Centers for Disease Control and Prevention

COVID Data Tracker

Maps, charts, and data provided by CDC, updates Mondays and Fridays by 8 p.m. ET

COVID-19 Home

Effective September 29, 2023, weekly updates to maps, charts, and data provided by CDC for COVID Data Tracker will occur on Fridays by 12 p.m. ET. This change aligns with the timing of CDC's weekly updates for respiratory viruses (https://www.cdc.gov/respiratory-viruses/index.html).

Note: As of September 15, 2023, testing data is temporarily unavailable from about 400 wastewater testing sites nationwide. A new contract is being implemented, and testing and reporting for affected sites is expected to resume shortly.

United States at a Glance Collapse

Trend in % Test Positivity
-1.2% in most recent week

Trend in % Emergency Department Visits
-14.5% in most recent week

Trend in Hospital Admissions
-6% in most recent week

Trend in % COVID-19 Deaths
+3.8% in most recent week

Total Hospitalizations
6,388,647

Total Deaths
1,145,958

CLICK TO VIEW OTHER PAGES:
Wastewater Surveillance

Wastewater Surveillance

COVID-19: Wastewater Surveillance

Communities can track the presence of SARS-CoV-2, the virus that causes COVID-19, in wastewater samples. These data can provide an early warning of COVID-19's spread in communities. For more information, visit the Wastewater Surveillance System page.

Monitoring Wastewater Surveillance Data

Wastewater surveillance for COVID-19 is a rapidly developing field. State, tribal, local, and territorial health departments participating in the National Wastewater Surveillance System (NWSS) submit testing data to CDC. CDC then standardizes and interprets these data and presents them in the COVID Data Tracker. How often sites collect wastewater samples and how frequently data 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's spread in a community. Learn more about wastewater data by exploring each of the charts and maps. To see a map of which SARS-CoV-2 variant is the most dominant at each wastewater sampling site, see CDC COVID Data Tracker: Summary of Variant Surveillance.

View information about the data and download the data.

On This Page

- Monitoring Wastewater Surveillance Data
- Wastewater Metric Chart
- Wastewater Metric Map
- Data Downloads
- Terms to Know
- About the Data

NWSS NATIONAL™ WASTEWATER SURVEILLANCE SYSTEM

Maps, charts, and data provided by CDC, updates Friday by 8pm ET†. This represents all wastewater data submitted directly to CDC's NWSS DCIPHER platform, with the exceptions described in the About the Data section below. Each dot on the map represents a site. A site can represent all or part of a "sewershed," which is the area contributing wastewater to a sampling location. Not all communities report wastewater data to CDC. Participation is voluntary, and wastewater samples are collected from sewer systems so communities that rely primarily on septic systems are not represented. In addition, some sites that submit data to NWSS are not represented on the map due to various factors, such as small population size or having facility-specific sampling.

View Footnotes and Download Data

Wastewater Metric Chart

This chart shows how much virus levels have changed (increased and decreased) over time at wastewater sites across the United States. It shows the percent of sites in each category of the percent change metric for each date among all sites with available data.

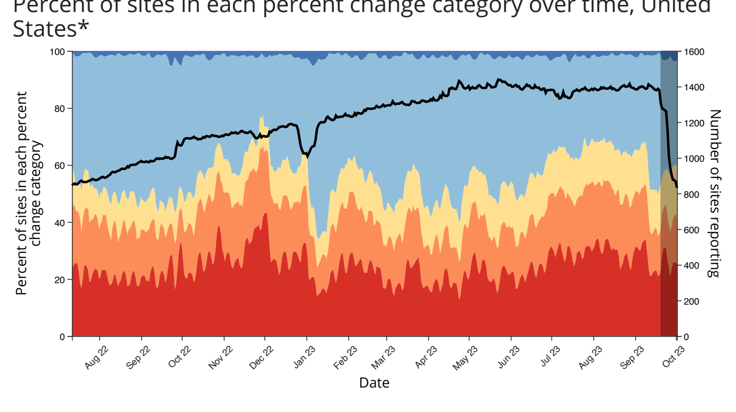
The percent change metric shows whether virus levels have increased or decreased at sites over the last 15 days.

- Blue categories (Large decrease (-100%); Decrease (-99% to -10%)): Virus levels decreased at these sites in the last 15 days.
- Yellow category (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 more area on the chart is shaded light or dark blue, it means virus levels were decreasing at more sites at that point in time. If more area on the chart is shaded red or orange, it means virus levels were increasing at more sites at that point in time. Since the percent change in the last 15 days metric may be affected by how many wastewater plants were collecting wastewater samples, the black line shows the number of sampling sites with available data for each date.

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

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



*The darker bar on the right side of the figure highlights the most recent 2 weeks, which may be subject to reporting delays. The actual number of sites reporting during those 2 weeks will likely increase as historical data are added.

