[Español (Spanish)]

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 Transmission Levels (also known as Community Transmission) to describe the amount of COVID-19 spread within each county. Healthcare facilities use Transmission Levels to determine infection control interventions.

United States At a Glance	**Cases** Total	**Deaths** Total	Current **Hosp.**	**34.5% of People 5+ with** First Booster
	91,198,391	**1,025,363**	**21,178**	
	Case Trends	Death Trends	Admission Trends	

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.

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

Maps, charts, and data provided by CDC, updates Mon-Fri 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.

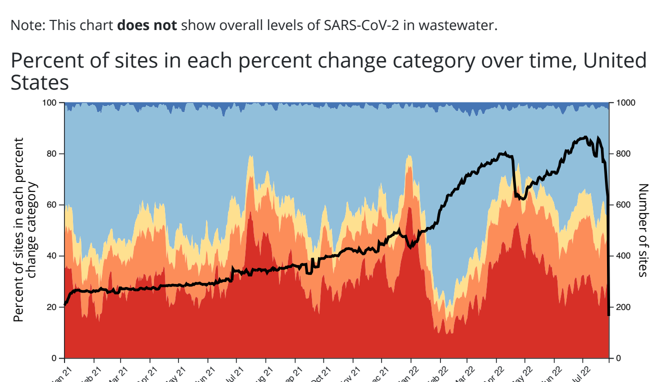
The percent change metric shows whether virus levels have increased or decreased at sites over the last 15 days.

- 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



Download

Wastewater Metric Map

State or territory: Select State or Territory

County: Select a state in order to enable county select

Reset Selections

Time Period: Jul 15, 2022 – Jul 29, 2022

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.

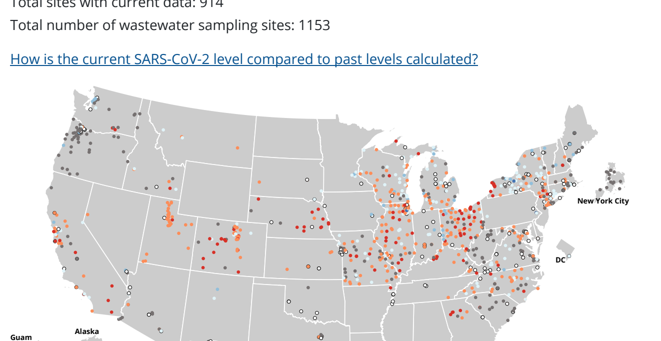
Note: Sites began collecting data at different times. Sites that began reporting wastewater data after December 1, 2021 are not comparable to sites that started reporting data on or before December 1, 2021. The data history for these new sites is not long enough to reflect the same surges as the other 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	173	19	0%
0% to 19%	3	0	50%
20% to 39%	55	6	12%
40% to 59%	205	22	- 4%
60% to 79%	340	37	- 14%
80% to 100%	138	15	- 3%

Total sites with current data: 914
Total number of wastewater sampling sites: 1153

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

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: Monday, August 1, 2022 3:19 PM ET. Posted: Monday, August 1, 2022 3:54 PM ET

