COVID Data Tracker

Maps, charts, and data provided by CDC, updates Monday, and Friday by 8 p.m. ET.

Note As of December 15, 2022, data is temporarily unavailable from about 400 wastewater testing sites nationwide, a new source is being implemented, and testing and reporting for affected sites is expected resume shortly.

United States of America

Collapse

Trend in Tests Positivity	Trend in % Emergency Department Visits	Trend in % Hospital Admissions
0.0% to case cases week	0.0% to case cases week	0.0% to case cases week
Trend in Hospital Beds Occupied	Trend in % COVID-19 Deaths	
0.0% to case cases week	No change in trend last week	
Total Hospitalizations 1,191,000	Total Deaths 1,151,000	

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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 spread in communities, for more information, visit the Wastewater Surveillance home 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 cities collect wastewater samples and how frequently samples are tested for a variety of reasons including by health department.

Wastewater surveillance data are intended to be used with other COVID-19 surveillance data to better understand COVID-19 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: Variants of Concern Nationwide.

View information about the data and download the data.

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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 COVID-19 platform, with the exceptions described in the About the data below. Each dot on the map represents a site. It does not represent all of a city's wastewater. Sampling sites are assigned to represent sewersheds covering a varying number. Not all communities report wastewater data at all sites. Participation in voluntary and wastewater samples are collected from sewer systems so communities. Wastewater data can be used to understand the presence of SARS-CoV-2 in communities. Wastewater data is NWSS are not represented on the map, because collecting wastewater samples, the basic first stepwater can 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. The percent change in virus levels in each sampling site is calculated separately for each date among all sites with available data.

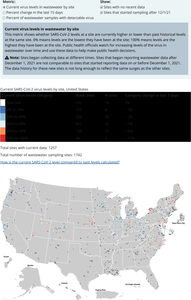
The percent change measures whether virus levels have increased or decreased at sites over the last 15 days.

- 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 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 sites in the chart is stable that's a good sign. But, it means virus levels were decreasing at more sites at that point in time. If more sites are in the chart is stable and red or orange, it means virus levels were increasing at more sites at that point in time. Because CDC is adding sites to the NWSS system and not all sites have been collecting wastewater samples since collecting wastewater samples, the back line shows the number of sampling sites with available data for all dates.

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 data those 2 weeks will likely increase as historical data are added.

Download

Wastewater Metric Map

State or territory: Select a state or territory to enable

County: Select a county to enable

Reset Selections

Time Period: Oct 16, 2023 - Oct 30, 2023

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

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

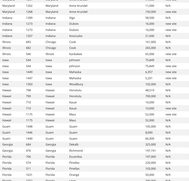
Major Cities On | Major Cities Off

Current virus levels in wastewater by site

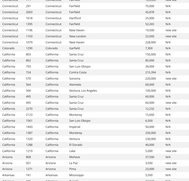
This metric shows whether SARS-CoV-2 levels at a site are currently higher or lower than past historical levels at that site. Sites with at least 3 years of data are included in the map. Sites with more recent data are highlighted they have been at the site. Public health officials watch for increasing levels of the virus in wastewater over time and use these data to help make public health decisions.

Note Data 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 sites is not long enough to reflect the same surges as the other sites.

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



Total sites with current data: 127
Total number of wastewater sampling sites: 1,710
How is the current SARS-CoV-2 level compared to past levels calculated?



Data Downloads and Footnotes

Expand each section to view data and download.

View Historic Wastewater Data

Data for Wastewater Surveillance Current Virus Levels (in %)

Download Table

CDC = Centers for Disease Control; = Centers for Disease Control; Percent change is based on the last 15 days.