Download

Wastewater Metric Map

State or territory: Select state or territory
County: Select state/territory to enable
Reset Selections

Time Period: Sep 18, 2023 – Oct 02, 2023

Major Cities On | Major Cities Off

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

Show:
- Sites with no recent data
- Sites that started sampling after 12/1/21

Current virus levels in wastewater by site
This metric shows whether SARS-CoV-2 levels at a site are currently higher or lower than past historical levels at the same site. 0% means levels are the lowest they have been at the site; 100% means levels are the highest they have been at the site. Public health officials watch for increasing levels of the virus in wastewater over time and use these data to help make public health decisions.

Note: Sites began collecting data at different times. Sites that began reporting wastewater data after December 1, 2021 are not comparable to sites that started reporting data on or before December 1, 2021. The data history for these new sites is not long enough to reflect the same surges as the other sites.

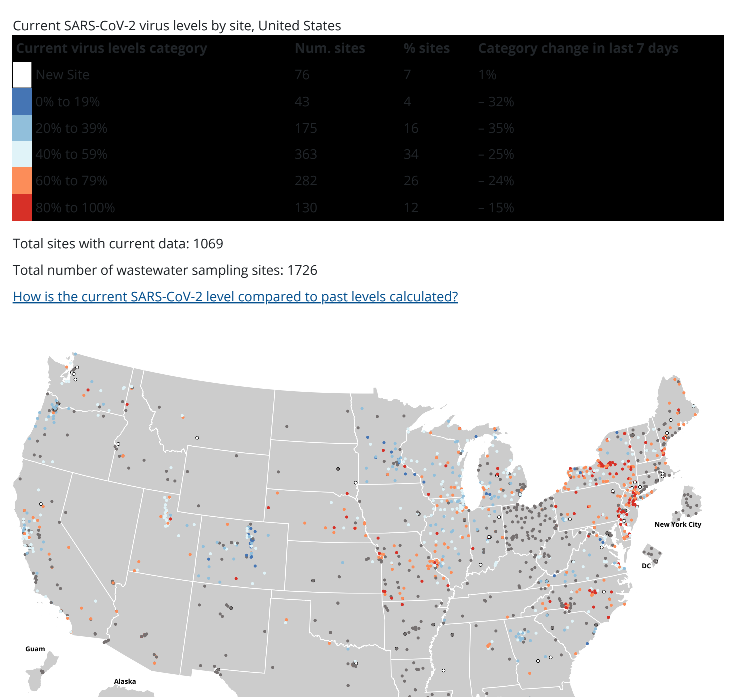
Current SARS-CoV-2 virus levels by site, United States

Current virus levels category	Num. sites	% sites	Category change in last 7 days
New Site	76	7	1%
0% to 19%	43	4	– 32%
20% to 39%	175	16	– 35%
40% to 59%	363	34	– 25%
60% to 79%	282	26	– 24%
80% to 100%	130	12	– 15%

Total sites with current data: 1069

Total number of wastewater sampling sites: 1726

How is the current SARS-CoV-2 level compared to past levels calculated?



Select legend categories to filter points on the map.

New site | 0% to 19% | 20% to 39% | 40% to 59% | 60% to 79% | 80% to 100% | No recent data

Download Map

Data Downloads and Footnotes

Expand each accordion to view data table and download data

View Historic Wastewater Data

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

CDC | Data as of: Tuesday, October 10, 2023 2:58 PM ET. Posted: Tuesday, October 10, 2023 4:33 PM ET