Download Data

Jurisdiction	Sewershed ID	Reporting Jurisdiction	County	Population Served	Current Virus Levels (in %)
Alaska	1172	Alaska	Anchorage	200,000	61.4
Alaska	1158	Alaska	Anchorage	15,000	63.5
Arizona	1334	Arizona	Maricopa	150,000	new site
Arizona	808	Arizona	Mohave	37,500	59.2
Arizona	501	Arizona	La Paz	3,500	N/A
Arizona	808	Arizona	Mohave	22,000	new site
Arizona	1054	Arizona	Yuma	10,873	N/A
Arizona	1055	Arizona	Yuma	4,725	49.8
Arizona	1212	Arizona	Maricopa	64,521	N/A
Arizona	1212	Arizona	Maricopa	17,280	N/A
Arizona	1212	Arizona	Maricopa	9,430	N/A
Arizona	1271	Arizona	Pima	23,000	new site
Arizona	1327	Arizona	Mohave	30,000	new site
Arizona	1334	Arizona	Maricopa	150,000	new site
Arizona	501	Arizona	La Paz	3,500	64.4
Arizona	715	Arizona	Pima	397,407	60
Arizona	590	Arizona	Pima	303,176	N/A
Arizona	715	Arizona	Pima	418,268	N/A
Arizona	1212	Arizona	Maricopa	6,500	N/A
Arizona	590	Arizona	Pima	347,900	52.4
Arizona	1053	Arizona	Yuma	8,271	N/A
Arizona	1059	Arizona	Yuma	18,039	N/A
Arizona	1212	Arizona	Maricopa	9,848	N/A
Arizona	1212	Arizona	Maricopa	12,542	N/A
Arkansas	741	Arkansas	Mississippi	5,500	70
Arkansas	741	Arkansas	Mississippi	5,500	new site
Arkansas	591	Arkansas	Mississippi	6,500	new site
California	1199	California	Kings	59,000	new site
California	1230	California	San Luis Obispo	47,400	26.6
California	506	California	Ventura, Los Angeles	100,000	72.6
California	564	California	Alameda	60,000	30.2
California	724	California	Contra Costa	215,394	59
California	763	California	Santa Cruz	160,000	new site
California	802	California	Santa Cruz	85,000	new site
California	803	California	Santa Cruz	150,000	new site
California	1028	California	Santa Cruz	160,000	N/A
California	543	California	San Benito	40,000	N/A
California	830	California	San Luis Obispo	47,000	new site
California	1019	California	Lake	13,200	77.5
California	137	California	Alameda, Contra Costa	740,000	79.29
California	215	California	Los Angeles, Ventura	4,000,000	83.43
California	247	California	Merced	91,000	N/A
California	305	California	Santa Clara	236,000	78.43
California	354	California	Santa Clara	153,000	78.29
California	357	California	San Diego	2,200,000	74.57
California	59	California	Kern	168,750	75.83
California	1173	California	Contra Costa	494,300	50
California	1320	California	Ventura	230,000	new site
California	495	California	Santa Cruz	60,000	76
California	763	California	Santa Cruz	160,000	44.25
California	779	California	Los Angeles	200,000	82.25
California	793	California	San Luis Obispo	39,000	58.4
California	803	California	Santa Cruz	150,000	59.75
California	834	California	Riverside	91,765	80.5
California	1026	California	Santa Cruz	160,000	N/A
California	1027	California	Santa Cruz	160,000	N/A
California	1188	California	Ventura	220,000	75
California	299	California	Orange	1,800,000	53.36
California	352	California	Santa Clara	110,338	74.71
California	356	California	San Bernardino	325,000	80.5
California	363	California	San Mateo, San Francisco	750,000	77.14
California	383	California	Sacramento	1,480,000	70.6
California	393	California	San Mateo	199,000	58.64
California	77	California	Imperial	40,000	84.29
California	88	California	Contra Costa	484,800	87.86
California	1118	California	Humboldt	43,173	54.4
California	1173	California	Contra Costa	494,300	new site
California	1199	California	Kings	59,000	N/A
California	1209	California	Marin	13,000	70.8
California	1219	California	Lake	5,000	new site
California	1288	California	El Dorado	40,000	44.4
California	570	California	Sonoma	220,000	33.8
California	778	California	Lake	10,080	62.6
California	802	California	Santa Cruz	85,000	83.25
California	461	California	Humboldt	45,000	N/A
California	779	LA County	Los Angeles	197,000	N/A
California	126	California	Yolo	70,717	76.07
California	158	California	Fresno	650,000	83.5
California	211	California	Los Angeles	3,500,000	53.43
California	258	California	Stanislaus	230,000	N/A
California	353	California	Santa Clara	1,500,000	82.67
California	362	California	San Francisco, San Mateo	250,000	79.36
California	362	California	San Mateo, San Francisco	210,000	86.43
Colorado	1290	Colorado	Garfield	7,300	50
Colorado	161	Colorado	Garfield	16,714	83
Colorado	163	Colorado	Weld	83,319	73
Colorado	372	Colorado	Arapahoe, Denver	247,443	72.4
Colorado	437	Colorado	Larimer	9,292	49.5
Colorado	58	Colorado	Weld, Larimer	7,946	N/A
Colorado	737	Colorado	Alamosa	18,364	N/A
Colorado	748	Colorado	El Paso	34,286	84.25
Colorado	751	Colorado	Mesa	89,286	N/A
Colorado	841	Colorado	Adams	21,429	80.67
Colorado	887	Colorado	Summit	18,571	N/A
Colorado	928	Colorado	Weld	20,000	75
Colorado	142	Colorado	Larimer	5,818	89.5
Colorado	150	Colorado	Larimer	17,997	66.6
Colorado	226	Colorado	Boulder	17,600	56.4
Colorado	227	Colorado	Larimer	66,428	74.6
Colorado	252	Colorado	Denver	709,904	73
Colorado	329	Colorado	Pueblo	96,514	76.75
Colorado	396	Colorado	San Miguel	15,000	89.6
Colorado	47	Colorado	Pitkin	5,500	83
Colorado	556	Colorado	Morgan	12,000	55.8
Colorado	576	Colorado	Routt	43,741	N/A
Colorado	657	Colorado	Summit	28,571	91
Colorado	749	Colorado	Eagle	21,071	89.25
Colorado	846	Colorado	Gunnison	30,000	87
Colorado	116	Colorado	El Paso	102,203	72.25
Colorado	117	Colorado	El Paso	303,855	68.25
Colorado	122	Colorado	Summit	7,857	75
Colorado	151	Colorado	Larimer	92,126	60.8
Colorado	152	Colorado	Larimer	26,621	64
Colorado	224	Colorado	Boulder, Weld	75,543	68
Colorado	251	Colorado	Denver	345,453	60.4
Colorado	368	Colorado	Adams	54,560	79.4
Colorado	370	Colorado	Larimer	23,193	74.2
Colorado	408	Colorado	Summit	35,643	92.25
Colorado	49	Colorado	Arapahoe, Adams	268,003	80.8
Colorado	578	Colorado	Las Animas	14,286	85
Colorado	656	Colorado	La Plata	23,429	85.5
Colorado	66	Colorado	Boulder	89,383	67.6
Colorado	72	Colorado	Broomfield	53,355	52.2
Colorado	747	Colorado	Arapahoe	25,714	73.33
Colorado	843	Colorado	Eagle	30,714	85
Colorado	844	Colorado	Eagle	19,286	90
Colorado	845	Colorado	Summit	14,286	83
Connecticut	1079	Connecticut	New Haven	228,000	59
Connecticut	1163	Connecticut	New London	22,000	60
Connecticut	291	Connecticut	Fairfield	75,000	62.2
Connecticut	832	Connecticut	New London	40,000	new site
Connecticut	534	Connecticut	Fairfield	100,000	52.6
Connecticut	771	Connecticut	Fairfield	120,000	new site
Connecticut	771	Connecticut	Fairfield	120,000	50.4
Connecticut	832	Connecticut	New London	40,000	N/A
Connecticut	1196	Connecticut	New Haven	19,500	52.4
Connecticut	686	Connecticut	New Haven	112,000	48.4
Connecticut	806	Connecticut	Fairfield	65,000	75.25
Connecticut	806	Connecticut	Fairfield	65,000	new site
Connecticut	795	Connecticut	Windham	10,000	new site
District of Columbia	486	District of Columbia	District Of Columbia	1,600,000	new site
District of Columbia	486	District of Columbia	District Of Columbia	1,600,000	48.6
Florida	511	Florida	Pinellas	103,000	62.8
Florida	574	Florida	Pinellas	220,000	69
Florida	670	Florida	Orange	59,587	81.8
Florida	671	Florida	Orange	463,672	80
Florida	781	Florida	Miami-Dade	776,150	new site
Florida	1144	Florida	Orange, Seminole	51,000	79.4
Florida	1145	Florida	Seminole	43,010	78
Florida	669	Florida	Orange	277,823	37.6
Florida	706	Florida	Escambia	197,000	77.8
Florida	711	Florida	Miami-Dade	829,725	22.4
Florida	781	Florida	Miami-Dade	776,150	34.2
Florida	711	Florida	Miami-Dade	829,725	N/A
Florida	829	Florida	Monroe	50,000	new site
Florida	574	Florida	Pinellas	220,000	new site
Florida	668	Florida	Miami-Dade	920,528	24
Florida	490	Florida	Brevard	10,500	N/A
Georgia	1109	Georgia	Lowndes	65,000	84.5
Georgia	476	Georgia	Richmond	197,191	new site
Georgia	476	Georgia	Richmond	197,191	new site
Georgia	684	Georgia	Dekalb	325,000	52
Georgia	1071	Georgia	Paulding	10,000	89.8
Georgia	1074	Georgia	Paulding	8,000	87.6
Georgia	684	Georgia	Dekalb	300,000	N/A
Georgia	1072	Georgia	Gwinnett	650,000	91.8
Georgia	1169	Georgia	Clarke	56,500	71.4
Georgia	1073	Georgia	Cobb	190,000	85.17
Georgia	1309	Georgia	Newton	32,000	71.2
Hawaii	1203	Hawaii	Honolulu	300,000	33.8
Hawaii	1205	Hawaii	Maui	49,000	55.17
Hawaii	1221	Hawaii	Hawaii	32,600	45.2
Hawaii	1175	Hawaii	Maui	52,000	34.5
Hawaii	710	Hawaii	Kauai	10,000	40
Hawaii	710	Hawaii	Kauai	10,000	new site
Hawaii	790	Hawaii	Honolulu	700,000	58.4
Hawaii	798	Hawaii	Honolulu	48,519	38.4
Hawaii	1181	Hawaii	Maui	59,000	38.2
Hawaii	1204	Hawaii	Honolulu	109,236	30.6
Hawaii	1208	Hawaii	Honolulu	20,800	43
Hawaii	1286	Hawaii	Kauai	6,900	new site
Hawaii	1337	Hawaii	Hawaii	5,000	new site
Idaho	1067	Idaho	Twin Falls	48,951	N/A
Idaho	1225	Idaho	Bingham	14,045	68.83
Idaho	1227	Idaho	Bannock	75,000	82
Idaho	1228	Idaho	Caribou	3,200	47.2
Idaho	819	Idaho	Latah	24,000	N/A
Idaho	1066	Idaho	Bonneville	60,000	N/A
Idaho	1129	Idaho	Kootenai	38,500	N/A
Idaho	1347	Idaho	Minidoka	6,200	new site
Idaho	992	Idaho	Ada	167,500	61
Idaho	818	Idaho	Ada	120,344	56.57
Illinois	462	Illinois	Winnebago	240,000	52.4
Illinois	546	Illinois	Kankakee	65,000	62.6
Illinois	683	Illinois	Cook	161,000	45.2
Illinois	596	Illinois	Cook	160,735	new site
Illinois	1243	Illinois	Du Page	76,324	38.5
Illinois	1252	Illinois	Du Page	59,805	47.5
Illinois	605	Illinois	Saint Clair	26,150	74
Illinois	615	Illinois	Randolph	6,814	N/A
Illinois	616	Illinois	Christian	12,663	83.6
Illinois	619	Illinois	Vermilion	30,479	83.25
Illinois	622	Illinois	Effingham	12,384	65.5
Illinois	624	Illinois	Stephenson	27,218	67.4
Illinois	627	Illinois	Morgan	23,818	81.75
Illinois	628	Illinois	Kankakee	56,317	72.2
Illinois	631	Illinois	Mcdonough	22,004	72.4
Illinois	635	Illinois	Cook	1,134,897	58.18
Illinois	636	Illinois	Cook	110,394	58.14
Illinois	638	Illinois	Cook	1,127,736	42.91
Illinois	641	Illinois	Cook	217,106	60.86
Illinois	643	Illinois	Lake	55,735	60.33
Illinois	644	Illinois	Lake	105,208	68
Illinois	645	Illinois	Lake	126,629	65.5
Illinois	647	Illinois	Peoria	157,379	67.4
Illinois	654	Illinois	Whiteside	18,678	71.4
Illinois	655	Illinois	Champaign	91,041	75.6
Illinois	675	Chicago	Cook	54,458	58.2

