Centers for Disease
Control and Prevention

COVID Data Tracker

Maps, charts, and data provided by CDC, updates daily 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 take action. Community Transmission levels are provided for healthcare facility use only.

United States At a Glance

Cases Total
80,526,422
Case Trends

Deaths Total
986,545
Death Trends

Current **Hosp.**
9,416
Admission Trends

82.2% of People 5+ with At Least One Vaccination

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 interprets and standardizes 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
- Data Downloads
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- About the Data

Maps, charts, and data provided by CDC, updated daily 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

State or territory:
Select State or Territory ▾

County:
Select a state in order to enable county select ▾

Reset Selections

Time Period: Apr 02, 2022 – Apr 16, 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.

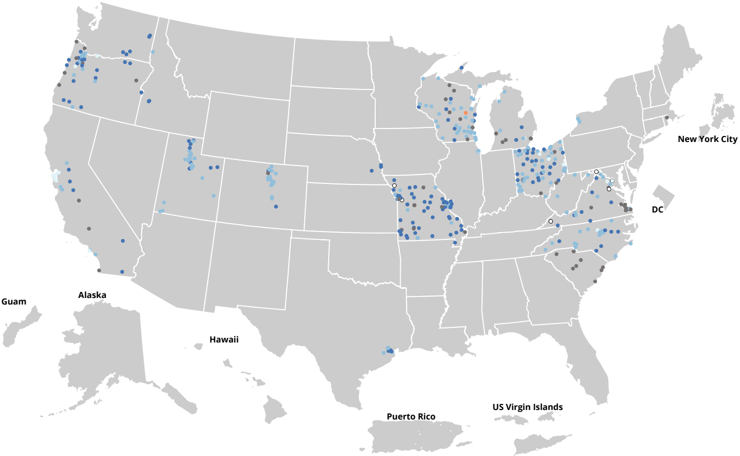
Current SARS-CoV-2 virus levels by site, United States

Current virus levels category		Num. sites	% sites	Category change in last 7 days
⬜	New Site	136	18	0%
🟦	1% to 19%	194	25	– 15%
🟦	20% to 39%	262	34	– 5%
⬜	40% to 59%	87	11	– 16%
🟧	60% to 79%	62	8	27%
🟥	80% to 100%	22	3	175%

