	Alabama	Jefferson	50,000	70.14
Alabama	1774	Alabama	Jefferson	225,000	33.66
Alabama	1774	Alabama	Jefferson	225,000	33.66
Alabama	1066	Alabama	Shelby	75,000	37.25
Alabama	1066	Alabama	Shelby	75,000	37.25
Alabama	1774	Alabama	Jefferson	225,000	33.66
Alabama	1774	Alabama	Jefferson	225,000	33.66
Alabama	1066	Alabama	Shelby	75,000	37.25
Alabama	1066	Alabama	Shelby	75,000	37.25
Alabama	1774	Alabama	Jefferson	225,000	33.66

Georgia	1126	Fannin	26,605	74.07%
Georgia	1127	Dekalb	26,600	1.36%
Georgia	1128	Lowndes	65,693	.94
Georgia	1129	Gwinnett	105,080	1.05%
Georgia	1131	Pickens	26,979	1.00
Georgia	1132	Clarke	16,590	.50
Georgia	1134	Forsyth	36,565	new site
Georgia	1135	Jackson	26,599	new site
Georgia	1136	Gwinnett	105,080	new site
Georgia	1174	Glynn	279,709	81.07
Georgia	1176	Hancock	2,000	1.00
Georgia	1740	Carroll	94,000	75.4
Georgia	1741	Gilmer	26,000	74.07
Georgia	476	Gwinnett	157,197	.92
Georgia	1742	Bartow	76,000	1.00
Georgia	1744	Cobb	300,000	1.00
Georgia	1745	Newton	32,000	.91
Georgia	1746	Gwinnett	105,080	new site
Georgia	1748	Cobb	190,000	new site
Georgia	1749	Gwinnett	105,080	new site
Georgia	1843	Dougherty	100,000	74.77
Georgia	1844	Bartow	76,000	1.00
Georgia	1845	Fayette	100,000	75.00
Georgia	1846	Guam	8,000	80.5
Georgia	1847	Guam	8,000	80.5
Guam	1461	Guam	9,000	90.5
Guam	1462	Guam	9,000	90.5
Hawaii	798	Hawaii	Honolulu	48,519
Hawaii	799	Hawaii	Honolulu	48,519
Hawaii	1164	Hawaii	Honolulu	48,519
Hawaii	1175	Hawaii	Maui	52,000
Hawaii	1176	Hawaii	Maui	52,000
Hawaii	1203	Hawaii	Honolulu	300,000
Hawaii	1204	Hawaii	Honolulu	300,000
Hawaii	1205	Hawaii	Maui	49,000
Hawaii	1206	Hawaii	Honolulu	300,000
Hawaii	1207	Hawaii	Honolulu	300,000
Hawaii	1286	Hawaii	Kauai	6,000
Hawaii	1287	Hawaii	Hawaii	150,000
Idaho	1003	Idaho	Lewis	24,000
Idaho	1128	Idaho	Bonneville	105,000
Idaho	1129	Idaho	Kootenai	38,500
Idaho	1130	Idaho	Bannock	75,000
Idaho	1347	Idaho	Minidoka	6,000
Idaho	1348	Idaho	Ada	300,000
Idaho	1349	Idaho	Kootenai	38,500
Idaho	1367	Idaho	Twin Falls	48,501
Idaho	1368	Idaho	Brigham	105,000
Idaho	1228	Idaho	Caribou	5,000
Idaho	1229	Idaho	Blaine	20,000
Idaho	1408	Idaho	Ellsworth	1,000
Illinois	1000	Illinois	Cook	1,000,000
Illinois	1001	Illinois	Cook	1,000,000
Illinois	1002	Illinois	Cook	300,000
Illinois	1003	Illinois	Cook	300,000
Illinois	1004	Illinois	Cook	300,000
Illinois	1005	Illinois	Cook	300,000
Illinois	1006	Illinois	Cook	300,000
Illinois	1007	Illinois	Cook	300,000
Illinois	1008	Illinois	Du Page	40,000
Illinois	1009	Illinois	Du Page	40,000
Illinois	1010	Illinois	Du Page	40,000
Illinois	1011	Illinois	Du Page	40,000
Illinois	1012	Illinois	Du Page	40,000
Illinois	1013	Illinois	Cook	300,000
Illinois	1014	Illinois	Cook	300,000
Illinois	1015	Illinois	Cook	300,000
Illinois	1016	Illinois	Cook	300,000
Illinois	1017	Illinois	McHenry	76,811
Illinois	1018	Illinois	Effingham	41,000
Illinois	1019	Illinois	Clay	5,100
Illinois	1020	Illinois	Stephenson	27,000
Illinois	1021	Illinois	Knox	28,150
Illinois	1022	Illinois	Cook	300,000
Illinois	1023	Illinois	Cook	300,000
Illinois	1024	Illinois	Cook	300,000
Illinois