Illinois	731	Moultrie	5,223	66.6
Illinois	732	Livingston	4,959	71
Illinois	894	Ottawa	15,115	69.4
Illinois	895	Lee	10,164	69.3
Illinois	896	Bureau	9,970	68.1
Illinois	930	Knox	20,500	69.8
Illinois	931	Henry	25,540	69.9
Illinois	1962	Kendall	210,670	52
Illinois	1963	De Kalb	105,160	47.9
Illinois	1246	Douglas	10,250	66.9
Illinois	1247	Edgar	16,600	67.4
Illinois	1316	Bond	10,000	66.6
Illinois	1317	Clay	13,000	66.7
Illinois	462	Macoupin	39,539	67.6
Illinois	463	Jersey	22,000	67
Illinois	464	Calhoun	5,464	67
Illinois	675	Chicago	203,379	60.6
Illinois	676	Chicago	203,379	60.6
Illinois	364	Du Page	18,800	69.4
Illinois	365	Du Page	18,800	69.4
Illinois	603	Kane	11,290	65.25
Illinois	604	Kane	11,290	65.25
Illinois	607	Boone	41,330	61.25
Illinois	608	Boone	41,330	61.25
Illinois	612	Greene	3,004	77.4
Illinois	613	Greene	3,004	77.4
Illinois	614	Macon	15,746	74.8
Illinois	615	Perry	6,449	84
Illinois	616	Jo Daviess	14,000	69.4
Illinois	630	Cook	270,641	55.75
Illinois	631	Cook	10,616	73.8
Illinois	634	Jefferson	21,100	69.67
Illinois	640	Cook	270,641	55.75
Illinois	641	Du Page	126,358	70
Illinois	642	Du Page	8,982	70.5
Illinois	675	Cook	215,718	55
Illinois	676	Cook	215,718	55
Illinois	677	Kane	16,164	69.5
Illinois	678	Kane	11,290	65.25
Illinois	679	Kane	11,290	65.25
Illinois	680	Cook	215,718	55
Illinois	681	Cook	215,718	55
Illinois	682	Cook	215,718	55
Illinois