Total sites with current data: 763

Total number of wastewater sampling sites: 841

[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%

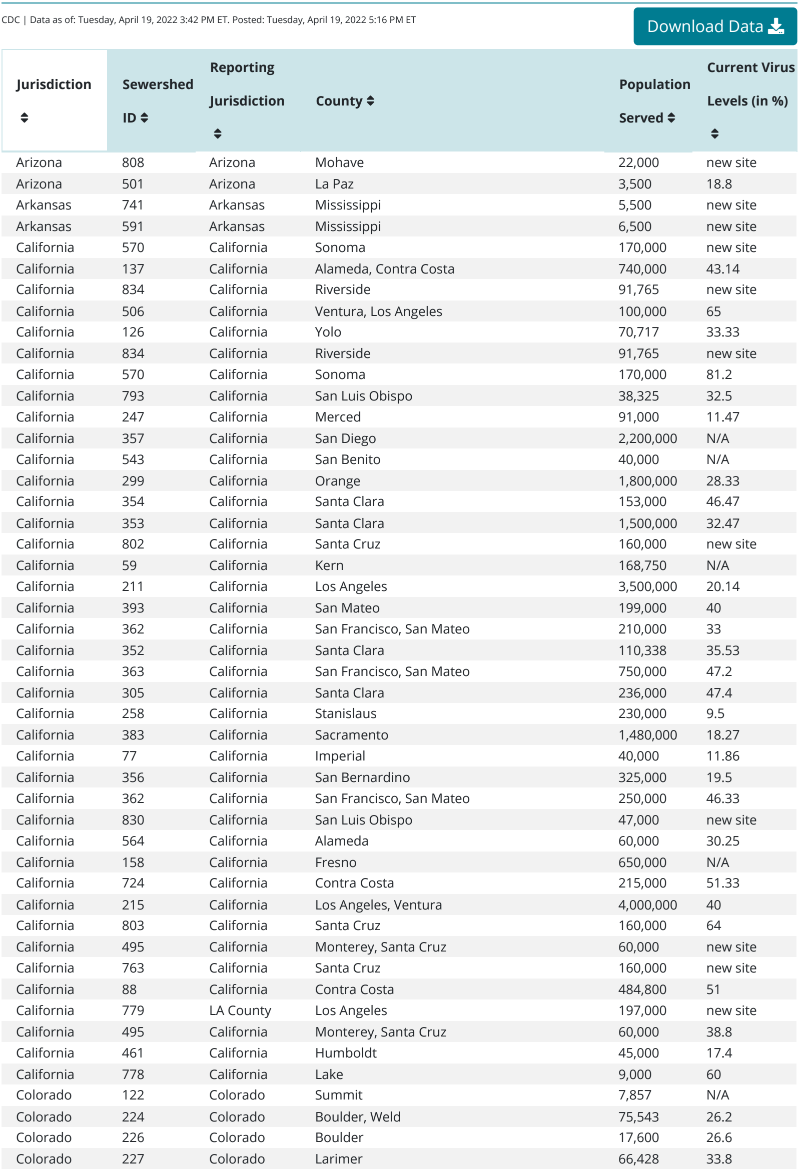
● No recent data

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: Tuesday, April 19, 2022 3:42 PM ET. Posted: Tuesday, April 19, 2022 5:16 PM ET

Download Data

Jurisdiction	Sewershed ID	Reporting Jurisdiction	County	Population Served	Current Virus Levels (in %)
Arizona	808	Arizona	Mohave	22,000	new site
Arizona	501	Arizona	La Paz	3,500	18.8
Arkansas	741	Arkansas	Mississippi	5,500	new site
Arkansas	591	Arkansas	Mississippi	6,500	new site
California	570	California	Sonoma	170,000	new site
California	137	California	Alameda, Contra Costa	740,000	43.14
California	834	California	Riverside	91,765	new site
California	506	California	Ventura, Los Angeles	100,000	65
California	126	California	Yolo	70,717	33.33
California	834	California	Riverside	91,765	new site
California	570	California	Sonoma	170,000	81.2
California	793	California	San Luis Obispo	38,325	32.5
California	247	California	Merced	91,000	11.47
California	357	California	San Diego	2,200,000	N/A
California	543	California	San Benito	40,000	N/A
California	299	California	Orange	1,800,000	28.33
California	354	California	Santa Clara	153,000	46.47
California	353	California	Santa Clara	1,500,000	32.47
California	802	California	Santa Cruz	160,000	new site
California	59	California	Kern	168,750	N/A
California	211	California	Los Angeles	3,500,000	20.14
California	393	California	San Mateo	199,000	40
California	362	California	San Francisco, San Mateo	210,000	33
California	352	California	Santa Clara	110,338	35.53
California	363	California	San Francisco, San Mateo	750,000	47.2
California	305	California	Santa Clara	236,000	47.4
California	258	California	Stanislaus	230,000	9.5
California	383	California	Sacramento	1,480,000	18.27
California	77	California	Imperial	40,000	11.86
California	356	California	San Bernardino	325,000	19.5
California	362	California	San Francisco, San Mateo	250,000	46.33
California	830	California	San Luis Obispo	47,000	new site
California	564	California	Alameda	60,000	30.25
California	158	California	Fresno	650,000	N/A
California	724	California	Contra Costa	215,000	51.33
California	215	California	Los Angeles, Ventura	4,000,000	40
California	803	California	Santa Cruz	160,000	64
California	495	California	Monterey, Santa Cruz	60,000	new site
California	763	California	Santa Cruz	160,000	new site
California	88	California	Contra Costa	484,800	51
California	779	LA County	Los Angeles	197,000	new site
California	495	California	Monterey, Santa Cruz	60,000	38.8
California	461	California	Humboldt	45,000	17.4
California	778	California	Lake	9,000	60
Colorado	122	Colorado	Summit	7,857	N/A
Colorado	224	Colorado	Boulder, Weld	75,543	26.2
Colorado	226	Colorado	Boulder	17,600	26.6
Colorado	227	Colorado	Larimer	66,428	33.8