Nebraska	919	Adams	24,052
Nebraska	920	Douglas	1,000,000
Nebraska	921	Douglas, Sarpy	600,000
Nebraska	922	Douglas, Sarpy	600,000
Nebraska	923	Dakota	16,000
Nebraska	987	Dawson, Madison	27,000
Nebraska	988	Lincoln	20,000
Nebraska	1312	Nemaha	4,700
Nebraska	1320	Saunders	16,000
Nebraska	1331	York	8,000
Nebraska	1332	Seward	16,000
Nebraska	1333	Nemaha	4,700
Nebraska	918	Buffalo	53,790
Nebraska	924	Douglas	1,000,000
Nebraska	925	Lancaster	250,000
Nevada	926	Nevada	33,000
Nevada	931	Nevada	33,000
Nevada	1313	Washoe	250,000
Nevada	1314	Douglas	1,000,000
Nevada	1315	Nevada	33,000
New Hampshire	487	Hillsborough	400,000
New Hampshire	1316	Carroll	22,000
New Hampshire	1317	Hillsborough	400,000
New Hampshire	1318	Merrimack	6,000
New Hampshire	1319	Merrimack	40,000
New Hampshire	1320	Hillsborough	400,000
New Hampshire	1321	Hillsborough	400,000
New Hampshire	1322	Hillsborough	400,000
New Hampshire	1323	Hillsborough	400,000
New Hampshire