New York	693	New York	Ulster	10,577	95
New York	694	New York	Washington	61,012	74
New York	695	New York	Wayne	21,629	84
New York	696	New York	Westchester	1,000,775	95
New York	697	New York	Wyoming	18,915	84
New York	698	New York	Yates	24,621	84
New York	699	New York	Niagara	216,469	184
New York	700	New York	Lewis	3,953	50
New York	701	New York	Saint Lawrence	111,944	50
New York	702	New York	Kings	2,636,735	184
New York	703	New York	Queens	2,272,771	184
New York	704	New York	Bronx	1,385,108	184
New York	705	New York	Richmond	468,730	184
New York	706	New York	Nassau	1,356,924	184
New York	707	New York	Suffolk	1,419,369	184
New York	708	New York	Rockland	311,687	184
New York	709	New York	Westchester	968,815	184
New York	710	New York	Erie	919,040	184
New York	711	New York	Monroe	744,344	184
New York	712	New York	Onondaga	467,026	184
New York	713	New York	Orange	372,813	184
New York	714	New York	Dutchess	297,488	184
New York	715	New York	Albany	304,204	184
New York	716	New York	Saratoga	230,314	184
New York	717	New York	Schenectady	154,727	184
New York	718	New York	Oneida	232,189	184
New York	719	New York	Broome	200,536	184
New York	720	New York	Tompkins	101,564	184
New York	721	New York	Chemung	88,830	184
New York	722	New York	Clinton	82,128	184
New York	723	New York	Franklin	51,599	184
New York	724	New York	Jefferson	116,851	184
New York	725	New York	Oswego	122,377	184
New York	726	New York	Cayuga	76,756	184
New York	727	New York	Ontario	109,992	184
New York	728	New York	Seneca	34,314	184
New York	729	New York	Yates	25,348	184
New York	730	New York	Steuben	95,755	184
New York	731	New York	Chautauqua	127,095	184
New York	732	New York	Cattaraugus	76,099	184
New York	733	New York	Allegany	47,070	184
New York	734	New York	Genesee	57,486	184
New York	735	New York	Wyoming	39,369	184
New York	736	New York	Livingston	62,851	184
New York	737	New York	Wayne	93,772	184
New York	738	New York	Schuyler	18,343	184
New York	739	New York	Chenango	50,477	184
New York	740	New York	Madison	73,442	184
New York	741	New York	Cortland	49,336	184
New York	742	New York	Herkimer	64,427	184
New York	743	New York	Otsego	59,980	184
New York	744	New York	Delaware	47,980	184
New York	745	New York	Sullivan	77,547	184
New York	746	New York	Ulster	181,851	184
New York	747	New York	Warren	65,707	184
New York	748	New York	Washington	63,351	184
New York	749	New York	Essex	39,851	184
New York	750	New York	Hamilton	4,836	184
New York	751	New York	Fulton	55,531	184
New York	752	New York	Montgomery	49,708	184
New York	753	New York	Schoharie	31,582	184
New York	754	New York	Greene	48,195	184
New York	755	New York	Columbia	63,096	184
New York	756	New York	Rensselaer	159,239	184
New York	757	New York	Saratoga	230,314	184
New York	758	New York	Washington	63,351	184
New York	759	New York	Warren	65,707	184
New York	760	New York	Hamilton	4,836	184
New York	761	New York	Essex	39,851	184
New York	762	New York	Clinton	82,128	184
New York	763	New York	Franklin	51,599	184
New York	764	New York	Jefferson	116,851	184
New York	765	New York	Lewis	3,953	50
New York	766	New York	Saint Lawrence	111,944	50
New York	767	New York	Queens	624,034	184
New York	768	New York	Kings	662,047	184
New York	769	New York	Queens	768,737	184
New York	770	New York	Kings	965,447	184
New York	771	New York	Richmond	226,104	184
New York	772	New York	Bronx	1,385,108	184
New York	773	New York	Nassau	1,356,924	184
New York	774	New York	Suffolk	1,419,369	184
New York	775	New York	Rockland	311,687	184
New York	776	New York	Westchester	968,815	184
New York	777	New York	Erie	919,040	184
New York	778	New York	Monroe	744,344	184
New York	779	New York	Onondaga	467,026	184
New York	780	New York	Orange	372,813	184
New York	781	New York	Dutchess	297,488	184
New York	782	New York	Albany	304,204	184
New York	783	New York	Saratoga	230,314	184
New York	784	New York	Schenectady	154,727	184
New York	785	New York	Oneida	232,189	184
New York	786	New York	Broome	200,536	184
New York	787	New York	Tompkins	101,564	184
New York	788	New York	Chemung	88,830	184
New York	789	New York	Niagara	216,469	184
New York	790	New York	Cayuga	76,756	184
New York	791	New York	Ontario	109,992	184
New York	792	New York	Seneca	34,314	184
New York	793	New York	Yates	25,348	184
New York	794	New York	Steuben	95,755	184
New York	795	New York	Chautauqua	127,095	184
New York	796	New York	Cattaraugus	76,099	184
New York	797	New York	Allegany	47,070	184
New York	798	New York	Genesee	57,486	184
New York	799	New York	Wyoming	39,369	184
New York	800	New York	Livingston	62,851	184
New York	801	New York	Wayne	93,772	184
New York	802	New York	Schuyler	18,343	184
New York	803	New York	Chenango	50,477	184
New York	804	New York	Madison	73,442	184
New York	805	New York	Cortland	49,336	184
New York	806	New York	Herkimer	64,427	184
New York	807	New York	Otsego	59,980	184
New York	808	New York	Delaware	47,980	184
New York	809	New York	Sullivan	77,547	184
New York	810	New York	Ulster	181,851	184
New York	811	New York	Warren	65,707	184
New York	812	New York	Washington	63,351	184
New York	813	New York	Essex	39,851	184
New York	814	New York	Hamilton	4,836	184
New York	815	New York	Fulton	55,531	184
New York	816	New York	Montgomery	49,708	184
New York	817	New York	Schoharie	31,582	184
New York	818	New York	Greene	48,195	184
New York	819	New York	Columbia	63,096	184
New York	820	New York	Rensselaer	159,239	184
New York	821	New York	Saratoga	230,314	184
New York	822	New York	Washington	63,351	184
New York	823	New York	Warren	65,707	184
New York	824	New York	Hamilton	4,836	184
New York	825	New York	Essex	39,851	184
New York	826	New York	Clinton	82,128	184
New York	827	New York	Franklin	51,599	184
New York	828	New York	Jefferson	116,851	184
New York	829	New York	Lewis	3,953	50
New York	830	New York	Saint Lawrence	111,944	50
New York	831	New York	Queens	624,034	184
New York	832	New York	Kings	662,047	184
New York	833	New York	Queens	768,737	184
New York	834	New York	Kings	965,447	184
New York	835	New York	Richmond	226,104	184
New York	836	New York	Bronx	1,385,108	184
New York	837	New York	Nassau	1,356,924	184
New York	838	New York	Suffolk	1,419,369	184
New York	839	New York	Rockland	311,687	184
New York	840	New York	Westchester	968,815	184
New York	841	New York	Erie	919,040	184
New York	842	New York	Monroe	744,344	184
New York	843	New York	Onondaga	467,026	184
New York	844	New York	Orange	372,813	184
New York	845	New York	Dutchess	297,488	184
New York	846	New York	Albany	304,204	184
New York	847	New York	Saratoga	230,314	184
New York	848	New York	Schenectady	154,727	184
New York	849	New York	Oneida	232,189	184
New York	850	New York	Broome	200,536	184
New York	851	New York	Tompkins	101,564	184
New York	852	New York	Chemung	88,830	184
New York	853	New York	Niagara	216,469	184
New York	854	New York	Cayuga	76,756	184
New York	855	New York	Ontario	109,992	184
New York	856	New York	Seneca	34,314	184
New York	857	New York	Yates	25,348	184
New York	858	New York	Steuben	95,755	184
New York	859	New York	Chautauqua	127,095	184
New York	860	New York	Cattaraugus	76,099	184
New York	861	New York	Allegany	47,070	184
New York	862	New York	Genesee	57,486	184
New York	863	New York	Wyoming	39,369	184
New York	864	New York	Livingston	62,851	184
New York	865	New York	Wayne	93,772	184
New York	866	New York	Schuyler	18,343	184
New York	867	New York	Chenango	50,477	184
New York	868	New York	Madison	73,442	184
New York	869	New York	Cortland	49,336	184
New York	870	New York	Herkimer	64,427	184
New York	871	New York	Otsego	59,980	184
New York	872	New York	Delaware	47,980	184
New York	873	New York	Sullivan	77,547	184
New York	874	New York	Ulster	181,851	184
New York	875	New York	Warren	65,707	184
New York	876	New York	Washington	63,351	184
New York	877	New York	Essex	39,851	184
New York	878	New York	Hamilton	4,836	184
New York	879	New York	Fulton	55,531	184
New York	880	New York	Montgomery	49,708	184
New York	881	New York	Schoharie	31,582	184
New York	882	New York	Greene	48,195	184
New York	883	New York	Columbia	63,096	184
New York	884	New York	Rensselaer	159,239	184
New York	885	New York	Saratoga	230,314	184
New York	886	New York	Washington	63,351	184