Colorado	58	Colorado	Larimer, Weld	7,946	17.2
Colorado	370	Colorado	Larimer	23,193	29
Colorado	747	Colorado	Arapahoe	25,714	new site
Colorado	329	Colorado	Pueblo	96,514	10.4
Colorado	66	Colorado	Boulder	89,383	35.6
Colorado	117	Colorado	El Paso	303,855	21.2
Colorado	252	Colorado	Denver	709,904	19.5
Colorado	49	Colorado	Adams, Arapahoe	268,003	26.8
Colorado	251	Colorado	Denver	345,453	23.4
Colorado	372	Colorado	Denver, Arapahoe	247,443	30.4
Colorado	656	Colorado	La Plata	23,429	N/A
Colorado	437	Colorado	Larimer	9,292	32.6
Colorado	841	Colorado	Adams	21,429	new site
Colorado	161	Colorado	Garfield	16,714	N/A
Colorado	72	Colorado	Broomfield	53,355	29
Colorado	152	Colorado	Larimer	26,621	29
Colorado	151	Colorado	Larimer	92,126	19.75
Colorado	368	Colorado	Adams	54,560	28.6
Colorado	556	Colorado	Morgan	12,000	new site
Colorado	142	Colorado	Larimer	5,818	N/A
Colorado	845	Colorado	Summit	14,286	new site
Colorado	749	Colorado	Eagle	21,071	new site
Colorado	116	Colorado	El Paso	102,203	31.2
Colorado	408	Colorado	Summit	35,643	N/A
Colorado	737	Colorado	Alamosa	18,364	new site
Colorado	657	Colorado	Summit	28,571	N/A
Colorado	578	Colorado	Las Animas	14,286	N/A
Colorado	150	Colorado	Larimer	17,997	36.2
Colorado	846	Colorado	Gunnison	30,000	new site
Colorado	576	Colorado	Routt	43,741	N/A
Colorado	750	Colorado	Eagle	30,714	new site
Colorado	163	Colorado	Weld	83,319	20
Colorado	47	Colorado	Pitkin	5,500	N/A
Colorado	751	Colorado	Mesa	89,286	new site
Colorado	748	Colorado	El Paso	34,286	new site
Colorado	396	Colorado	San Miguel	15,000	N/A
Colorado	844	Colorado	Eagle	19,286	new site
Colorado	843	Colorado	Eagle	30,714	new site
Colorado	887	Colorado	Summit	18,571	new site
Colorado	928	Colorado	Weld	20,000	new site
Connecticut	806	Connecticut	Fairfield	70,000	new site
Connecticut	832	Connecticut	New London	40,000	new site
Connecticut	771	Connecticut	Fairfield	115,000	63.67
Connecticut	686	Connecticut	New Haven	110,000	37.4
Connecticut	795	Connecticut	Windham	10,000	new site
Connecticut	534	Connecticut	Fairfield	100,000	48.5
District of Columbia	486	District of Columbia	Montgomery, Loudoun, Prince Georges, Fairfax, District Of Columbia	2,000,000	76.25
Florida	781	Florida	Miami-Dade	776,150	72.5
Florida	490	Florida	Brevard	10,500	47.4
Florida	574	Florida	Pinellas	220,000	46.67
Florida	706	Florida	Escambia	197,000	56.25
Florida	829	Florida	Monroe	50,000	new site
Florida	711	Florida	Miami-Dade	829,725	88
Florida	668	Florida	Miami-Dade	920,528	70.2

Florida	671	Florida	Orange	463,672	37.5
Florida	511	Florida	Pinellas	82,000	42.5
Florida	669	Florida	Orange	277,823	78.25
Florida	670	Florida	Orange	58,587	67.25
Georgia	476	Georgia	Richmond	200,000	44.75
Georgia	684	Georgia	Dekalb	300,000	82
Hawaii	710	Hawaii	Kauai	10,000	63.67
Hawaii	798	Hawaii	Honolulu	50,500	64
Hawaii	790	Hawaii	Honolulu	360,000	71.2
Idaho	818	Idaho	Ada	120,344	16
Idaho	819	Idaho	Latah	24,000	32.57
Idaho	992	Idaho	Ada	167,500	15.29
Illinois	596	Illinois	Cook	160,735	new site
Illinois	635	Chicago	Cook	3,590	36.6
Illinois	638	Illinois	Cook	1,127,736	60.8
Illinois	649	Illinois	Bureau	7,555	32.8
Illinois	653	Illinois	Macoupin	4,480	36.8
Illinois	652	Illinois	Shelby	5,329	new site
Illinois	603	Illinois	Kane	11,290	72.25
Illinois	626	Illinois	Knox	39,153	13.8
Illinois	605	Illinois	Saint Clair	52,300	new site
Illinois	635	Chicago	Cook	70,645	29.2
Illinois	632	Illinois	Cook	270,647	79.4
Illinois	980	Illinois	Mclean	88,475	54
Illinois	641	Illinois	Cook	217,106	84.4
Illinois	643	Illinois	Lake	55,735	68
Illinois	871	Illinois	La Salle	18,307	50
Illinois	619	Illinois	Vermilion	30,479	29
Illinois	633	Illinois	Warren	10,836	31.6
Illinois	894	Illinois	Lee	15,115	46.6
Illinois	642	Illinois	Du Page	128,358	71.2
Illinois	618	Illinois	Mchenry	40,269	29.6
Illinois	546	Illinois	Kankakee	65,000	33.6
Illinois	639	Illinois	Cook	1,127,736	84.4
Illinois	675	Chicago	Cook	215,718	35.8
Illinois	613	Illinois	Marion	15,738	23.4
Illinois	634	Illinois	Jefferson	21,169	29.4
Illinois	697	Illinois	Rock Island	25,202	41
Illinois	647	Illinois	Peoria	157,379	46
Illinois	698	Illinois	Rock Island	43,768	46.8
Illinois	644	Illinois	Lake	105,208	56.8
Illinois	627	Illinois	Morgan	23,818	32.6
Illinois	978	Illinois	Mclean	88,475	55.6
Illinois	637	Illinois	Cook	13,098	56.4
Illinois	650	Illinois	Adams	50,695	46.2
Illinois	646	Illinois	Richland	8,968	8.5
Illinois	981	Illinois	De Kalb	43,862	82.5
Illinois	636	Illinois	Cook	110,394	72.2
Illinois	731	Illinois	Bureau	5,223	70.25
Illinois	616	Illinois	Christian	12,663	30.6
Illinois	622	Illinois	Effingham	12,384	53
Illinois	606	Illinois	Saint Clair	52,300	new site
Illinois	682	Illinois	Cook	264,000	63.8
Illinois	462	Illinois	Winnebago	353,599	36.2
Illinois	654	Illinois	Whiteside	18,678	21.25