Jurisdiction	Sewershed ID	Reporting Jurisdiction	County	Population	Current Virus Level (%)
Alabama	1000	Alabama	Jefferson	658,466	N/A
Alabama	1001	Alabama	Marshall	148,048	N/A
Alabama	1350	Alabama	Allen	215,906	N/A
Alabama	1351	Alabama	Tuscaloosa	65,000	N/A
Alabama	828	Alabama	Hamilton	80,000	N/A
Alabama	1352	Alabama	Lee Auburn	150,000	N/A
Alabama	1353	Alabama	Mobile	45,000	N/A
Alabama	1354	Alabama	Johnson	73,424	N/A
Alabama	1355	Alabama	Lee	150,000	N/A
Kansas	487	Kansas	Ford	27,000	N/A
Kansas	1356	Kansas	Saint Tomas	15,000	N/A
Kansas	1357	Kansas	Johnson	100,000	N/A
Kansas	1358	Kansas	Lyon	40,000	N/A
Kansas	1359	Kansas	Jefferson	300,000	N/A
Kansas	1360	Kansas	Lyon Kansas	15,000	N/A
Kansas	1361	Kansas	Jefferson	100,000	N/A
Kansas	1362	Kansas	Lyon	40,000	N/A
Kansas	1363	Kansas	Jefferson	300,000	N/A
Kansas	1364	Kansas	Lafayette	27,000	N/A
Kansas	1365	Kansas	Lafayette	27,000	N/A
Kansas	1366	Kansas	Lafayette	27,000	N/A
Kansas	1367	Kansas	Lafayette	47,000	N/A
Kansas	1368	Kansas	Lafayette	47,000	N/A
Kansas	1369	Kansas	Lafayette	27,000	N/A
Kansas	1370	Kansas	Lafayette	27,000	N/A
Kansas	1371	Kansas	Johnson	100,000	N/A
Kansas	1372	Kansas	Anna Kendall	15,000	N/A
Maryland	1373	Maryland	Anne Arundel	100,000	N/A
Maryland	1374	Maryland	Anne Arundel	15,000	N/A
Maryland	1375	Maryland	Anne Arundel	100,000	N/A
Maryland	1376	Maryland	Baltimore	98,000	N/A
Maryland	1377	Maryland	Howard	15,000	N/A
Maryland	1378	Maryland	Dorchester	15,000	N/A
Maryland	1379	Maryland	Anne Arundel	100,000	N/A
Maryland	1380	Maryland	Kent	18,000	N/A
Maryland	1381	Maryland	Baltimore	98,000	N/A
Illinois	681	Chicago	Cook	161,000	N/A
Illinois	1382	Chicago	Cook	245,000	N/A
Illinois	586	Illinois	Kankakee	65,000	N/A
Illinois	1383	Chicago	Cook	245,000	N/A
Iowa	144	Iowa	Johnson	75,849	N/A
Iowa	1384	Iowa	Polk Iowa	500,000	N/A
Iowa	1385	Iowa	Mahaska	5,000	N/A
Iowa	1383	Iowa	Woodbury	102,000	N/A
Hawaii	1386	Hawaii	Honolulu	48,219	N/A
Hawaii	790	Hawaii	Honolulu	768,000	N/A
Hawaii	1387	Hawaii	Maui	150,000	N/A
Hawaii	710	Hawaii	Hawaii	150,000	N/A
Hawaii	1388	Hawaii	Maui	150,000	N/A
Hawaii	1389	Hawaii	Maui	150,000	N/A
Guam	1448	Guam	Guam	150,000	N/A
Guam	1449	Guam	Guam	8,000	N/A
Guam	1450	Guam	Guam	60,000	N/A
Georgia	1451	Georgia	Dekalb	545,000	N/A
Georgia	476	Georgia	Richmond	197,141	N/A
Florida	1452	Florida	Pinellas	100,000	N/A
Florida	1453	Florida	Pinellas	150,000	N/A
Florida	511	Florida	Pinellas	150,000	N/A
Florida	1454	Florida	Orange	150,000	N/A
Florida	1552	Florida	Leon	200,000	N/A
Florida	1553	Florida	Palm Beach	200,000	N/A
Florida	1554	Florida	Alachua	100,000	N/A
Florida	1555	Florida	Hillsborough	150,000	N/A
Connecticut	1556	Connecticut	Fairfield	100,000	N/A
Connecticut	896	Connecticut	Fairfield	65,000	N/A
Connecticut	1557	Connecticut	Fairfield	150,000	N/A
Connecticut	291	Connecticut	Fairfield	75,000	N/A
Connecticut	1558	Connecticut	Fairfield	45,878	N/A
Connecticut	1618	Connecticut	Hartford	25,000	N/A
Connecticut	1559	Connecticut	New London	50,000	N/A
Connecticut	1560	Connecticut	New London	25,000	N/A
Connecticut	1561	Connecticut	New London	25,000	N/A
Colorado	1562	Colorado	Jefferson	238,000	N/A
Colorado	1299	Colorado	Garfield	7,392	N/A
Colorado	1563	Colorado	Weld	150,000	N/A
Colorado	852	Colorado	Saint Cruz	85,000	N/A
Colorado	1564	Colorado	Weld	30,000	N/A
Colorado	724	Colorado	Costa Costa	215,264	N/A
Colorado	1565	Colorado	Weld	150,000	N/A
Colorado	1566	Colorado	Jefferson	60,000	N/A
Colorado	506	Colorado	Ventura Los Angeles	130,000	N/A
Colorado	1567	Colorado	Weld	150,000	N/A
Colorado	495	Colorado	Saint Cruz	60,000	N/A
Colorado	1568	Colorado	Saint Cruz	15,000	N/A
Colorado	2123	Colorado	Monterey	15,000	N/A
Colorado	1569	Colorado	Saint Cruz	15,000	N/A
Colorado	1570	Colorado	Weld	50,000	N/A
Colorado	1387	California	Monterey	250,000	N/A
Colorado	1571	California	Ventura	200,000	N/A
Colorado	1298	California	El Dorado	40,000	N/A
Colorado	1572	California	Lake	5,000	N/A
Colorado	808	California	Mohave	37,000	N/A
Colorado	1573	California	Lake	5,000	N/A
Colorado	1574	California	Lake	5,000	N/A
Mississippi	1575	Mississippi	Hinds	5,000	N/A
Arkansas	1576	Arkansas	Pulaski	100,000	N/A
Arkansas	1365	Arkansas	Ouachita	10,200	N/A
Arkansas	1577	Arkansas	Sebastian	50,000	N/A
Arkansas	1544	Arkansas	Garland	50,000	N/A
Arkansas	1578	Arkansas	Pulaski	100,000	N/A
Arkansas	1579	Arkansas	Benton	25,000	N/A
Arkansas	1580	Arkansas	White	25,000	N/A
Arkansas	1581	Arkansas	Saline	50,000	N/A
Arkansas	1778	Arkansas	Marshall	9,000	N/A
Alabama	1582	Alabama	Mobile	45,000	N/A
Alabama	1394	Alabama	Shelby	15,000	N/A
Maryland	1583	Maryland	Anne Arundel	100,000	N/A
Maryland	1584	Maryland	Howard	100,000	N/A
Maryland	1585	Maryland	Anne Arundel	100,000	N/A
Maryland	1586	Maryland	Howard	270,000	N/A
Maryland	1587	Maryland	Kent	21,000	N/A
Maryland	1588	Maryland	Kent	21,000	N/A
Maryland	1589	Maryland	Kent	21,000	N/A
Maryland	1590	Maryland	Kent	21,000	N/A
Maryland	1591	Maryland	Kent	21,000	N/A
Maryland	1592	Maryland	Howard	270,000	N/A
Maryland	1593	Maryland	Kent	21,000	N/A
Maryland	1594	Maryland	Kent	21,000	N/A
Maryland	1595	Maryland	Kent	21,000	N/A
Maryland