New York	887	New York	Warren	65,707	184
New York	888	New York	Hamilton	4,836	184
New York	889	New York	Essex	39,851	184
New York	890	New York	Clinton	82,128	184
New York	891	New York	Franklin	51,599	184
New York	892	New York	Jefferson	116,851	184
New York	893	New York	Lewis	3,953	50
New York	894	New York	Saint Lawrence	111,944	50
New York	895	New York	Queens	624,034	184
New York	896	New York	Kings	662,047	184
New York	897	New York	Queens	768,737	184
New York	898	New York	Kings	965,447	184
New York	899	New York	Richmond	226,104	184
New York	900	New York	Bronx	1,385,108	184
New York	901	New York	Nassau	1,356,924	184
New York	902	New York	Suffolk	1,419,369	184
New York	903	New York	Rockland	311,687	184
New York	904	New York	Westchester	968,815	184
New York	905	New York	Erie	919,040	184
New York	906	New York	Monroe	744,344	184
New York	907	New York	Onondaga	467,026	184
New York	908	New York	Orange	372,813	184
New York	909	New York	Dutchess	297,488	184
New York	910	New York	Albany	304,204	184
New York	911	New York	Saratoga	230,314	184
New York	912	New York	Schenectady	154,727	184
New York	913	New York	Oneida	232,189	184
New York	914	New York	Broome	200,536	184
New York	915	New York	Tompkins	101,564	184
New York	916	New York	Chemung	88,830	184
New York	917	New York	Niagara	216,469	184
New York	918	New York	Cayuga	76,756	184
New York	919	New York	Ontario	109,992	184
New York	920	New York	Seneca	34,314	184
New York	921	New York	Yates	25,348	184
New York	922	New York	Steuben	95,755	184
New York	923	New York	Chautauqua	127,095	184
New York	924	New York	Cattaraugus	76,099	184
New York	925	New York	Allegany	47,070	184
New York	926	New York	Genesee	57,486	184
New York	927	New York	Wyoming	39,369	184
New York	928	New York	Livingston	62,851	184
New York	929	New York	Wayne	93,772	184
New York	930	New York	Schuyler	18,343	184
New York	931	New York	Chenango	50,477	184
New York	932	New York	Madison	73,442	184
New York	933	New York	Cortland	49,336	184
New York	934	New York	Herkimer	64,427	184
New York	935	New York	Otsego	59,980	184
New York	936	New York	Delaware	47,980	184
New York	937	New York	Sullivan	77,547	184
New York	938	New York	Ulster	181,851	184
New York	939	New York	Warren	65,707	184
New York	940	New York	Washington	63,351	184
New York	941	New York	Essex	39,851	184
New York	942	New York	Hamilton	4,836	184
New York	943	New York	Fulton	55,531	184
New York	944	New York	Montgomery	49,708	184
New York	945	New York	Schoharie	31,582	184
New York	946	New York	Greene	48,195	184
New York	947	New York	Columbia	63,096	184
New York	948	New York	Rensselaer	159,239	184
New York	949	New York	Saratoga	230,314	184
New York	950	New York	Washington	63,351	184
New York	951	New York	Warren	65,707	184
New York	952	New York	Hamilton	4,836	184
New York	953	New York	Essex	39,851	184
New York	954	New York	Clinton	82,128	184
New York	955	New York	Franklin	51,599	184
New York	956	New York	Jefferson	116,851	184
New York	957	New York	Lewis	3,953	50
New York	958	New York	Saint Lawrence	111,944	50
New York	959	New York	Queens	624,034	184
New York	960	New York	Kings	662,047	184
New York	961	New York	Queens	768,737	184
New York	962	New York	Kings	965,447	184
New York	963	New York	Richmond	226,104	184
New York	964	New York	Bronx	1,385,108	184
New York	965	New York	Nassau	1,356,924	184
New York	966	New York	Suffolk	1,419,369	184
New York	967	New York	Rockland	311,687	184
New York	968	New York	Westchester	968,815	184
New York	969	New York	Erie	919,040	184
New York	970	New York	Monroe	744,344	184
New York	971	New York	Onondaga	467,026	184
New York	972	New York	Orange	372,813	184
New York	973	New York	Dutchess	297,488	184
New York	974	New York	Albany	304,204	184
New York	975	New York	Saratoga	230,314	184
New York	976	New York	Schenectady	154,727	184
New York	977	New York	Oneida	232,189	184
New York	978	New York	Broome	200,536	184
New York	979	New York	Tompkins	101,564	184
New York	980	New York	Chemung	88,830	184
New York	981	New York	Niagara	216,469	184
New York	982	New York	Cayuga	76,756	184
New York	983	New York	Ontario	109,992	184
New York	984	New York	Seneca	34,314	184
New York	985	New York	Yates	25,348	184
New York	986	New York	Steuben	95,755	184
New York	987	New York	Chautauqua	127,095	184
New York	988	New York	Cattaraugus	76,099	184
New York	989	New York	Allegany	47,070	184
New York	990	New York	Genesee	57,486	184
New York	991	New York	Wyoming	39,369	184
New York	992	New York	Livingston	62,851	184
New York	993	New York	Wayne	93,772	184
New York	994	New York	Schuyler	18,343	184
New York	995	New York	Chenango	50,477	184
New York	996	New York	Madison	73,442	184
New York	997	New York	Cortland	49,336	184
New York	998	New York	Herkimer	64,427	184
New York	999	New York	Otsego	59,980	184
New York	1000	New York	Delaware	47,980	184
New York	1001	New York	Sullivan	77,547	184
New York	1002	New York	Ulster	181,851	184
New York	1003	New York	Warren	65,707	184
New York	1004	New York	Washington	63,351	184
New York	1005	New York	Essex	39,851	184
New York	1006	New York	Hamilton	4,836	184
New York	1007	New York	Fulton	55,531	184
New York	1008	New York	Montgomery	49,708	184
New York	1009	New York	Schoharie	31,582	184
New York	1010	New York	Greene	48,195	184
New York	1011	New York	Columbia	63,096	184
New York	1012	New York	Rensselaer	159,239	184
New York	1013	New York	Saratoga	230,314	184
New York	1014	New York	Washington	63,351	184
New York	1015	New York	Warren	65,707	184
New York	1016	New York	Hamilton	4,836	184
New York	1017	New York	Essex	39,851	184
New York	1018	New York	Clinton	82,128	184
New York	1019	New York	Franklin	51,599	184
New York	1020	New York	Jefferson	116,851	184
New York	1021	New York	Lewis	3,953	50
New York	1022	New York	Saint Lawrence	111,944	50
New York	1023	New York	Queens	624,034	184
New York	1024	New York	Kings	662,047	184
New York	1025	New York	Queens	768,737	184
New York	1026	New York	Kings	965,447	184
New York	1027	New York	Richmond	226,104	184
New York	1028	New York	Bronx	1,385,108	184
New York	1029	New York	Nassau	1,356,924	184
New York	1030	New York	Suffolk	1,419,369	184
New York	1031	New York	Rockland	311,687	184
New York	1032	New York	Westchester	968,815	184
New York	1033	New York	Erie	919,040	184
New York	1034	New York	Monroe	744,344	184
New York	1035	New York	Onondaga	467,026	184
New York	1036	New York	Orange	372,813	184
New York	1037	New York	Dutchess	297,488	184
New York	1038	New York	Albany	304,204	184
New York	1039	New York	Saratoga	230,314	184
New York	1040	New York	Schenectady	154,727	184
New York	1041	New York	Oneida	232,189	184
New York	1042	New York	Broome	200,536	184
New York	1043	New York	Tompkins	101,564	184
New York	1044	New York	Chemung	88,830	184
New York	1045	New York	Niagara	216,469	184
New York	1046	New York	Cayuga	76,756	184
New York	1047	New York	Ontario	109,992	184
New York	1048	New York	Seneca	34,314	184
New York	1049	New York	Yates	25,348	184
New York	1050	New York	Steuben	95,755	184
New York	1051	New York	Chautauqua	127,095	184
New York	1052	New York	Cattaraugus	76,099	184
New York	1053	New York	Allegany	47,070	184
New York	1054	New York	Genesee	57,486	184
New York	1055	New York	Wyoming	39,369	184
New York	1056	New York	Livingston	62,851	184
New York	1057	New York	Wayne	93,772	184
New York	1058	New York	Schuyler	18,343	184
New York	1059	New York	Chenango	50,477	184
New York	1060	New York	Madison	73,442	184
New York	1061	New York	Cortland	49,336	184
New York	1062	New York	Herkimer	64,427	184
New York	1063	New York	Otsego	59,980	184
New York	1064	New York	Delaware	47,980	184
New York	1065	New York	Sullivan	77,547	184
New York	1066	New York	Ulster	181,851	184
New York	1067	New York	Warren	65,707	184
New York	1068	New York	Washington	63,351	184
New York	1069	New York	Essex	39,851	184
New York	1070	New York	Hamilton	4,836	184
New York	1071	New York	Fulton	55,531	184
New York	1072	New York	Montgomery	49,708	184
New York	1073	New York	Schoharie	31,582	184
New York	1074	New York	Greene	48,195	184
New York	1075	New York	Columbia	63,096	184
New York	1076	New York	Rensselaer	159,239	184
New York	1077	New York	Saratoga	230,314	184
New York	1078	New York	Washington	63,351	184