Texas	854	Texas	845,000
Texas	855	Texas	846,000
Texas	856	Texas	856,000
Texas	858	Texas	858,000
Texas	859	Texas	859,000
Texas	135	Houston	16,030
Texas	137	Houston	16,570
Texas	160	Houston	40,689
Texas	200	Houston	72,000
Texas	201	Houston	124,000
Texas	249	Houston	Harris, Montgomery
Texas	250	Houston	Harris
Texas	251	Houston	Harris
Texas	290	Houston	Harris
Texas	387	Houston	Harris
Texas	35	Houston	Harris
Texas	37	Houston	Harris
Texas	407	Houston	Harris
Texas	443	Houston	Harris
Texas	449	Houston	Harris
Texas	75	Houston	Harris
Texas	76	Houston	Harris
Utah	1017	Utah	Wasatch
Utah	1	Utah	Utah
Utah	1	Utah	Washington
Utah	23	Utah	Sanpete
Utah	25	Utah	Davis
Utah	49	Utah	Washington
Utah	29	Utah	Utah
Utah	30	Utah	Salt Lake
Utah	31	Utah	Utah
Utah	32	Utah	Tooele
Utah	34	Utah	Box Elder
Utah	4	Utah	Salt Lake
Utah	5	Utah	Davis
Utah	6	Utah	Salt Lake
Utah	7	Utah	Salt Lake
Utah	1,279	Utah	Tooele
Utah	10	Utah	Cache
Utah	11	Utah	Salt Lake
Utah	12	Utah	Salt Lake, Utah
Utah	13	Utah	Cache
Utah	14	Utah	Salt Lake
Utah	15	Utah	Salt Lake, Utah
Utah	16	Utah	Weber, Davis
Utah	17	Utah	Utah
Utah	18	Utah	Carbon
Utah	19	Utah	Utah
Utah	21	Utah	Duchesne
Utah	22	Utah	Sanpete
Utah	24	Utah	Davis
Utah	26	Utah	Utah
Utah	28	Utah	Salt Lake
Utah	29	Utah	Uintah
Utah	31	Utah	Utah
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Utah	96	Utah	Utah
Utah	97	Utah	Utah
Utah	98	Utah	Utah
Utah	99	Utah	Utah
Vermont	1,000	Vermont	Bennington
Vermont	1,751	Vermont	Chittenden
Vermont	1,760	Vermont	Windsor
Vermont	1,980	Vermont	Chittenden
Vermont	1,990	Vermont	Caledonia
Vermont	1,520	Vermont	Washington
Vermont	1,530	Vermont	Chittenden
Vermont	770	Vermont	Franklin
Virginia	892	Virginia	Greensville, Chesterfield, Prince George, Sussex, Dinwiddie, Colonial Heights City
Virginia	1,072	Virginia	Franklin
Virginia	1,218	Virginia	Pittsylvania City
Virginia	1,011	Virginia	Mathews, Gloucester, York
Virginia	1,108	Virginia	Wise
Virginia	1,107	Virginia	York
Virginia	1,110	Virginia	Norfolk City
Virginia	1,150	Virginia	Hanover
Virginia	1,170	Virginia	Pittsylvania
Virginia	1,175	Virginia	Fairfax City, Newport News City
Virginia	1,178	Virginia	Mecklenburg
Virginia	1,179	Virginia	Henry
Virginia	118	Virginia	Wise
Virginia	1,176	Virginia	Newport News City, Hampton City
Virginia	1,179	Virginia	Hampton City, Newport News City
Virginia	131	Virginia	Chesapeake City, Norfolk City, Virginia Beach City
Virginia	178	Virginia	Isle Of Wights, Suffolk City, Chesapeake City, Portsmouth City
Virginia	181	Virginia	Williamsburg City, Gloucester, James City, New Kent, James City
Virginia	229	Virginia	Bedford
Virginia	229	Virginia	Campbell, Amherst, Bedford
Virginia	262	Virginia	Albemarle
Virginia	263	Virginia	Frederick
Virginia	315	Virginia	Rockingham, Harrisonburg
Virginia	38	Virginia	Alexandria City, Fairfax
Virginia	48	Virginia	Montgomery
Virginia	410	Virginia	Prince William, Fauquier, Manassas Park City, Manassas City
Virginia	51	Virginia	Loudoun
Virginia	51	Virginia	Montgomery
Washington	1,100	Washington	King, Pierce
Washington	1,140	Washington	King, Snohomish
Washington	1,150	Washington	Clark
Washington	535	Washington	Snohomish
Washington	575	Washington	Snohomish
Washington	676	Washington	Snohomish, King
Washington	677	Washington	Snohomish
Washington	768	Washington	Snohomish
Washington	769	Washington	Yakima
Washington	1,189	Washington	Grant
Washington	1,190	Washington	Franklin
Washington	1,191	Washington	Whitman
Washington	753	Washington	Franklin
Washington	1,000	Washington	Spokane
Washington	1,084	Washington	Clark
Washington	1,087	Washington	Yakima
Washington	1,076	Washington	Chelan
Washington	1,077	Washington	Douglas
Washington	1,997	Washington	Pierce
Washington	1,998	Washington	Spokane
Washington	754	Washington	Benton
Washington	755	Washington	Benton
Washington	758	Washington	Benton
Washington	759	Washington	Spokane
Washington	760	Washington	Kitsap
Washington	1,000	Washington	Pierce
Washington	1,028	Washington	Kitsap
Washington	1,029	Washington	Mason
Washington	459	Washington	Kitsap
Washington	460	Washington	Kitsap
Washington	461	Washington	Kitsap
Washington	462	Washington	Wood
Washington	463	Washington	Harrison
Washington	730	Washington	Taylor
Washington	731	Washington	Barbour
Washington	1,251	Washington	Lewis
Washington	1,252	Washington	Putnam
Washington	1,266	Washington	Mineral
Washington	1,267	Washington	Mineral
Washington	466	Washington	Wood
Washington	467	Washington	Wayne, Cabell
Washington	912	Washington	Brooke
Washington	1,000	Washington	Clark
Washington	1,049	Washington	Rock
Washington	1,135	Washington	Waupaca
Washington	136	Washington	Chippewa, Eau Claire
Washington	137	Washington	Saint Croix
Washington	138	Washington	Dunn
Washington	232	Washington	Manitowoc
Washington	233	Washington	Marinette
Washington	239	Washington	Marathon, Wood
Washington	317	Washington	Marinette
Washington	318	Washington	Grant
Washington	319	Washington	Racine
Washington	344	Washington	Saint Croix, Pierce
Washington	364	Washington	Sheboygan
Washington	391	Washington	Dane
Washington	392	Washington	Vernon
Washington	44	Washington	Ashland
Washington	45	Washington	Jackson
Washington	696	Washington	Jefferson, Dodge
Washington	697	Washington	Columbia
Washington	128	Washington	Brown
Washington	129	Washington	Waukesha
Washington	164	Washington	Brown, Kewaunee
Washington	165	Washington	Washington, Dodge
Washington	166	Washington	Ozaukee
Washington	209	Washington	La Crosse
Washington	210	Washington	Columbia
Washington	243	Washington	Juneau
Washington	244	Washington	Sauk
Washington	248	Washington	Lincoln
Washington	249	Washington	Ozaukee, Milwaukee
Washington	257	Washington	Waukesha, Milwaukee, Washington, Ozaukee
Washington	260	Washington	Green
Washington	261	Washington	Jefferson, Waukesha
Washington	302	Washington	Winnebago
Washington	303	Washington	Outagamie
Washington	325	Washington	Columbia
Washington	326	Washington	Portage
Washington	392	Washington	Douglas
Washington	393	Washington	Outagamie, Menominee, Calumet
Washington	432	Washington	Waupaca
Washington	433	Washington	Marathon
Wyoming	1,000	Wyoming	Sweetwater
Wyoming	1,001	Wyoming	Sweetwater
Wyoming	1,017	Wyoming	Uinta