California	138	Calaveras	256,000
California	139	Lake County	229,000
California	140	San Joaquin	83,498
California	141	Los Angeles	10,017
California	142	Los Angeles	4,000,000
California	143	Los Angeles	10,000
California	144	Santa Barbara	56,000
California	145	San Luis Obispo	47,545
California	146	Sonoma	50,000
California	147	Shasta	60,000
California	148	Sacramento	15,000
California	149	Orange	1,000,000
California	150	Los Angeles	1,000,000
California	151	Los Angeles	2,000,000
California	152	Los Angeles	9,000
California	153	San Francisco	9,000
California	154	San Francisco	9,000
California	155	San Francisco	11,758
California	156	San Mateo, San Francisco	10,346
California	157	San Francisco	8,000
California	158	San Mateo, San Francisco	10,000
California	159	San Mateo, San Francisco	750,000
California	160	Imperial	40,000
California	161	Orange County	400,000
California	162	Ventura	6,379
California	163	Ventura	7,710
California	164	Ventura	5,818
California	165	Ventura	1,000,000
California	166	Ventura	1,000,000
California	167	Ventura	4,170
California	168	Ventura	10,000
California	169	Ventura	10,000
California	170	Ventura	10,000
California	171	Ventura	10,000
California

Ohio	455	Ohio	Mahoning
Ohio	456	Ohio	Hamilton
Ohio	46	Ohio	Athens
Ohio	47	Ohio	Lucas
Ohio	48	Ohio	Allen
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Virginia	1338	Wrightsville	1,000	0.0%
Virginia	1339	Middlesex	5,682	0.0%
Vermont	1340	Jericho	10,250	0.0%
Vermont	1341	Chittenden	21,095	-0.0%
Vermont	1342	Hartford	10,000	-0.0%
Vermont	1343	Caledonia	3,500	0.0%
Vermont	1344	Bennington	9,000	0.0%
Vermont	1345	Bennington	5,000	0.0%
Vermont	1346	Chittenden	21,095	-0.0%
Washington	1347	Clark	12,000	0.0%
Washington	1348	Washington	120,000	0.0%
Washington	1349	King Prairie	898,000	0.0%
Washington	1350	Washington	192,100	-0.0%
Washington	1351	Washington	192,100	-0.0%
Washington	1352	Clark	12,000	0.0%
Washington	1353	Spokane	10,000	0.0%
Washington	1354	Pierce	25,000	-0.0%
Wisconsin	1355	Pierce	25,000	-0.0%
Wisconsin	1356	Pierce	25,000	-0.0%
Wisconsin	1357	Pierce	25,000	-0.0%
Wisconsin	1358	Pierce	25,000	-0.0%
Wisconsin	1359	Pierce	25,000	-0.0%
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Wisconsin	1368	Pierce	25,000	-0.0%
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Wisconsin	1370	Pierce	25,000	-0.0%
Wisconsin	1371	Pierce	25,000	-0.0%
Wisconsin	1372	Pierce	25,000	-0.0%
Wisconsin	1373	Pierce	25,000	-0.0%
Wisconsin	1374	Pierce	25,000	-0.0%
Wisconsin	1375	Pierce	25,000	-0.0%
Wisconsin	1376	La Pointe	5,000	-0.0%
Wisconsin	1377	San Mateo, San Francisco	250,000	0.0%
Wisconsin	1378	Pierce	25,000	-0.0%
Wisconsin	1379	Pierce	25,000	-0.0%
Wisconsin	1380	Pierce	25,000	-0.0%
Wisconsin