New York	1079	New York	Warren	65,707	184
New York	1080	New York	Hamilton	4,836	184
New York	1081	New York	Essex	39,851	184
New York	1082	New York	Clinton	82,128	184
New York	1083	New York	Franklin	51,599	184
New York	1084	New York	Jefferson	116,851	184
New York	1085	New York	Lewis	3,953	50
New York	1086	New York	Saint Lawrence	111,944	50
New York	1087	New York	Queens	624,034	184
New York	1088	New York	Kings	662,047	184
New York	1089	New York	Queens	768,737	184
New York	1090	New York	Kings	965,447	184
New York	1091	New York	Richmond	226,104	184
New York	1092	New York	Bronx	1,385,108	184
New York	1093	New York	Nassau	1,356,924	184
New York	1094	New York	Suffolk	1,419,369	184
New York	1095	New York	Rockland	311,687	184
New York	1096	New York	Westchester	968,815	184
New York	1097	New York	Erie	919,040	184
New York	1098	New York	Monroe	744,344	184
New York	1099	New York	Onondaga	467,026	184
New York	1100	New York	Orange	372,813	184
New York	1101	New York	Dutchess	297,488	184
New York	1102	New York	Albany	304,204	184
New York	1103	New York	Saratoga	230,314	184
New York	1104	New York	Schenectady	154,727	184
New York	1105	New York	Oneida	232,189	184
New York	1106	New York	Broome	200,536	184
New York	1107	New York	Tompkins	101,564	184
New York	1108	New York	Chemung	88,830	184
New York	1109	New York	Niagara	216,469	184
New York	1110	New York	Cayuga	76,756	184
New York	1111	New York	Ontario	109,992	184
New York	1112	New York	Seneca	34,314	184
New York	1113	New York	Yates	25,348	184
New York	1114	New York	Steuben	95,755	184
New York	1115	New York	Chautauqua	127,095	184
New York	1116	New York	Cattaraugus	76,099	184
New York	1117	New York	Allegany	47,070	184
New York	1118	New York	Genesee	57,486	184
New York	1119	New York	Wyoming	39,369	184
New York	1120	New York	Livingston	62,851	184
New York	1121	New York	Wayne	93,772	184
New York	1122	New York	Schuyler	18,343	184
New York	1123	New York	Chenango	50,477	184
New York	1124	New York	Madison	73,442	184
New York	1125	New York	Cortland	49,336	184
New York	1126	New York	Herkimer	64,427	184
New York	1127	New York	Otsego	59,980	184
New York	1128	New York	Delaware	47,980	184
New York	1129	New York	Sullivan	77,547	184
New York	1130	New York	Ulster	181,851	184
New York	1131	New York	Warren	65,707	184
New York	1132	New York	Washington	63,351	184
New York	1133	New York	Essex	39,851	184
New York	1134	New York	Hamilton	4,836	184
New York	1135	New York	Fulton	55,531	184
New York	1136	New York	Montgomery	49,708	184
New York	1137	New York	Schoharie	31,582	184
New York	1138	New York	Greene	48,195	184
New York	1139	New York	Columbia	63,096	184
New York	1140	New York	Rensselaer	159,239	184
New York	1141	New York	Saratoga	230,314	184
New York	1142	New York	Washington	63,351	184
New York	1143	New York	Warren	65,707	184
New York	1144	New York	Hamilton	4,836	184
New York	1145	New York	Essex	39,851	184
New York	1146	New York	Clinton	82,128	184
New York	1147	New York	Franklin	51,599	184
New York	1148	New York	Jefferson	116,851	184
New York	1149	New York	Lewis	3,953	50
New York	1150	New York	Saint Lawrence	111,944	50
New York	1151	New York	Queens	624,034	184
New York	1152	New York	Kings	662,047	184
New York	1153	New York	Queens	768,737	184
New York	1154	New York	Kings	965,447	184
New York	1155	New York	Richmond	226,104	184
New York	1156	New York	Bronx	1,385,108	184
New York	1157	New York	Nassau	1,356,924	184
New York	1158	New York	Suffolk	1,419,369	184
New York	1159	New York	Rockland	311,687	184
New York	1160	New York	Westchester	968,815	184
New York	1161	New York	Erie	919,040	184
New York	1162	New York	Monroe	744,344	184
New York	1163	New York	Onondaga	467,026	184
New York	1164	New York	Orange	372,813	184
New York	1165	New York	Dutchess	297,488	184
New York	1166	New York	Albany	304,204	184
New York	1167	New York	Saratoga	230,314	184
New York	1168	New York	Schenectady	154,727	184
New York	1169	New York	Oneida	232,189	184
New York	1170	New York	Broome	200,536	184
New York	1171	New York	Tompkins	101,564	184
New York	1172	New York	Chemung	88,830	184
New York	1173	New York	Niagara	216,469	184
New York	1174	New York	Cayuga	76,756	184
New York	1175	New York	Ontario	109,992	184
New York	1176	New York	Seneca	34,314	184
New York	1177	New York	Yates	25,348	184
New York	1178	New York	Steuben	95,755	184
New York	1179	New York	Chautauqua	127,095	184
New York	1180	New York	Cattaraugus	76,099	184
New York	1181	New York	Allegany	47,070	184
New York	1182	New York	Genesee	57,486	184
New York	1183	New York	Wyoming	39,369	184
New York	1184	New York	Livingston	62,851	184
New York	1185	New York	Wayne	93,772	184
New York	1186	New York	Schuyler	18,343	184
New York	1187	New York	Chenango	50,477	184
New York	1188	New York	Madison	73,442	184
New York	1189	New York	Cortland	49,336	184
New York	1190	New York	Herkimer	64,427	184
New York	1191	New York	Otsego	59,980	184
New York	1192	New York	Delaware	47,980	184
New York	1193	New York	Sullivan	77,547	184
New York	1194	New York	Ulster	181,851	184
New York	1195	New York	Warren	65,707	184
New York	1196	New York	Washington	63,351	184
New York	1197	New York	Essex	39,851	184
New York	1198	New York	Hamilton	4,836	184
New York	1199	New York	Fulton	55,531	184
New York	1200	New York	Montgomery	49,708	184
New York	1201	New York	Schoharie	31,582	184
New York	1202	New York	Greene	48,195	184
New York	1203	New York	Columbia	63,096	184
New York	1204	New York	Rensselaer	159,239	184
New York	1205	New York	Saratoga	230,314	184
New York	1206	New York	Washington	63,351	184
New York	1207	New York	Warren	65,707	184
New York	1208	New York	Hamilton	4,836	184
New York	1209	New York	Essex	39,851	184
New York	1210	New York	Clinton	82,128	184
New York	1211	New York	Franklin	51,599	184
New York	1212	New York	Jefferson	116,851	184
New York	1213	New York	Lewis	3,953	50
New York	1214	New York	Saint Lawrence	111,944	50
New York	1215	New York	Queens	624,034	184
New York	1216	New York	Kings	662,047	184
New York	1217	New York	Queens	768,737	184
New York	1218	New York	Kings	965,447	184
New York	1219	New York	Richmond	226,104	184
New York	1220	New York	Bronx	1,385,108	184
New York	1221	New York	Nassau	1,356,924	184
New York	1222	New York	Suffolk	1,419,369	184
New York	1223	New York	Rockland	311,687	184
New York	1224	New York	Westchester	968,815	184
New York	1225	New York	Erie	919,040	184
New York	1226	New York	Monroe	744,344	184
New York	1227	New York	Onondaga	467,026	184
New York	1228	New York	Orange	372,813	184
New York	1229	New York	Dutchess	297,488	184
New York	1230	New York	Albany	304,204	184
New York	1231	New York	Saratoga	230,314	184
New York	1232	New York	Schenectady	154,727	184
New York	1233	New York	Oneida	232,189	184
New York	1234	New York	Broome	200,536	184
New York	1235	New York	Tompkins	101,564	184
New York	1236	New York	Chemung	88,830	184
New York	1237	New York	Niagara	216,469	184
New York	1238	New York	Cayuga	76,756	184
New York	1239	New York	Ontario	109,992	184
New York	1240	New York	Seneca	34,314	184
New York	1241	New York	Yates	25,348	184
New York	1242	New York	Steuben	95,755	184
New York	1243	New York	Chautauqua	127,095	184
New York	1244	New York	Cattaraugus	76,099	184
New York	1245	New York	Allegany	47,070	184
New York	1246	New York	Genesee	57,486	184
New York	1247	New York	Wyoming	39,369	184
New York	1248	New York	Livingston	62,851	184
New York	1249	New York	Wayne	93,772	184
New York	1250	New York	Schuyler	18,343	184
New York	1251	New York	Chenango	50,477	184
New York	1252	New York	Madison	73,442	184
New York	1253	New York	Cortland	49,336	184
New York	1254	New York	Herkimer	64,427	184
New York	1255	New York	Otsego	59,980	184
New York	1256	New York	Delaware	47,980	184
New York	1257	New York	Sullivan	77,547	184
New York	1258	New York	Ulster	181,851	184
New York	1259	New York	Warren	65,707	184
New York	1260	New York	Washington	63,351	184
New York	1261	New York	Essex	39,851	184
New York	1262	New York	Hamilton	4,836	184
New York	1263	New York	Fulton	55,531	184
New York	1264	New York	Montgomery	49,708	184
New York	1265	New York	Schoharie	31,582	184
New York	1266	New York	Greene	48,195	184
New York	1267	New York	Columbia	63,096	184
New York	1268	New York	Rensselaer