Download Data

Jurisdiction	Sewershed ID	Reporting Jurisdiction	County	Population Served	Current Virus Levels (in %)
Alaska	1158	Alaska	Anchorage	15,000	N/A
Alaska	1172	Alaska	Anchorage	200,000	N/A
Alabama	1394	Alabama	Shelby	11,000	N/A
Alabama	1464	Alabama	Lee	72,000	N/A
Alabama	1778	Alabama	Marshall	9,000	N/A
Arkansas	1461	Arkansas	Saline	35,000	N/A
Arkansas	1509	Arkansas	White	25,000	N/A
Arkansas	1536	Arkansas	Greene	29,000	N/A
Arkansas	1537	Arkansas	Benton	17,737	N/A
Arkansas	1544	Arkansas	Garland	92,000	new site
Arkansas	1544	Arkansas	Garland	92,000	N/A
Arkansas	1558	Arkansas	Hempstead	10,500	new site
Arkansas	1565	Arkansas	Ouachita	10,200	N/A
Arkansas	446	Arkansas	Pulaski	32,043	N/A
Arkansas	741	Arkansas	Mississippi	5,500	N/A
Arizona	1271	Arizona	Pima	23,000	N/A
Arizona	501	Arizona	La Paz	3,500	N/A
Arizona	808	Arizona	Mohave	37,500	N/A
California	1219	California	Lake	5,000	N/A
California	1288	California	El Dorado	40,000	N/A
California	1320	California	Ventura	230,000	N/A
California	1387	California	Monterey	250,000	N/A
California	1443	California	Imperial	50,000	N/A
California	1561	California	San Luis Obispo	6,500	N/A
California	2123	California	Monterey	15,000	N/A
California	2270	California	Santa Cruz	12,232	N/A
California	495	California	Santa Cruz	60,000	new site
California	495	California	Santa Cruz	60,000	N/A
California	506	California	Los Angeles, Ventura	100,000	N/A
California	564	California	Alameda	60,000	N/A
California	570	California	Sonoma	220,000	N/A
California	724	California	Contra Costa	215,394	N/A
California	793	California	San Luis Obispo	39,000	N/A
California	802	California	Santa Cruz	85,000	N/A
California	803	California	Santa Cruz	150,000	N/A
Colorado	1290	Colorado	Garfield	7,300	N/A
Connecticut	1079	Connecticut	New Haven	228,000	N/A
Connecticut	1163	Connecticut	New London	22,000	new site
Connecticut	1196	Connecticut	New Haven	19,500	N/A
Connecticut	1395	Connecticut	Fairfield	52,265	N/A
Connecticut	1618	Connecticut	Hartford	25,000	N/A
Connecticut	2003	Connecticut	Fairfield	45,878	N/A
Connecticut	291	Connecticut	Fairfield	75,000	N/A
Connecticut	771	Connecticut	Fairfield	120,000	N/A
Connecticut	806	Connecticut	Fairfield	65,000	N/A
Florida	1392	Florida	Hillsborough	180,000	N/A
Florida	1408	Florida	Orange, Seminole	85,700	N/A
Florida	1501	Florida	Alachua	100,000	N/A
Florida	1502	Florida	Alachua	100,000	N/A
Florida	1551	Florida	Palm Beach	300,000	N/A
Florida	1552	Florida	Leon	200,000	N/A
Florida	1606	Florida	Lee	76,800	new site
Florida	1631	Florida	Orange	50,000	N/A
Florida	511	Florida	Pinellas	103,000	N/A
Florida	574	Florida	Pinellas	220,000	N/A
Florida	706	Florida	Escambia	197,000	N/A
Georgia	476	Georgia	Richmond	197,191	N/A
Georgia	684	Georgia	Dekalb	325,000	N/A
Guam	1440	Guam	Guam	66,000	N/A
Guam	1446	Guam	Guam	8,000	N/A
Guam	1448	Guam	Guam	105,000	N/A
Hawaii	1175	Hawaii	Maui	52,000	N/A
Hawaii	1175	Hawaii	Maui	52,000	N/A
Hawaii	710	Hawaii	Kauai	10,000	N/A
Hawaii	710	Hawaii	Kauai	10,000	N/A
Hawaii	790	Hawaii	Honolulu	700,000	N/A
Hawaii	798	Hawaii	Honolulu	48,519	N/A
Iowa	1303	Iowa	Woodbury	102,000	N/A
Iowa	1447	Iowa	Mahaska	5,201	N/A
Iowa	1449	Iowa	Mahaska	6,357	N/A
Iowa	544	Iowa	Johnson	75,849	new site
Iowa	544	Iowa	Johnson	75,849	N/A
Illinois	546	Illinois	Kankakee	65,000	new site
Illinois	682	Chicago	Cook	265,000	N/A
Illinois	683	Chicago	Cook	161,000	N/A
Indiana	1267	Indiana	Kosciusko	21,600	N/A
Indiana	1273	Indiana	Dubois	16,000	new site
Indiana	1273	Indiana	Dubois	16,000	N/A
Indiana	1289	Indiana	Vigo	58,500	N/A
Indiana	1350	Indiana	Allen	315,000	N/A
Indiana	1918	Indiana	Tippecanoe	60,000	N/A
Indiana	828	Indiana	Hamilton	86,000	N/A
Kansas	1299	Kansas	Johnson	112,076	N/A
Kansas	1300	Kansas	Johnson	42,235	N/A
Kansas	1304	Kansas	Johnson	73,829	N/A
Kansas	807	Kansas	Ford	27,000	new site
Kansas	807	Kansas	Ford	27,000	N/A
Kansas	833	Kansas	Shawnee	50,000	N/A
Louisiana	1107	Louisiana	East Baton Rouge	262,326	N/A
Louisiana	1116	Louisiana	East Baton Rouge	99,712	N/A
Louisiana	1229	Louisiana	Rapides	60,000	N/A
Louisiana	1497	Louisiana	Jefferson	300,000	new site
Louisiana	1615	Louisiana	Saint Tammany	15,000	N/A
Louisiana	1626	Louisiana	Jefferson	100,000	N/A
Louisiana	1633	Louisiana	Lafayette	40,000	new site
Louisiana	1633	Louisiana	Lafayette	40,000	N/A
Louisiana	1650	Louisiana	Lafayette	27,000	new site
Louisiana	1650	Louisiana	Lafayette	27,000	N/A
Louisiana	1651	Louisiana	Lafayette	10,000	new site
Louisiana	1652	Louisiana	Lafayette	47,000	new site
Louisiana	1652	Louisiana	Lafayette	47,000	N/A
Louisiana	1659	Louisiana	Jefferson	100,000	N/A
Louisiana	727	Louisiana	Orleans	998,000	N/A
Massachusetts	1330	Massachusetts	Worcester	3,000	N/A
Massachusetts	1495	Massachusetts	Worcester	42,000	N/A
Massachusetts	470	Massachusetts	Hampden	55,000	N/A
Maryland	1261	Maryland	Anne Arundel	91,000	N/A