New York	694	New York	Franklin	7,175	N/A
New York	721	New York	Rensselaer	79,699	58.6
New York	723	New York	Seneca	6,961	42.33
New York	776	New York	Ulster	26,599	31.25
New York	869	New York	Warren	23,462	45.8
New York	986	New York	Washington	12,260	50
New York	995	New York	Allegany	4,155	N/A
New York	996	New York	Erie	142,478	76.5
New York	997	New York	Genesee	16,459	33.5
New York	998	New York	Erie	431,141	76.5
Ohio	112	Ohio	Wayne	27,000	48
Ohio	127	Ohio	Montgomery	226,729	50
Ohio	140	Ohio	Lorain	54,500	34
Ohio	157	Ohio	Sandusky	25,000	48
Ohio	1805	Ohio	Huron	3,276	42
Ohio	186	Ohio	Lawrence	10,445	N/A
Ohio	1957	Ohio	Lake	20,000	50
Ohio	205	Ohio	Hardin	8,500	new site
Ohio	214	Ohio	Fairfield	24,303	39
Ohio	233	Ohio	Richland	52,000	50
Ohio	235	Ohio	Washington	15,284	56
Ohio	263	Ohio	Knox	18,000	new site
Ohio	273	Ohio	Hamilton	125,247	65.6
Ohio	274	Ohio	Henry	12,246	62
Ohio	291	Ohio	Huron	17,000	30
Ohio	301	Ohio	Lucas	44,680	30
Ohio	304	Ohio	Butler	22,000	32
Ohio	309	Ohio	Licking	3,300	25
Ohio	326	Ohio	Scioto	20,366	44.4
Ohio	36	Ohio	Summit	377,378	40
Ohio	395	Ohio	Hamilton	83,058	62
Ohio	403	Ohio	Montgomery	65,000	60
Ohio	411	Ohio	Wyandot	6,700	50
Ohio	442	Ohio	Montgomery	113,629	70
Ohio	54	Ohio	Greene	46,160	44
Ohio	79	Ohio	Stark	85,000	40
Ohio	859	Ohio	Mercer	4,800	70
Oregon	934	Oregon	Benton	58,856	N/A
Oregon	935	Oregon	Polk	16,555	16.33
Oregon	936	Oregon	Lane	8,925	8.5
Oregon	942	Oregon	Washington	220,000	18.33
Oregon	943	Oregon	Washington	40,000	19
Oregon	945	Oregon	Multnomah	662,235	15.5
Oregon	947	Oregon	Lane	10,200	26.33
Oregon	949	Oregon	Washington	40,000	33
Oregon	951	Oregon	Umatilla	18,775	19
Oregon	953	Oregon	Klamath	20,840	48.33
Oregon	955	Oregon	Yamhill	34,615	27.67
Oregon	959	Oregon	Umatilla	17,500	27.5
Oregon	960	Oregon	Douglas	30,000	43.33
Oregon	961	Oregon	Marion	229,000	52
Oregon	965	Oregon	Marion	10,520	28.5
Oregon	967	Oregon	Marion	10,840	10.33
Oregon	971	Oregon	Lane	235,155	23
Pennsylvania	1366	Pennsylvania	Dauphin	125,000	82.2
Pennsylvania	1368	Pennsylvania	Westmoreland, Armstrong	34,200	66.6
Pennsylvania	1376	Pennsylvania	Westmoreland	4,600	66
Pennsylvania	1390	Pennsylvania	Monroe	25,000	35.8
Pennsylvania	1455	Pennsylvania	Delaware	6,800	70.4
Pennsylvania	1533	Pennsylvania	Centre	90,000	49
Pennsylvania	1553	Pennsylvania	Mckean	14,194	46.2
Pennsylvania	1554	Pennsylvania	Mercer	16,000	72.6
Pennsylvania	1777	Pennsylvania	Monroe	4,000	29.25
Pennsylvania	2307	Pennsylvania	Montgomery	35,000	58.8
Pennsylvania	2308	Pennsylvania	Montgomery	8,900	68
Pennsylvania	2328	Pennsylvania	Montgomery	70,000	59.6
Pennsylvania	2329	Pennsylvania	Montgomery	35,000	41.4
Pennsylvania	2362	Pennsylvania	Allegheny	900,000	52.4
Pennsylvania	2364	Pennsylvania	Allegheny	7,000	46.8
Pennsylvania	2365	Pennsylvania	Allegheny	48,000	48.5
Pennsylvania	2367	Pennsylvania	Allegheny	5,191	57.4
Pennsylvania	2368	Pennsylvania	Allegheny	43,482	47.8
Rhode Island	464	Rhode Island	Providence	240,000	new site
Rhode Island	677	Rhode Island	Bristol	21,100	new site
Rhode Island	835	Rhode Island	Bristol	11,000	new site
South Carolina	1871	South Carolina	Beaufort	20,000	65.33
South Carolina	877	South Carolina	Kershaw	8,825	25.2
South Carolina	878	South Carolina	Charleston	64,170	N/A
South Carolina	883	South Carolina	York	88,000	N/A
South Carolina	884	South Carolina	Greenville	143,531	29.6
South Carolina	885	South Carolina	Georgetown	30,000	55.2
South Carolina	908	South Carolina	Richland	60,000	45.5
South Carolina	909	South Carolina	Horry	195,000	30.5
Texas	135	Houston	Harris	16,030	41
Texas	149	Houston	Harris	4,170	33
Texas	160	Houston	Harris	40,689	23.33
Texas	183	Houston	Harris	16,804	27.67
Texas	1934	Texas	Mclennan	193,820	N/A
Texas	207	Houston	Harris, Montgomery	52,055	49.67
Texas	250	Houston	Harris	20,161	28
Texas	289	Houston	Harris	19,867	0
Texas	290	Houston	Harris	95,600	21
Texas	307	Houston	Harris	5,497	63
Texas	35	Houston	Harris	551,150	39
Texas	366	Houston	Harris	109,414	48
Texas	367	Houston	Harris	109,414	55.33
Texas	406	Houston	Harris	59,188	37.33
Texas	40	Houston	Harris	117,968	39.33