Terms to Know

Virus level: SARS-CoV-2 viral RNA concentration in wastewater. RNA is the virus's genetic material.

Population-weighted: Adjusted to account for the number of people who live in each sewershed. Values that are population-weighted provide a greater sense of how many sewershed residents are exposed to wastewater "noses" and helps account for things like changing population sizes or weather events that impact sewershed boundaries. Unless otherwise noted, all data presented on wastewater dashboards and in this report are population-weighted. CDC's National Wastewater Surveillance System (NWSS) uses the term "PMMoV normalized" in wastewater data for the same concept. See the NWSS Data Analysis page for more information.

Sewershed: The area contributing wastewater to a sampling location. Sewershed boundaries may cross county or state boundaries. Sewersheds are referred to as "sites" in the map.

About the Data

Data will update Monday through Friday as soon as they are reviewed and verified, oftentimes before 5 pm ET. Updates will not include Friday data when reporting concludes with a federal holiday. Note: Daily updates (Mon-Fri) might be delayed due to delays in reporting.

Percent of sites in each percent change category over time

- At any point in time, this chart shows what percent of sites reported decreased levels of virus in the wastewater, stayed relatively unchanged, and what percent reported increased levels of virus.
- Viewed over time, the chart shows how this distribution changes.
- The "Other" category includes sites with too little data to reliably be counted and divided by the total number of sampling sites with current data. This information is provided so readers can see what is driving the change in the percent of sites in each percent change category since January 1, 2021.
- The "Other" category in the chart on 1/1/2021 is all sites with too little data to report, the chart on 1/8/2021 is sites with too little to report for either category, and so on. The "Other" category is not the number of sampling sites has changed since January 1 2021, the total number of sites with current data is shown in the "Sites with data" chart.
- Not all sites have data since January 1, 2021, and not all sites have data for the most recent 15 days.
- The percent of sites in each percent change category for each date may not add up to 100% due to rounding.