Maryland	1261	Maryland	Anne Arundel	91,000	N/A
Maryland	1262	Maryland	Anne Arundel	11,000	N/A
Maryland	1268	Maryland	Anne Arundel	150,000	new site
Maryland	1284	Maryland	Anne Arundel	78,000	N/A
Maryland	1348	Maryland	Charles	88,500	N/A
Maryland	547	Maryland	Howard	270,000	N/A
Maine	1206	Maine	York	21,000	N/A
Maine	1302	Maine	York	21,000	N/A
Maine	2360	Maine	York	17,000	N/A
Maine	347	Maine	Knox	7,000	N/A
Maine	560	Maine	Sagadahoc	8,514	N/A
Maine	716	Maine	Cumberland	8,500	N/A
Minnesota	783	Minnesota	Ramsey, Anoka, Dakota, Hennepin, Washington	1,950,000	N/A
Minnesota	849	Minnesota	Hennepin, Carver, Scott	300,000	N/A
Missouri	1559	Missouri	Jefferson	12,500	new site
North Carolina	1148	North Carolina	Surry	10,000	N/A
North Carolina	1220	North Carolina	Rowan	31,536	N/A
North Carolina	1223	North Carolina	Rowan	22,940	N/A
North Carolina	537	North Carolina	Stanly	20,000	N/A
North Carolina	569	North Carolina	Greene, Lenoir	20,484	N/A
North Dakota	1463	North Dakota	Grand Forks	67,000	N/A
North Dakota	1471	North Dakota	Stark	25,679	N/A
New Hampshire	285	New Hampshire	Carroll	25,000	N/A
New Hampshire	497	New Hampshire	Merrimack	43,000	N/A
New Jersey	1616	New Jersey	Monmouth	40,000	N/A
New Mexico	1386	New Mexico	Los Alamos	13,000	N/A
New Mexico	764	New Mexico	Bernalillo, Sandoval	650,000	N/A
New Mexico	854	New Mexico	Los Alamos	5,852	N/A
Nevada	1082	Nevada	Clark	984,000	N/A
Nevada	554	Nevada	Washoe	200,000	N/A
Nevada	663	Nevada	Clark	265,000	N/A
Nevada	703	Nevada	Clark	650,000	N/A
Nevada	777	Nevada	Clark	246,258	N/A
New York City	498	New York City	Bronx	684,569	N/A
New York City	500	New York City	New York	588,772	N/A
New York City	505	New York City	Queens	410,812	N/A
New York City	509	New York City	New York	588,772	N/A
New York City	541	New York City	Kings	596,326	N/A
New York City	549	New York City	Kings	1,068,012	N/A
New York City	551	New York City	Kings	758,007	N/A
New York City	552	New York City	Richmond	198,128	N/A
Oklahoma	1264	Oklahoma	Carter	25,000	N/A
Oklahoma	767	Oklahoma	Garfield	51,000	N/A
Oklahoma	831	Oklahoma	Beckham	11,500	N/A
Pennsylvania	1081	Pennsylvania	Montgomery	13,000	N/A
Pennsylvania	1083	Pennsylvania	Montgomery	10,000	N/A
Pennsylvania	125	Pennsylvania	Allegheny, Butler	41,000	N/A
Pennsylvania	1454	Pennsylvania	Bucks	55,000	new site
Pennsylvania	1617	Pennsylvania	Lackawanna	88,000	N/A
Rhode Island	1134	Rhode Island	Kent	60,224	N/A
Rhode Island	1224	Rhode Island	Kent	33,000	N/A
Rhode Island	464	Rhode Island	Providence	240,000	N/A
Rhode Island	548	Rhode Island	Providence	120,000	N/A
Rhode Island	565	Rhode Island	Kent	6,000	N/A
Rhode Island	565	Rhode Island	Kent	6,000	new site
Rhode Island	677	Rhode Island	Bristol	21,100	N/A
South Carolina	1265	South Carolina	Georgetown	12,000	N/A
South Carolina	1541	South Carolina	Horry	30,000	new site
South Carolina	1541	South Carolina	Horry	30,000	N/A
South Carolina	1549	South Carolina	Greenville	140,280	N/A
South Carolina	599	South Carolina	Greenwood	12,000	N/A
South Dakota	1266	South Dakota	Lincoln, Minnehaha	215,000	N/A
South Dakota	1266	South Dakota	Minnehaha, Lincoln	215,000	new site
South Dakota	672	South Dakota	Pennington	80,000	N/A
Tennessee	1282	Tennessee	Davidson, Rutherford, Williamson	600,000	N/A
Tennessee	1323	Tennessee	Shelby	300,000	N/A
Tennessee	1445	Tennessee	Sumner	45,000	N/A
Tennessee	1607	Tennessee	Chester	3,710	N/A
Texas	1131	Texas	Kaufman	138,700	N/A
Texas	1140	Texas	Travis	500,000	new site
Texas	1141	Texas	Travis	510,000	N/A
Texas	1231	Texas	Dallas	500,000	N/A
Texas	1752	Texas	Tarrant	1,200,000	N/A
Texas	2043	Texas	Dallas	313,164	N/A
Texas	2374	Texas	Andrews	13,276	N/A
Texas	566	Texas	El Paso	143,000	new site
Texas	566	Texas	El Paso	143,000	N/A
Texas	667	Texas	Galveston	26,400	N/A
Texas	673	Texas	El Paso	436,000	N/A
Texas	681	Texas	El Paso	142,000	N/A
Texas	709	Texas	El Paso	170,000	N/A
Texas	865	Texas	Webb	120,000	N/A
Texas	867	Texas	Webb	140,000	N/A
Virginia	1160	Virginia	Hanover	20,000	N/A
Virginia	1198	Virginia	Wise	9,340	N/A
Virginia	1218	Virginia	Petersburg City	30,000	N/A
Virginia	892	Virginia	Colonial Heights City, Petersburg City, Prince George, Chesterfield, Dinwiddie	65,000	N/A
Vermont	1157	Vermont	Bennington	15,000	N/A
Vermont	1751	Vermont	Chittenden	22,000	N/A
Vermont	1753	Vermont	Windsor	4,500	N/A
Vermont	2267	Vermont	Chittenden	10,000	N/A
Washington	1142	Washington	King, Snohomish	789,000	N/A
Washington	499	Washington	Clark	162,100	N/A
Washington	555	Washington	Snohomish	20,000	N/A
Washington	661	Washington	Snohomish	37,650	N/A
Washington	676	Washington	Snohomish, King	288,000	N/A
Washington	676	Washington	Snohomish, King	288,000	N/A
Washington	679	Washington	Snohomish	7,125	N/A
Washington	768	Washington	Snohomish	173,800	N/A
Wisconsin	1277	Wisconsin	Dane	360,000	N/A