Texas	435	Houston	Harris	33,645	54
Texas	439	Houston	Harris	85,129	34.67
Texas	449	Houston	Harris	8,610	37
Texas	56	Houston	Harris	70,900	36
Texas	97	Houston	Harris	37,359	35.33
Utah	1077	Utah	Wasatch	5,806	74.6
Utah	10	Utah	Cache	9,095	59.2
Utah	11	Utah	Utah, Salt Lake	94,484	60.8
Utah	12	Utah	Cache	94,005	67.6
Utah	15	Utah	Grand, San Juan	9,896	82.8
Utah	16	Utah	Weber, Davis	228,700	53.4
Utah	18	Utah	Utah	102,624	48.4
Utah	19	Utah	Carbon	17,312	47.2
Utah	20	Utah	Utah	21,231	61
Utah	21	Utah	Duchesne	6,790	51.2
Utah	22	Utah	Summit	23,304	56
Utah	24	Utah	Davis	84,981	46.4
Utah	26	Utah	Utah	53,313	58.25
Utah	28	Utah	Salt Lake	209,645	44.25
Utah	2	Utah	Uintah	29,513	72.2
Utah	33	Utah	Utah	253,112	50.8
Utah	5	Utah	Iron	32,451	65.2
Utah	9	Utah	Davis, Weber	208,850	41
Virginia	1237	Virginia	Tazewell	4,600	4
Virginia	1576	Virginia	Loudoun	300,000	76
Virginia	177	Virginia	Norfolk City, Virginia Beach City, Chesapeake City	530,848	new site
Virginia	177	Virginia	Chesapeake City, Norfolk City, Virginia Beach City	530,848	8
Virginia	178	Virginia	Isle Of Wight, Suffolk City, Chesapeake City, Portsmouth City	197,608	18
Virginia	180	Virginia	Portsmouth City, Virginia Beach City, Norfolk City, Chesapeake City	192,347	new site
Virginia	181	Virginia	Williamsburg City, Newport News City, York, New Kent, James City	69,059	18
Virginia	1826	Virginia	Wise	14,000	19.6
Virginia	1828	Virginia	Stafford	44,000	new site
Virginia	1829	Virginia	Amherst, Lynchburg City, Campbell, Bedford	220,000	54.4
Virginia	1831	Virginia	Rockingham, Harrisonburg City	81,000	28.2
Virginia	1833	Virginia	Montgomery, Pulaski, Radford	70,000	52.6
Virginia	1834	Virginia	Roanoke, Roanoke City, Salem, Botetourt	300,000	51
Virginia	1837	Virginia	Russell	3,100	new site
Virginia	1837	Virginia	Russell	3,100	34.67
Virginia	1985	Virginia	Clifton Forge City	4,000	48.8
Virginia	2035	Virginia	Newport News City, Hampton City	118,497	new site
Virginia	2035	Virginia	Hampton City, Newport News City	118,497	42
Virginia	2036	Virginia	James City, York, Hampton City, Newport News City	141,543	16
Virginia	2037	Virginia	Gloucester, Mathews, Hampton City, Poquoson City, Newport News City, York	99,112	new site
Virginia	2078	Virginia	Arlington	232,965	44.2
Virginia	2290	Virginia	Henrico	330,000	29.67
Virginia	38	Virginia	Alexandria City, Fairfax	300,000	42.2
Virginia	61	Virginia	Montgomery	52,500	40
Washington	1076	Washington	Chelan	35,550	22
Washington	1143	Washington	Pierce	43,000	42.4
Washington	1397	Washington	Pierce	295,855	30.2
Washington	1635	Washington	Yakima	117,072	19.2
Washington	2104	Washington	Kittitas	21,761	54.75
Washington	2105	Washington	Island	24,180	85.5
Washington	2414	Washington	Snohomish	20,000	58.2
Washington	2419	Washington	Pierce, King	896,000	42
Washington	2424	Washington	Skagit	17,000	new site
Washington	2438	Washington	Clark	162,100	new site
Washington	2439	Washington	Clark	81,140	new site
Washington	2444	Washington	Snohomish	173,800	32.8
Washington	2445	Washington	Skagit	35,600	new site
Washington	351	Washington	Clark	120,000	new site
Washington	676	Washington	King, Snohomish	288,000	42.2
Washington	755	Washington	Benton	15,000	44.6
Washington	758	Washington	Benton	83,000	N/A
Washington	760	Washington	Spokane	120,000	37
Wisconsin	128	Wisconsin	Brown	43,000	56
Wisconsin	153	Wisconsin	Waukesha	51,000	33.2
Wisconsin	164	Wisconsin	Brown, Kewaunee	189,000	62.2
Wisconsin	172	Wisconsin	Washington, Dodge	17,320	40.67
Wisconsin	1851	Wisconsin	Walworth	28,000	45.25
Wisconsin	189	Wisconsin	Rock	63,500	26.2
Wisconsin	203	Wisconsin	Kenosha	122,000	43.6
Wisconsin	209	Wisconsin	La Crosse	85,000	66.6
Wisconsin	223	Wisconsin	Columbia	3,100	71.33
Wisconsin	243	Wisconsin	Juneau	4,400	62
Wisconsin	246	Wisconsin	Dunn	16,000	44
Wisconsin	248	Wisconsin	Lincoln	9,700	78.33
Wisconsin	256	Wisconsin	Ozaukee, Milwaukee	470,007	57.6
Wisconsin	257	Wisconsin	Waukesha, Milwaukee, Racine, Washington, Ozaukee	615,934	49.8
Wisconsin	260	Wisconsin	Green	11,000	60.6
Wisconsin	297	Wisconsin	Jefferson, Waukesha	22,300	41.5