Current virus levels in wastewater over time

- This metric shows whether SARS-CoV-2 levels at a site are currently higher or lower than past levels at the same site. It is calculated by first ordering the SARS-CoV-2 levels in wastewater for all samples collected at a site in the last 15 days, from lowest to highest. The 15 days are then divided into four quartiles (0%-25%, 26%-50%, 51%-75%, and 76%-100%), and the most recent SARS-CoV-2 levels are compared to these quartile ranges and breakpoints. The levels in the 0-25% group represent the lowest levels recently observed at this site, and the 76-100% group the highest levels.
- Using Standard Z-Score, CDC also is posting this for all sites meeting data quality and quantity criteria. Sites that begin reporting wastewater data after December 1, 2021 are not comparable to sites that have been reporting wastewater data since December 1, 2021 because there is not enough data for a site to be assigned to one of the quartiles when it first begins reporting.
- The "New site" category means a site just started collecting wastewater samples and has reported less than 15 samples, which is not enough samples to meaningfully compare levels at the site over time.

Percent change in the last 15 days

- This metric shows how much normalized SARS-CoV-2 viral levels in wastewater at each site increased or decreased over the last 15 days. Specifically, it shows the difference between the average SARS-CoV-2 in wastewater. Percent change compares past data to current data to show how changing trends. A large percent increase does not necessarily mean SARS-CoV-2 viral levels in wastewater are high. For example, if SARS-CoV-2 viral levels in wastewater were very low 15 days ago and are still very low, this could result in a very large percent change of 100%.
- Percent change is calculated as the modeled percent change over 15 days, based on linear regression of log-transformed data. Sites that begin reporting wastewater data after December 1, 2021 are not comparable to sites that have been reporting since December 1, 2021 because there is not enough data for a site to be assigned to one of the quartiles when it first begins reporting.
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- The "New site" category means a site just started collecting wastewater samples and has reported less than 15 samples, which is not enough samples to meaningfully compare levels at the site over time.

SARS-CoV-2 Coronaviruses in wastewater over time

- When a site is consistently reported, the SARS-CoV-2 concentration line is shown for the last 4 months, as data are available. The smoothed SARS-CoV-2 concentration line shows how SARS-CoV-2 levels in wastewater have changed over time, after accounting for day-to-day variability.
- At least 5 samples are required to produce the smoothed SARS-CoV-2 concentration line. A major change in laboratory methods is reported, only data since the new laboratory method was reported are shown. Data from sites that are not currently reporting are not shown. Sewersheds that are viewed with custom area filters may be unable to generate their trends lines.

Category change in the last 7 days

- This metric shows the change in the number of sites (represented as a percent) that are in a specific category compared to the previous week. For example, if 10% of sites had "decreasing" virus levels in the previous 7 days, in the current week, 5% more sites have been added or removed from this category in the past week. It is calculated by subtracting the current value for each category in the last 7 days from the previous week's value for that category. Positive numbers indicate an increase in the number of sites in the same category 7 days earlier.
- If a metric category had no sites in it 7 days earlier, the category change in the last 7 days is listed as "N/A" since you cannot divide by zero.

County level data

- Data are presented by sewershed for wastewater sampling sites contributing wastewater to a sampling location. Many sewersheds are contained within a county or county equivalent (for example, parishes in Louisiana or boroughs in Alaska). Sewersheds may cross county or state boundaries. This means multiple sewersheds may serve a single county, and a single sewershed may serve multiple counties. Sewersheds are referred to as "sites" in the map.

Sewershed locations

- Data are plotted in the ZIP code of the sampling location, so points on the map do not correspond to the exact sampling location.
- Sites with overlapping data for a sampling location are highlighted when the sampling location is selected.
- Sewershed of Columbia (DC) and New York City (NYC) are shown separately on the map to denote sampling locations in DC and NYC. In the "Sites in Territory" dashboard view, select "District of Columbia" or "New York City" to zoom in points reported within that jurisdiction. Please note some DC and NYC sewersheds extend into neighboring states. Data from these sewersheds are included in DC and NYC sampling locations may receive wastewater from parts of counties in surrounding states.