Wyoming	1253	Wyoming	Sheridan
Wyoming	1254	Wyoming	Teton
Arizona	1004	Arizona	Yuma
Arizona	1005	Arizona	Yuma
Arizona	1010	Arizona	Yuma
Arizona	1011	Arizona	Yuma
Arizona	1012	Arizona	Yuma
Arizona	1013	Arizona	Yuma
Arizona

Zip	City	County	Population
270	Ware	Hampden	35,000
271	Otis	Hampden	27,000
272	Palmer	Hampden	12,000
273	Amherst	Hampshire	34,000
280	Ware	Cache	86,713
281	Ware	Jefferson	17,064
422	Ohio	Trumbull	18,874
430	Ohio	Hardin	7,000
45	Ohio	Fulton	6,000
46	Ohio	Hardin	7,000
47	Ohio	Washington	47,000
48	Ohio	Ashtabula	31,430
49	Ohio	Athens	20,036
67	Ohio	Wood	26,073
68	Ohio	Williams	9,000
74	Ohio	Crawford	12,362
75	Ohio	Carroll	10,000
76	Ohio	Lorain	8,000
88	Ohio	Pickaway	12,983
89	Ohio	Lorain	21,000
929	Oregon	Linn	17,795
930	Oregon	Gilliam	11,204
932	Oregon	Deschutes	10,950
933	Oregon	Lane	10,000
934	Oregon	Lincoln	10,000
938	Oregon	Lincoln	24,128
939	Oregon	Lincoln	10,400
941	Oregon	Marion	20,275
942	Oregon	Washington	5,900
948	Oregon	Wasco	15,276
949	Oregon	Josephine	17,000
952	Oregon	Yamhill	7,900
953	Oregon	Lane	10,000
954	Oregon	Coos	9,975
958	Oregon	Wallowa	13,166
959	Oregon	Jefferson	13,279
960	Oregon	Clackamas	12,000
961	Oregon	Lane	20,000
113	Houston	Harris	3,975
114	Houston	Harris	10,000
115	Houston	Harris	10,000
1503	Texas	Denton	19,820
1504	Texas	Harris	4,010
1507	Houston	Harris	12,992
1508	Houston	Harris	10,000
200	Houston	Harris	20,008
201	Houston	Harris	20,000
202	Houston	Harris	300,227
203	Houston	Harris	37,014
204	Houston	Harris, Fort Bend	20,000
206	Houston	Harris	10,000
207	Houston	Harris	10,000
208	Houston	Harris	10,000
209	Houston	Harris	10,000
210	Houston	Harris, Fort Bend	20,000
211	Houston	Harris	10,000
212	Houston	Harris	10,000
213	Houston	Harris	10,000
214	Houston	Harris	10,000