Wisconsin	302	Wisconsin	Winnebago	78,300	59.75
Wisconsin	320	Wisconsin	Sheboygan	9,150	42.67
Wisconsin	325	Wisconsin	Columbia	11,000	38.2
Wisconsin	389	Wisconsin	Portage	27,000	N/A
Wisconsin	392	Wisconsin	Douglas	28,000	28.25
Wisconsin	41	Wisconsin	Outagamie, Winnebago, Calumet	72,810	50.2
Wisconsin	432	Wisconsin	Waupaca	8,000	63
Wisconsin	433	Wisconsin	Marathon	42,350	55.4
West Virginia	1860	West Virginia	Kanawha	9,000	17
West Virginia	1861	West Virginia	Wayne, Cabell	56,000	30.11
West Virginia	1863	West Virginia	Cabell	7,000	49.63
West Virginia	1864	West Virginia	Cabell	7,200	33.71
West Virginia	206	West Virginia	Mineral	8,168	46.67
West Virginia	2083	West Virginia	Putnam	4,900	44
West Virginia	445	West Virginia	Ohio	50,000	N/A
West Virginia	466	West Virginia	Mercer	36,000	19.11
Alabama	1716	Alabama	Jefferson	30,000	56.57
Alabama	1718	Alabama	Jefferson	225,000	45.29
Arkansas	2214	Arkansas	Boone	15,000	66.43
California	1188	California	Ventura	250,000	N/A
California	1378	California	Yolo	59,000	51
California	1674	California	San Benito	42,000	30
California	1678	California	Santa Cruz	160,000	30.14
California	1679	California	Santa Cruz	160,000	52.57
California	1680	California	Sonoma	230,000	59.86
California	1684	California	San Diego	2,200,000	41.57
California	1690	California	Los Angeles	4,000,000	24.43
California	1695	California	Marin	30,000	29.14
California	1703	California	Marin	53,000	32
California	1732	California	Alameda	229,476	56
California	1733	California	Alameda	47,229	32.4
California	1734	California	Alameda	68,150	43.8
California	1756	California	Monterey	262,000	24.43
California	1760	California	Yolo	4,006	25.57
California	1766	California	Yolo	7,286	50
California	1784	California	Marin	30,000	46.14
California	1790	California	Orange	120,000	40.86
California	1793	California	Sonoma	28,000	54.29
California	1869	California	Riverside	350,000	50.43
California	305	California	Santa Clara	236,000	35.87
California	363	California	San Francisco, San Mateo	750,000	41.21
California	564	California	Alameda	50,000	36
Connecticut	2458	Connecticut	Fairfield	140,000	new site
Delaware	1930	Delaware	Sussex	13,172	61.14
Florida	1631	Florida	Orange	50,000	34.71
Florida	1699	Florida	Palm Beach	90,000	40.57
Florida	1735	Florida	Seminole	95,000	31
Florida	1841	Florida	Miami-Dade	920,528	9.71
Florida	2359	Florida	Pinellas	47,790	34
Georgia	1663	Georgia	Fulton	189,593	35.43
Georgia	1697	Georgia	Fulton	12,818	39.29
Hawaii	2262	Hawaii	Hawaii	16,257	43.14
Hawaii	2297	Hawaii	Honolulu	300,000	29
Hawaii	2299	Hawaii	Honolulu	390,000	18.43
Hawaii	2301	Hawaii	Honolulu	18,000	37
Iowa	1783	Iowa	Muscatine	24,400	24
Iowa	1791	Iowa	Wapello	25,529	36
Idaho	1842	Idaho	Ada	186,901	61.83
Idaho	813	Idaho	Ada	108,556	61.43
Illinois	1721	Illinois	Du Page	63,000	26.6
Indiana	1738	Indiana	Clark	25,000	67.33
Kansas	1696	Kansas	Douglas	80,000	51.71
Kansas	1813	Kansas	Wyandotte	15,000	54.86
Maryland	1782	Maryland	Washington	90,000	57.71
Maine	2409	Maine	Androscoggin	60,000	35.43
Michigan	1682	Michigan	Macomb	140,000	51.71
Michigan	1691	Michigan	Jackson	90,000	59.29
Michigan	1781	Michigan	Kent	75,000	50.71
Michigan	2208	Michigan	Isabella	21,690	66.33
Minnesota	1675	Minnesota	Blue Earth, Nicollet	70,000	63.57
Minnesota	2263	Minnesota	Goodhue	16,000	90.29
North Carolina	1662	North Carolina	Forsyth	92,000	47.86
North Carolina	2410	North Carolina	Wilson	50,000	40.29
North Carolina	569	North Carolina	Lenoir	25,000	68.14
New Hampshire	1755	New Hampshire	Strafford	30,000	72.5
New Jersey	2222	New Jersey	Monmouth	100,000	57.43
New Jersey	2271	New Jersey	Somerset	130,000	53.71
Nevada	2106	Nevada	Clark	990,000	67.57
New York	2344	New York	Oswego	30,000	34.57
New York	2395	New York	Tompkins	90,000	41.67
Ohio	1779	Ohio	Mahoning	174,000	50.71
Pennsylvania	1667	Pennsylvania	Dauphin	125,000	67.29
Pennsylvania	1737	Pennsylvania	Delaware	220,000	66.71
Tennessee	2288	Tennessee	Walker, Dade, Catoosa, Hamilton	400,000	37.29
Tennessee	2345	Tennessee	Shelby	300,000	29.43
Texas	1949	Texas	Montgomery	15,000	57
Utah	1708	Utah	Utah	115,000	58.4