Illinois	611	Illinois	Fulton	13,506	new site
Illinois	683	Illinois	Cook	160,735	66.75
Illinois	612	Illinois	Greene	3,064	40
Illinois	624	Illinois	Stephenson	27,218	44.4
Illinois	617	Illinois	Mchenry	40,269	58.4
Illinois	674	Chicago	Cook	52,306	34.25
Illinois	462	Illinois	Winnebago	250,000	35.4
Illinois	655	Illinois	Champaign	91,041	85
Illinois	602	Illinois	Union	4,442	37.6
Illinois	857	Illinois	Lawrence	4,399	new site
Illinois	675	Chicago	Cook	54,458	52.6
Illinois	604	Illinois	Cass	5,446	23.4
Illinois	651	Illinois	Carroll	5,615	54.75
Illinois	645	Illinois	Lake	126,629	37.4
Illinois	607	Illinois	Boone	41,500	23
Illinois	615	Illinois	Randolph	6,814	27.5
Illinois	972	Illinois	Saint Clair	32,289	new site
Illinois	674	Chicago	Cook	91,964	56.4
Illinois	983	Illinois	Mchenry	15,000	N/A
Illinois	984	Illinois	Du Page	18,800	new site
Illinois	699	Illinois	Tazewell	30,997	new site
Illinois	628	Illinois	Kankakee	56,317	42.6
Illinois	635	Illinois	Cook	1,134,897	69
Illinois	979	Illinois	Mclean	88,475	60
Illinois	620	Illinois	Macon	70,746	42.6
Illinois	982	Illinois	Cook	1,263,110	93
Illinois	625	Illinois	Jo Daviess	3,460	34.25
Illinois	675	Chicago	Cook	203,376	33
Illinois	623	Illinois	Clay	5,070	22
Illinois	595	Illinois	Cook	264,000	new site
Illinois	631	Illinois	Mcdonough	22,004	41.5
Illinois	621	Illinois	Perry	6,448	15.6
Indiana	772	Indiana	Monroe	50,000	75
Indiana	678	Indiana	Bartholomew	50,000	39
Indiana	765	Indiana	Monroe	30,000	60
Indiana	828	Indiana	Hamilton	86,000	new site
Iowa	105	Iowa	Johnson	20,000	15.2
Iowa	544	Iowa	Johnson	75,000	63
Kansas	833	Kansas	Shawnee	105,000	66.8
Kansas	787	Kansas	Shawnee	135,000	new site
Kansas	766	Kansas	Butler	13,000	new site
Kansas	807	Kansas	Ford	27,788	52.75
Kansas	766	Kansas	Butler	13,000	new site
Kansas	472	Kansas	Reno	40,000	13.25
Kentucky	903	Kentucky	Jefferson	32,460	new site
Kentucky	905	Kentucky	Jefferson	349,850	new site
Kentucky	901	Kentucky	Jefferson	55,928	new site
Kentucky	810	Kentucky	Estill	3,500	new site
Kentucky	902	Kentucky	Jefferson	295,910	new site
Kentucky	904	Kentucky	Jefferson	31,269	new site
Louisiana	727	Louisiana	Orleans	380,000	39.5
Louisiana	792	Louisiana	Orleans	380,000	40.2
Maine	484	Maine	Franklin	4,116	38.75
Maine	475	Maine	Piscataquis	800	35.75
Maine	65	Maine	Lincoln	1,700	19.2