Virginia	1338	Virginia	Mecklenburg	5,300
Vermont	1339	Vermont	Perry	16,000
Vermont	1340	Vermont	Chittenden	27,200
Vermont	1341	Vermont	Franklin	27,000
Vermont	1342	Vermont	Chittenden	27,000
Vermont	1343	Vermont	Chittenden	26,000
Vermont	1344	Vermont	Chittenden	8,500
Vermont	1345	Vermont	Franklin	1,500
Washington	1346	Washington	Clark	120,000
Washington	1347	Washington	Clark	120,000
Washington	1348	Washington	Pierce	120,000
Washington	1349	Washington	Pierce	120,000
Washington	1350	Washington	Clark	81,100
Washington	1351	Washington	Clark	81,100
Wisconsin	1352	Wisconsin	Sheboygan	12,000
Wyoming	1353	Wyoming	Sweetwater	12,000
Wyoming	1354	Wyoming	Fremont	25,000
Arizona	1355	Arizona	Yuma	8,211
Arizona	1356	Arizona	Yuma	8,211
Arizona	1357	Arizona	Yuma	15,300
Arizona	1358	Arizona	Maricopa	10,078
Arizona	1359	Arizona	Pima	17,000
Arizona	1360	Arizona	Maricopa	9,400
Arizona	1361	Arizona	Maricopa	9,400
Arizona	1362	Arizona	Maricopa	10,542
Arizona	1363	Arizona	Pima	10,000
Arizona	1364	Arizona	Graham	25,000
California	1365	California	Sonoma	1,000
California	1366	California	Contra Costa	104,000
California	1367	California	Plumas	4,217
California	1368	California	Sacramento	25,000
California	1369	California	San Joaquin	500,000
California	1370	California	San Joaquin	500,000
California	1371	California	Los Angeles	3,500,000
California	1372	California	Los Angeles	3,500,000
California	1373	California	Santa Barbara	17,000
California	1374	California	Butte	40,000
California	1375	California	Los Angeles	131,200
California	1376	San Diego	San Bernardino	250,000
California	1377	California	Kern	108,700
California	1378	California	Kern	108,700
California	1379	California	Kern	108,700
California	1380	California	Kern	108,700
California	1381	California	Tulare	12,000
California	1382	California	Tulare	12,000
California	1383	California	Tulare	12,000
California	1384	California	Tulare	12,000
California	1385	California	Tulare	12,000
California	1386	California	Tulare	12,000
California	1387	California	Tulare	12,000
California	1388	California	Tulare	12,000
District of Columbia	1389	District Of Columbia	Washington	15,000
District of Columbia	1390	District Of Columbia	Washington	15,000
District of Columbia	1391	District Of Columbia	Washington	15,000
District of Columbia	1392	District Of Columbia	Washington	15,000
District of Columbia	1393	District Of Columbia	Washington	15,000
District of Columbia	1394	District Of Columbia	Washington	15,000
District of Columbia	1395	District Of Columbia	Washington	15,000
Florida	1396	Florida	Orange	15,000
Florida	1397	Florida	Palm Beach	10,000
Florida	1398	Florida	Lee	10,000
Florida	1399	Florida	Hillsborough	10,000
Florida	1400	Florida	Hillsborough	10,000
Florida	1401	Florida	Hillsborough	10,000
Florida

1	Nassau	1,356,924	7.1%
2	Suffolk	1,328,837	7.0%
3	Westchester	1,004,457	5.3%
4	Erie	919,040	4.8%
5	Monroe	744,344	3.9%
6	Onondaga	467,026	2.4%
7	Albany	305,506	1.6%
8	Orange	384,611	2.0%
9	Rockland	325,789	1.7%
10	Saratoga	229,314	1.2%
11	Schenectady	154,727	0.8%
12	Oneida	232,270	1.2%
13	Dutchess	293,244	1.5%
14	Broome	191,067	1.0%
15	Ulster	181,851	1.0%
16	Rensselaer	159,928	0.8%
17	Tompkins	105,740	0.6%
18	Chautauqua	127,657	0.7%
19	Cayuga	76,756	0.4%
20	Clinton	79,843	0.4%
21	Essex	39,851	0.2%
22	Franklin	50,799	0.3%
23	Hamilton	4,836	0.0%
24	Herkimer	60,519	0.3%
25	Jefferson	116,775	0.6%
26	Lewis	26,146	0.1%
27	Livingston	62,314	0.3%
28	Madison	73,442	0.4%
29	Montgomery	49,708	0.3%
30	Ontario	109,755	0.6%
31	Schuyler	18,343	0.1%
32	Seneca	34,314	0.2%
33	Steuben	95,843	0.5%
34	Wayne	91,070	0.5%
35	Wyoming	39,369	0.2%
36	Yates	24,621	0.1%
37	Cattaraugus	76,117	0.4%
38	Allegany	46,456	0.2%
39	Chemung	84,390	0.4%
40	Genesee	57,076	0.3%
41	Greene	47,188	0.2%
42	Lewis	26,146	0.1%
43	Otsego	58,987	0.3%
44	Schoharie	31,582	0.2%
45	Sullivan	77,547	0.4%
46	Tioga	48,226	0.2%
47	Warren	65,707	0.3%
48	Washington	61,042	0.3%
49	Wyoming	39,369	0.2%
50	Yates	24,621	0.1%
51	Bronx	1,472,654	7.7%
52	New York	1,694,251	8.9%
53	Kings	2,559,903	13.4%
54	Queens	2,253,858	11.8%
55	Richmond	495,747	2.6%
56	Total	19,118,001	100.0%