Virginia	51	Loudoun	10,178
Virginia	53	Prince William County, Virginia Beach City, Norfolk City	138,848
Virginia	57	Norfolk City, Virginia Beach City, Chesapeake City, Portsmouth City	98,147
Virginia	58	Newport News City, Hampton City, Gloucester, Newport News City, Poquoson City	99,112
Virginia	59	Hanover	20,000
Virginia	61	Frederick	55,476
Virginia	63	Clifton Forge City	5,000
Virginia	69	Hanover	20,000
Virginia	73	Wise	14,000
Virginia	77	Montgomery	23,000
Virginia	79	Washington	7,000
Virginia	80	Chesapeake City, Virginia Beach City, Norfolk City, Portsmouth City	192,347
Virginia	81	Amherst, Bedford, Campbell	220,000
Virginia	86	Montgomery City, Rockingham	81,000
Virginia	96	Botetourt, Roanoke, Roanoke City, Salem	92,000
Virginia	97	Prince William, Stafford	92,000
Virginia	98	Blue Ridge Mtns	7,000
Virginia	102	Hampton City, Norfolk City	78,322
Virginia	104	Newport News City, Hampton City	118,497
Virginia	106	James City, York, Hampton City, Newport News City	7,000
Virginia	113	Virginia Beach City	207,627
Virginia	118	Wise	9,340
Virginia	119	Gloucester, York, Mathews	99,112
Virginia	127	Franklin	5,000
Virginia	467	Hanover	10,000
Virginia	468	Hanover	4,721
Virginia	892	Dinwiddie	71,416
Virginia	893	Wise	14,000
Virginia	177	Chesapeake City, Virginia Beach City, Isle of Wight, Suffolk City	343,014
Virginia	178	Chesapeake City, Portsmouth City, Suffolk City	197,608
Virginia	179	James City, York, Newport News City, New Kent, Williamsburg City	69,059
Virginia	262	Albemarle	118,266
Virginia	308	Frederick	16,563
Virginia	309	Bedford, Pulaski, Montgomery	20,000
Virginia	342	Richmond City, Goochland, Henrico	225,000
Virginia	38	Alexandria City, Fairfax	16,950
Virginia	410	Prince William, Fauquier, Manassas Park City, Fairfax City, Fairfax City, Loudoun, Manassas City	350,000
Virginia	586	Portsmouth City, Chesapeake City, Suffolk City, Isle Of Wight	197,608
Virginia	588	James City, York, Newport News City, New Kent, Williamsburg City	69,059
Virginia	589	Montgomery	23,000
Washington	1084	Washington	126,000
Washington	1142	Washington	126,000
Washington	1143	Washington	162,100
Washington	510	Washington	85,140
Washington	511	Snohomish	20,000
Washington	676	Snohomish, King	286,000
Washington	677	Snohomish	16,950
Washington	804	Washington	16,950
Washington	502	Washington	6,875
Washington	503	Snohomish	70,500
Washington	708	Snohomish	3,700
Washington	709	Snohomish	16,600
Washington	755	Benton	15,000
Washington	758	Benton	83,000
Washington	759	Snohomish	37,450
Washington	504	Clallam	120,000
Washington	505	Clallam	25,457
Washington	99	Clallam	25,457
Washington	666	Franklin	73,000
Washington	759	Spokane	225,000
Washington	1139	King, Pierce	896,000
Washington	499	Clark	162,100
Washington	510	Washington	85,140
Washington	511	Clark	7,125
Washington	768	Snohomish	173,800
Washington	676	Washington	286,000
Washington	677	Clallam	35,150
Washington	1143	Washington	43,000
Washington	1144	Snohomish	120,000
Washington	504	Clallam	120,000
Washington	505	Clallam	25,457
Washington	99	Clallam	25,457
Washington	666	Franklin	73,000
Washington	759	Spokane	225,000
Washington	1139	King, Pierce	896,000
Washington	499	Clark	162,100
Washington	510	Washington	85,140
Washington	511	Clark	7,125
Washington	768	Snohomish	173,800
Washington	676	Washington	286,000
Washington	677	Clallam	35,150
Washington	1143	Washington	43,000
Washington	1144	Snohomish	120,000
West Virginia	582	Wood	48,050
West Virginia	464	Wood	36,000
West Virginia	601	Wayne, Cabell	56,000
West Virginia	602	Taylor	6,071
West Virginia	680	Wayne	18,000
West Virginia	681	Raleigh	25,000
West Virginia	460	Jefferson	17,000
West Virginia	687	Wayne, Harrison	26,498
West Virginia	789	Wayne, Cabell	88,900
West Virginia	206	Wirt	8,168
West Virginia	207	Wayne, Cabell	50,000
West Virginia	912	Wayne, Brooke	6,000
Wisconsin	115	Waupaca	14,000
Wisconsin	152	Columbia	4,900
Wisconsin	153	Waukesha	51,000
Wisconsin	154	Washington, Dodge	17,020
Wisconsin	223	Columbia	3,100
Wisconsin	246	Juneau	4,400
Wisconsin	247	Jefferson, Waukesha	7,000
Wisconsin	331	Racine	139,000
Wisconsin	332	Kenosha	7,400
Wisconsin	389	Portage	27,000
Wisconsin	391	Douglas	28,000
Wisconsin	447	Jefferson, Walworth	14,500
Wisconsin	136	Chippewa, Eau Claire	73,000
Wisconsin	187	Adams, Juneau	14,000
Wisconsin	231	Dane	345,000
Wisconsin	232	Waukesha	34,500
Wisconsin	236	Marinette	11,000
Wisconsin	239	Marathon, Wood	19,300
Wisconsin	240	Brown, Outagamie	15,000
Wisconsin	318	Grant	11,000
Wisconsin	344	Eau Claire, Pierce	15,900
Wisconsin	364	Sheboygan	75,000
Wisconsin	365	Dane	33,000
Wisconsin	420	Wisconsin	4,400
Wisconsin	431	Waukesha	72,000
Wisconsin	432	Ashland	8,200
Wisconsin	60	Jackson	5,000
Wisconsin	66	Waukesha, Dodge	23,660
Wisconsin	1277	Dane	360,000
Wisconsin	473	Wood	19,684
Wisconsin	136	Wood	43,000
Wisconsin	164	Brown, Kewaunee	185,000
Wisconsin	165	Kewaunee	22,000
Wisconsin	209	La Crosse	85,000
Wisconsin	244	Brown, Door	5,000
Wisconsin	248	Lincoln	9,700
Wisconsin	256	Ozaukee, Milwaukee	197,000
Wisconsin	257	Waukesha, Milwaukee, Racine, Washington, Ozaukee	615,504
Wisconsin	260	Milwaukee	11,000
Wisconsin	302	Winnebago	78,300
Wisconsin	324	Sheboygan	5,150
Wisconsin	325	Columbia	11,000
Wisconsin	41	Outagamie, Winnebago, Calumet	72,810
Wisconsin	433	Marathon	42,350