Data subject to change

- Wastewater Disease surveillance data presented are the best available data and are subject to change. Data are updated as new information is received. To view data that are expected to change most, select "Delay: All data are preliminary".

May 2022 Coverage Limitations

- Beginning April 15, 2022, approximately 150 wastewater sites in 29 states began transitioning to a new wastewater testing provider. During this transition, these sites will not have recent data displayed and will be unavailable for analysis. Data from these sites will be added back to the dashboard as soon as the entire dataset is ready for analysis. Results for these sites are expected to be available again between mid-May and June 2022.

Data not shown

- Data from sewersheds that serve fewer than 5,000 people.
- Data from wastewater where population was missing.
- Data from facility or institution-specific sampling locations.
- Data from sewersheds where the number of unique sampling sites are made anonymous using a minimum sampling threshold.
- Approximately 20% of US households are on septic systems, the exact percent varies by location. Wastewater data from these households and communities with septic systems are not shown. Therefore, households on septic systems are not represented in the data.
- Data from sewersheds currently being maintained but not published by health departments to CDC.
- Data from sewersheds with too little data to reliably report a trend or a change.
- Data from sewersheds may not be presented if there are data quality issues.

Data source

- Data displayed are derived from two sources:
- Data from sewersheds in the National Water Quality Initiative (NWQI) and 27 Health Departments participating in the National Wastewater Surveillance System. Participation is voluntary, so it is not representative of any reporting by CDC.
- Data from NWQI through a CDC-managed contract for commercial testing, which is intended to supplement the geographic coverage of the 27 health department sampling locations.

Laboratory methods

- SARS-CoV-2 coronaviruses in wastewater are measured using reverse transcription quantitative polymerase chain reaction (RT-qPCR) or reverse transcription digital polymerase chain reaction (RT-dPCR) methods. Laboratories use different methods to concentrate and extract virus from the wastewater, and to carry out sampling and sample analysis. Since SARS-CoV-2 coronaviruses enter sewers from across these sewersheds, concentration values should not be compared across sampling locations. Instead, the trends in virus levels should be compared between sampling locations because they are all from the same sewershed. These metrics are comparable across sewersheds. When testing a sewershed, SARS-CoV-2 is considered detected when any PCR replicate for the sample were positive. Results are reported as gene copies per liter of wastewater. Results from RT-dPCR are positive droplets/replicate. Learn more in the Resources page.

Data developed

- These data can be downloaded from data.cdc.gov: NWSS Public SARS-CoV-2 Wastewater Metric Data
- Data are updated on weekdays, except federal holidays.
- The data dictionary for these data is NWSS Public Analytics Data Dictionary.

Wastewater surveillance data

If it looks like virus levels in wastewater are rising in my community, what should I do?

Wastewater data can be used to inform public health actions in the sewershed(s) wastewater sites. Public health officials watch for sustained increasing levels of the virus in wastewater and use these data in combination with other data to inform decisions about public health actions. Contact your local and state health department to understand what data are available and what actions they are taking.

How do I build NWSS in my community?

Wastewater-based disease surveillance is an exciting new tool to help communities monitor their health. Visit https://www.cdc.gov/nwss/index.html to learn more about implementing a wastewater-based disease surveillance system.

Is there wastewater sampling in my community?

New sampling sites are being added over time to both disease-specific sampling and sampling for multiple pathogens. Wastewater data may not be available for your community if no one is currently conducting wastewater surveillance. If you would like to know if wastewater surveillance is happening in your community, please contact your local or state health department. Starting in June, CDC does not release the names of the wastewater treatment plants or zip codes where sampling sites are located. However, information on the sewersheds served by the wastewater sampling sites is provided.

Wondering what all the data mean?

CDC's COVIDView Weekly Review helps you stay up-to-date on interpretation of key data and trends.

How does wastewater surveillance work?

Wastewater viruses show changes in disease trends 1-2 days before hospital admissions. Learn more in clinical cases, and a single wastewater sample captures the infection status of thousands by millions of residents. Learn more: National Wastewater Surveillance System (NWSS).