Terms in Know

Wind Speed: CDC and Wind Institute of Environmental Health Hazards in the United States

Wind Speed is a measure of how fast the air is moving. It is determined by differences in temperature, air pressure, and the amount of moisture in the air. Wind speed is measured in miles per hour (mph). Meteorologists measure wind speed using a device called an anemometer. Wind speed is a factor in how quickly a fire spreads and how far it spreads. Strong winds can also blow embers and other burning materials from a fire into other areas, which can start new fires. Wind speed is also a factor in how quickly and in what direction smoke from a fire moves.

Wind Direction is the geographic area contributing wastewater to a sampling location. Sewersheds may cross county or state boundaries. Sewersheds are referred to as "basin" on the map.

About the Data

"Data will update weekly on Friday as soon as reports are received and verified, otherwise before 4 pm ET. Updates will occur the following day when reporting delays are expected. Data are based on the date the laboratory reported the result, not the date the test was performed."

Percent of sites in each percent change category over time

- Percent of sites in each percent change category over time is calculated separately for each of the previous 15 days, which percent change in wastewater data is calculated for each sewershed.
- Viewed over time, the chart shows how this distribution changes.
- Sites are grouped into percent change categories based on the percent change in wastewater data from the sewershed to which the sewershed is assigned. The information is aggregated to the sewershed level because the sewershed is the smallest geographic area for which a percent change category is assigned.
- The categories "Decreasing", "Stable", and "Increasing" were combined into "-9% to 9%," and the "100% to 899%" and "900% to 9,999%" percent change categories were combined into "100% to 9,999%" because the number of sewersheds in the percent change categories 100% and greater fluctuate from day to day. The number of sites with current data is shown on a black line on the chart.
- Sewersheds are included in the calculation for a given day if they have had at least two samples with at least one detect in the current and previous 14 days. Sewersheds are included in the calculation for a given day if they have had at least two samples with at least one detect in the current and previous 14 days.

Current virus levels in wastewater by site

- This metric shows where SARS-CoV-2 RNA levels at a site are currently higher than at any previous time at the same site. It is calculated by comparing the most recent 15 days of data to all previous data at the same site. Sewersheds are included in the calculation for a given day if they have had at least two samples with at least one detect in the current and previous 14 days. Sewersheds are included in the calculation for a given day if they have had at least two samples with at least one detect in the current and previous 14 days.
- Using December 1, 2021 as a starting date for all sites makes data more comparable between sites. Sites that began reporting wastewater data after December 1, 2021 will have less data points than sites that began reporting before December 1, 2021. Sites that have been reporting for less than 15 days will not have a "current" value because there is not enough data to calculate a current value.
- The "time ago" category means a site just started collecting wastewater samples and has reported fewer than 15 samples, which is not enough samples to be meaningful to compare to previous data.

Percent change in the last 15 days

- Percent change in the last 15 days is calculated SARS-CoV-2 viral levels in wastewater at each site increased or decreased during the current 15 day time period. The time period for which percent change is calculated is the most recent 15 days for which wastewater data is available. Sites with fewer than 15 days of data are not included in the calculation. Percent change is calculated as the ratio between the most recent 15 days of data and the previous 15 days of data.
- Percent change is calculated as the smoothed change over 15 days, based on linear regression of log-transformed SARS-CoV-2 RNA. A site with a percent change of 0% indicates that the SARS-CoV-2 RNA in wastewater samples from that site has not changed over the last 15 days. A site with a percent change of 100% indicates that the SARS-CoV-2 RNA in wastewater samples from that site has doubled over the last 15 days.

Percent of wastewater samples with detectable virus in the last 15 days

- This metric shows how often SARS-CoV-2 RNA was detected in wastewater samples at a site during the last 15 days. It is calculated by dividing the most recent 15 days of data with quantifiable SARS-CoV-2 RNA over the last 15 days. It does not include data from the most recent day of data, because this data may be incomplete with a delay before it is reported.
- Percent change is calculated as the smoothed change over 15 days, based on linear regression of log-transformed SARS-CoV-2 RNA. A site with a percent change of 0% indicates that the SARS-CoV-2 RNA in wastewater samples from that site has not changed over the last 15 days. A site with a percent change of 100% indicates that the SARS-CoV-2 RNA in wastewater samples from that site has doubled over the last 15 days.

County-level data

- Data are presented by sewershed that geographically cover contributing wastewater to a sampling location. Sampling locations may be at wastewater treatment plants or at other points in the wastewater collection system. Sewersheds may cross county or state boundaries. Data are presented here as county-level data, based on what sewersheds have sampling sites located in each county. Sewersheds may contribute wastewater to more than one county.