Terms to Know

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

Normalization: A statistical method to account for differences in variables such as wastewater flow rate and number of people served by a sewer system. In other words, normalization reduces excess variation (or "noise") and helps account for things like changing population sizes or weather events that can impact wastewater. Normalized data can be compared over time and between different sites. Metrics presented on this page are based on SARS-CoV-2 viral RNA concentrations in wastewater that have been normalized. See the NWSS Data Analytics page for more information.

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

About the Data

†Data will update weekly on Friday as soon as they are reviewed and verified, oftentimes before 8 pm ET. Updates will occur the following day when reporting coincides with a federal holiday. Note: Weekly updates 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 previous 15 days, what percent reported increased levels, and what percent stayed the same.
- Viewed over time, the chart shows how this distribution changed.
- For each date, the number of sites in each percent change category is counted and divided by the total number of sampling sites with current data. This information is provided on a stacked area chart to show the change in the percent of sites in each percent change category since January 1, 2021.
- To simplify the chart, the "-9% to 0%" and "1% to 9%" categories were combined into "-9% to 9%," and the "100% to 999%" and "1000% or more" categories were combined into "100% or more." Because the number of sampling sites has changed since January 1, 2021, the total number of sites with current data is shown as a black line on the chart.
- Not all sites have data since January 1, 2021, and not all sites have data for all dates shown on the chart.
- 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 by site

- 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 since December 1, 2021 from the lowest to highest level. The ordered levels are then grouped into five categories (0-19%, 20-39%, 40-59%, 60-79%, and 80-100%) based on how low or high their levels are compared to previous levels. The levels in the 0-19% group represent the lowest levels seen at that sampling site and those in the 80-100% group represent the highest.
- 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 are not comparable to sites that have been reporting data since December 1, 2021 or earlier because the data history for these new sites is not long enough to reflect the same surges as the other sites.
- The "New site" category means a site just started collecting wastewater samples and has reported fewer than 10 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 during the current 15-day time period. This metric does not show overall levels of SARS-CoV-2 in wastewater. Percent change compares past data to current data to show changing trends. A large percent increase does not necessarily mean SARS-CoV-2 viral levels in wastewater are high. For instance, a change from 1 unit to 2 units would be a percent change of 100%. A change from 500,000 units to 1 million units is also a percent change of 100%.
- Percent change is calculated as the modeled change over 15 days, based on linear regression of log-transformed SARS-CoV-2 levels. A site must report at least 2 samples over the 15-day period to calculate percent change. Sites with "No recent data" (colored gray on the map) reported fewer than 2 samples for the current 15-day period.

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

- This metric shows the percent of wastewater samples at each site that were positive for SARS-CoV-2 RNA over the last 15 days. It does not show overall levels of SARS-CoV-2 in wastewater.
- This metric is calculated by dividing the number of samples in which SARS-CoV-2 was detected at a site by the total number of samples collected for the site during the 15-day period and multiplying by 100.
- Sites with at least one sample and no SARS-CoV-2 viral detections over the past 15 days are listed as "Non-detects" and are shown on the map as hollow circles with a black outline.
- Sites with no samples for the current 15-day period are listed as "No recent data" and colored gray on the map.