Terms to Know

Influenza Viruses: 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 wastewater treatment plant. Normalization makes it possible to compare wastewater to historical values for things like changing population sizes or weather events that can impact wastewater. Normalized data can be compared to other normalized data to see how the amount of something in wastewater changes over time. Normalized data can also be compared to other normalized data from other locations. See the NWSS Data Analysis Guide for details.

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 Monday through 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: Daily updates (Mon-Fri) might be delayed due to 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 increased levels, and what percent stayed the same.
- Viewed over time, the chart shows how this distribution changed.
- The "Not Enough Data" category shows how much data is reporting is counted and divided by the total number of sampling sites and indicates how much of information is provided on a particular day. For example, if 50% of sites have 50 percent of sites in each percent change category since January 1, 2021.
- For example, if sites, 1% to 99.9% of the 100 sampling sites reported increased levels of virus, 10 sites reported decreased levels, and 10 sites reported no change, then 80% of sites reported increased levels of virus, 10% of sites reported decreased levels of virus, and 10% of sites reported no change.
- Not all sites have data since January 1, 2021, and not all sites have data for all three categories. Sites with no data are not included in the chart. Sites with no data for a particular category for each date may not add up to 100% due to rounding.

Current virus levels in wastewater by site

- This metric shows the current virus levels at a site are currently higher or lower than past levels at the same site. It is calculated by first ordering the SARS-CoV2 levels in wastewater for all samples collected since December 1, 2020 from the lowest to highest level. The ordered levels are then assigned to five categories (0%-20%, 20%-40%, 40%-60%, 60%-80%, 80%-100%) based on how low or high their levels are compared to previous levels. The levels in the most recent 15 days are then compared to the ordered levels and the percent of the 15 days in each category is reported.
- Using December 1, 2021 as a starting date for all sites makes data more comparable between sites. Sites that began sampling wastewater virus levels after December 1, 2021 are not comparable to sites that have been sampling since December 1, 2021 or earlier because the data history for these new sites is not long enough to reflect the same seasonal trends.
- The "Not Enough Data" category means a site is not collecting wastewater samples or the samples 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 wastewater 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 the last 15 days to the previous 15-day sampling timeline. A large percent increase does necessarily mean SARS-CoV-2 viral levels in wastewater are high. For instance, a change from 1 unit to 2 units would be a 100% increase, but 2 units is still a very low level of virus. Conversely, a 10% increase could be a very large increase in virus if the previous 15-day period had a very high level of virus. For some category 4 sites, the percent SARS-CoV-2 levels. A site must report at least 2 samples over the 15-day period to calculate percent change. Sites with fewer than 2 samples in the most recent 15 days or the two most recent 15-day periods 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 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 at that site over the last 15 days, and multiplying by 100 to get a %.
- Sites with at least one sample with SARS-CoV-2 RNA detections over the past 15 days are listed as "Non-detect" and are shown on the map as hollow circles with a black outline.
- Sites with no data 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 6 months, at date a site is available. The smoothed SARS-CoV-2 concentration line shows how SARS-CoV-2 concentrations in wastewater at a sampling site have changed over recent months.
- The spline fit line is calculated by first normalized SARS-CoV-2 concentration line. If a major change in laboratory methods has occurred at a site, only data from the most recent was reported. Lines connecting the points as these sites' in the current virus levels in wastewater metric should be viewed with caution as they may cause the spline fit line 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 (e.g. percent change in wastewater, current virus levels in wastewater, or percent of samples with SARS-CoV-2 RNA) over the last 7 days. For example, if 10% of 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 "Not enough data to calculate".*

County-level data

- Data are presented by sewershed (the geographic area contributing wastewater to a sampling location). Sampling locations may cover more than one county or only a portion of a county. Sewersheds may cross county or state boundaries. Sewersheds may also be nested within one another, for example, one sewershed 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 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 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 that are in DC or NYC. Sampling locations that are in other counties in New York State do not include New York City or even to counties in New York State. Some of the same counties have 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 the 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. Updates to 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 sampling locations are changing.
- Data from facility or institution-specific sampling locations.
- Data from sewersheds where the number of SARS-CoV-2 genetic copies are made anonymous using a constant, arbitrary number.
- Approximately 20% of US households are on septic systems; the exact percent varies by location. These systems do not connect to wastewater treatment plants and are not sampled. Therefore, SARS-CoV-2 wastewater data from these systems are not represented in the data.
- Data from wastewater treatment plants being monitored but not submitted by health departments to CDC. Certain communities collect wastewater samples but do not submit those samples 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 (NWSS) in accordance with their own set of priorities and reporting capacity.
- Data are reported through a CDC-managed contract for commercial testing, which is intended to supplement the participating STLT health departments' wastewater surveillance.

Laboratory methods

- SARS-CoV-2 concentrations in wastewater are measured using reverse transcriptase quantitative polymerase chain reaction (RT-qPCR) or reverse transcription digital polymerase chain reaction (RT-dPCR). Laboratory processing and quantification methods have been optimized for wastewater samples, which are complex, variable, and contain inhibitors. 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. Laboratory methods are subject to change as laboratories continue to optimize methods for wastewater. Laboratory methods are flexible to different SARS-CoV-2 strains and may be less sensitive to new strains of SARS-CoV-2 or to non-virus positive phenomenons. Learn more on the Wastewater Surveillance Laboratory Methods Development.

Data download

- The 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 the data (NWSS Public 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.

Wondering what all the data mean?

CDC's COVID Data Tracker Weekly Review helps you stay up to date on interpretation of key data and trends.

How does wastewater surveillance work?

Wastewater data can show changes in disease trends it is likely to detect before these 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?

Visit your county's COVID-19 Dashboard 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 decisions about public health actions such as increasing testing, masking, and vaccination and put this information together to understand the local COVID-19 situation and decide how to take response.

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 data to the National Wastewater Surveillance System (NWSS) to expand geographic coverage of 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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