Sewershed locations

- Sewersheds are shown on the ZIP code of the sampling location, so points on the map do not correspond exactly to sampling locations.
- All counties represented by a contributing location are highlighted when the sampling location point is selected.
- Sewersheds are shown on the map as points, not as the full geographic area that they cover, because the geographic boundaries of CDC and NWSS are not the "basin" or "sewershed" boundaries. Contact the State or Territorial Health Department for more information about the geographic boundaries of sewersheds in your state.
- Sewersheds. Please note some CDC sampling locations may represent wastewater from parts of counties in Virginia or Maryland and some counties in Virginia and Maryland may contribute to more than one sewershed.

Data subject to change

- Data are presented as the most recent available data presented and the best available data and are subject to change. These data may be incomplete for the most recent days of data, and may be updated as more data are received and processed.

May 2022 Coverage Limitations

- Reporting from CDC's National Wastewater Surveillance System includes 41 ZIP Code-level sewersheds covering 11 new wastewater testing sites. During the transition, these sites will not have recent data displayed and will be colored gray on the map. It will take several weeks for sewersheds to have enough data to be displayed on this page. Results for these sites are expected to be available again between mid-May and June.

Data sources

- Data are sourced from the current NWSS data set. Data are updated daily.
- Data from sewersheds where preprocessed estimates are missing
- Data from sewersheds with fewer than 15 days of data
- Wastewater treatment plant-level estimates are of upstream sampling sites are made anonymous using a consistent, arbitrary transformation.
- Wastewater SARS-CoV-2 RNA, hospitalizations and vaccinations are weekly, sewershed-level, and are sourced from the NWSS data set. Wastewater data are updated weekly on Fridays. Hospitalizations and vaccinations are updated weekly on Wednesdays.
- Data from sewersheds currently being monitored but not submitted for hospitalizations to CDC. Certain communities collect hospitalization data but do not submit it to the CDC.
- Hospitalization data are from the NHSN. Data are updated weekly.

Data sources

- Data are collected and derived from two sources:
- Wastewater SARS-CoV-2 RNA data are from the CDC and partnered STLT Health Departments participating in the National Wastewater Surveillance System. Participation is voluntary, so not all jurisdictions are reporting to CDC.
- Hospitalization data are from the National Healthcare Safety Network (NHSN). Hospitalization data is intended to supplement the geographic coverage of the CDC wastewater data, and is not a measure of hospitalizations due to COVID-19.

Laboratory methods

- SARS-CoV-2 concentrations in wastewater are measured using reverse transcriptase quantitative polymerase chain reaction (RT-qPCR) to reverse transcription digital polymerase chain reaction (RT-dPCR). Laboratory processing and quantification methods may vary between laboratories. Laboratory methods are described in detail in the NWSS Laboratory Methods Implementation Guide. Laboratory methods, including concentration values should not be compared across sampling locations. Viral concentration values are reported in gene copies per liter of wastewater and current levels compared to past levels at the same site are presented. These metrics are more comparable across lab methods. When comparing across sites, it is important to consider the population served by each wastewater treatment plant, the sewershed, and the wastewater flow rate. Contact your State or Territorial Health Department for more information about the laboratory methods used in your state. Laboratory methods are in the Wastewater Surveillance Testing Methods page.

Data Resources

- These data can be downloaded from data.cdc.gov: NWSS Public SARS-CoV-2 Wastewater Metrics and NWSS Public SARS-CoV-2 Wastewater Sewershed Locations
- Technical assistance for these data is available at nwss@cdc.gov
- To request detailed wastewater data, including a full time history of raw concentrations, email nwssdata gov with the subject line NWSS public data request. Please include your name, organization, and intended use.

How does wastewater surveillance work?

Wastewater data can show changes in disease trends. It is a data before those changes in trends are seen in clinical cases, and a single wastewater sample can show the presence of many diseases at the community level. Wastewater surveillance is a powerful tool for understanding human health.

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

Wastewater surveillance data can be used to prepare for increased disease in your community.

Public health officials watch for sustained increases in the virus in wastewater and use these data to inform public health decisions and to prepare for and respond to a variety of ways and use the information regarding wastewater to understand the local COVID-19 situation and decide how to respond.

How do I build NWSS in my community?

Wastewater surveillance can be implemented by state and local public health communities monitor their health. Find information on what to consider when implementing a wastewater-based disease surveillance system.

Is there wastewater sampling in my community?

Sewer sampling sites are being added over time as health departments begin sampling and reporting wastewater surveillance data. Contact your state health department for information about wastewater surveillance in your community. Find information about wastewater surveillance is happening in your community, contact your health department or local governments. At this time, CDC does not recommend sampling from individual homes or buildings or codes where sampling sites are located. Disease information on the counties served by the wastewater sampling sites is available.

COVID Data Tracker
Weekly Review

Sign up to receive the COVID Data Tracker Weekly Review.

Email Address (optional)

Submit

What's this?

Cite COVID Data Tracker
Centers for Disease Control and Prevention. COVID Data Tracker. Atlanta, GA: U.S. Department of Health and Human Services, CDC. Updated [illegible]. Accessed [illegible].

COVID-19 Home >
All COVID-19 topics including prevention, travel, work, and schools