SARS-CoV-2 concentrations in wastewater over time

- When a site is selected, a smoothed, spline fit 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 concentrations in wastewater at a sampling site have changed over the last 4 months.
- At least 4 samples are required to produce the smoothed SARS-CoV-2 concentration line. If a major change in laboratory methods is reported, only data since the new laboratory method was reported are shown. Sites labeled as 'New sites' in the current virus levels in wastewater metric should be viewed with caution since they have only a few samples 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 metric category (for example, the 15-day percent change category of 1000% or more) compared to the previous 7 days. In other words, it shows how many sites have been added or removed from the metric category in the past week. It is calculated by subtracting the current number of sites in each metric category from the number of sites in the same category 7 days earlier and dividing by 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 0.

County-level data

- Data are presented by sewershed (the geographic area contributing wastewater to a sampling location). Sampling locations may be at wastewater treatment plants or upstream in the sewage network. 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" on the map.

Sewershed locations

- Data are plotted in the ZIP code of the sampling location, so points on the map do not correspond exactly to sampling locations.
- All counties represented by a sampling location are highlighted when the sampling location point is selected.
- The District of Columbia (DC) and New York City (NYC) are shown separately on the map to denote sampling locations within DC and NYC. In the "State or Territory" dropdown menu, select "District of Columbia" or "New York City" to zoom to points reported within that jurisdiction. Please note some DC sampling locations may receive wastewater from parts of counties in Virginia or Maryland and some 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. These data may be incomplete for the most recent 15-day period due to processing and reporting delays. All data are provisional.

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 colored gray on the map. It will take several weeks for enough data to be collected to calculate the metrics displayed on this page. 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 3,000 people.
- Data from sewersheds where population estimates are missing.
- Data from facility or institution-specific sampling locations.
- Wastewater treatment plant names and the names of upstream sampling sites are made anonymous using a consistent, arbitrary number.
- Approximately 20% of U.S. households are on septic systems; the exact percent varies by location. These systems do not connect to wastewater treatment plants where sampling often occurs. Therefore, households on septic systems are not represented in the data.
- Data from sewersheds currently being monitored but not submitted by health departments to CDC. Certain communities collect wastewater samples but do not submit their data to CDC.
- Data from sewersheds may not be presented if there are data quality issues.

Data source

- Data displayed are derived from two sources:
- Data are submitted to CDC by state, tribal, local, and territorial (STLT) health departments participating in the National Wastewater Surveillance System. Participation is voluntary, so not all jurisdictions are reporting to CDC.
- Data are reported through a CDC-managed contract for commercial testing, which is intended to supplement the geographic coverage of the STLT wastewater surveillance programs.

Laboratory methods

- SARS-CoV-2 concentrations in wastewater are measured using reverse transcription quantitative polymerase chain reaction (RT-qPCR) or reverse transcription digital polymerase chain reaction (RT-dPCR). Laboratory processing and quantification methods may vary between sampling sites or, less commonly, within a sampling site over time. Since SARS-CoV-2 concentration estimates may differ across these lab methods, concentration values should not be compared across sampling locations. Instead, percent change in SARS-CoV-2 concentrations and current levels compared to past levels at the same site are provided. These metrics are more comparable across lab methods. When testing a sample, SARS-CoV-2 is considered detected when any PCR replicates for the sample were positive. Positive is defined for RT-qPCR as a Ct value less than 40 and for RT-ddPCR as 3 or more positive droplets/partitions. Learn more on the Wastewater Surveillance Testing Methods page.

Data download

- These data can be downloaded from data.cdc.gov: NWSS Public SARS-CoV-2 Wastewater Metric Data and NWSS Public SARS-CoV-2 Concentration in Wastewater Data
- The data dictionary for these data (Public Analytics Data Dictionary) is also available.
- To request detailed wastewater data, including a full-time history of raw concentrations, email nwss@cdc.gov with the subject line 'NWSS public data request.' You will be required to sign a data use agreement.

How does wastewater surveillance work?

Wastewater data can show changes in disease trends 4 to 6 days before those changes in trends are seen in clinical cases, and a single wastewater sample captures the infection status of thousands to millions of individuals. Learn more: National Wastewater Surveillance System (NWSS).

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

Check your county's COVID-19 Community Level and follow the recommended prevention steps.
Public health officials watch for sustained increasing levels of the virus in wastewater and use these data to inform public health decisions. State and local health officials track a variety of data and put this information together to understand the local COVID-19 situation and decide how to best respond.

How do I build NWSS in my community?

Wastewater-based disease surveillance is an exciting new tool to help 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?

New sampling sites are being added over time as health departments begin sampling and reporting wastewater surveillance data. Some communities not represented on this dashboard may be conducting wastewater surveillance. If you would like to know if wastewater surveillance is happening in your community, contact your health department or local government. At this time, CDC does not release the names of the wastewater treatment plants or zip codes where sampling sites are located. However, information on the counties served by the wastewater sampling sites is provided.

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Centers for Disease Control and Prevention. COVID Data Tracker. Atlanta, GA: U.S. Department of Health and Human Services, CDC; 2023, November 05. https://covid.cdc.gov/covid-data-tracker