Maine	507	Maine	Oxford	1,500	41
Maine	560	Maine	Sagadahoc	8,500	61
Maine	347	Maine	Knox	7,000	79.2
Maine	716	Maine	Cumberland	8,500	85.5
Maryland	563	Maryland	Wicomico	37,447	new site
Maryland	563	Maryland	Wicomico	37,447	new site
Maryland	561	Maryland	Washington	70,000	58
Maryland	547	Maryland	Howard	250,000	71
Maryland	666	Maryland	Allegany	45,000	34.75
Massachusetts	470	Massachusetts	Hampden	55,000	66.75
Michigan	799	Michigan	Washtenaw	150,000	53.13
Michigan	898	Michigan	Oakland, Wayne	840,600	N/A
Michigan	895	Michigan	Bay	34,000	new site
Michigan	822	Michigan	Delta	12,600	20.6
Michigan	801	Michigan	Grand Traverse	45,000	34.2
Michigan	891	Michigan	Kalamazoo	194,170	N/A
Michigan	890	Michigan	Ottawa	36,912	N/A
Michigan	800	Michigan	Genesee	95,000	17.67
Michigan	896	Michigan	Macomb, Wayne	492,000	N/A
Michigan	888	Michigan	Calhoun	70,000	N/A
Michigan	756	Michigan	Kent	265,000	30
Michigan	860	Michigan	Gratiot	8,976	66.8
Michigan	889	Michigan	Ottawa	45,608	N/A
Michigan	874	Michigan	Emmet	7,900	25.2
Michigan	762	Michigan	Washtenaw	330,000	29.57
Michigan	533	Michigan	Alpena	12,000	43.4
Michigan	861	Michigan	Saginaw	40,000	new site
Michigan	1018	Michigan	Bay	20,000	new site
Michigan	897	Michigan	Macomb, Oakland	1,482,000	N/A
Michigan	757	Michigan	Jackson	90,000	16.5
Michigan	761	Michigan	Lenawee	8,680	37.27
Michigan	823	Michigan	Houghton	14,000	16.67
Minnesota	494	Minnesota	Olmsted	115,000	62.8
Minnesota	783	Minnesota	Ramsey, Hennepin, Anoka, Dakota, Washington	1,950,000	new site
Minnesota	849	Minnesota	Carver, Scott, Hennepin	300,000	new site
Minnesota	494	Minnesota	Olmsted	115,000	new site
Minnesota	993	Minnesota	Dakota, Scott	150,000	new site
Missouri	242	Missouri	Nodaway	12,000	8.33
Missouri	293	Missouri	Jefferson, Saint Louis	27,391	14
Missouri	82	Missouri	Carroll	3,784	17.67
Missouri	385	Missouri	Buchanan	27,000	14
Missouri	69	Missouri	Taney	6,155	18
Missouri	380	Missouri	Greene	22,818	11
Missouri	159	Missouri	Callaway	12,790	19.67
Missouri	91	Missouri	Mississippi	4,000	N/A
Missouri	143	Missouri	Saint Francois	10,114	3.5
Missouri	218	Missouri	Clay	35,300	20
Missouri	190	Missouri	Callaway, Cole	41,153	8.33
Missouri	200	Missouri	Jackson, Johnson, Wyandotte	61,250	16.67
Missouri	139	Missouri	Miller	4,895	6.67
Missouri	195	Missouri	Jackson, Cass, Johnson	490,000	6
Missouri	827	Missouri	Dent	4,512	new site
Missouri	267	Missouri	Saint Louis	115,895	15.67
Missouri	130	Missouri	Stoddard	6,000	10.5

Missouri	78	Missouri	Dekalb, Clinton, Caldwell	9,700	25.67
Missouri	386	Missouri	Saint Charles	60,000	23.33
Missouri	199	Missouri	Clay, Platte	12,855	16
Missouri	83	Missouri	Jasper	12,000	N/A
Missouri	270	Missouri	Saint Louis, Saint Charles	174,537	25.33
Missouri	266	Missouri	Saint Louis, Jefferson	24,174	23.67
Missouri	295	Missouri	Jackson	7,985	new site
Missouri	381	Missouri	Christian, Greene	151,966	N/A
Missouri	404	Missouri	Lincoln	3,282	10
Missouri	259	Missouri	Lawrence, Barry	9,100	9.33
Missouri	360	Missouri	Pettis	10,730	N/A
Missouri	365	Missouri	Scott, New Madrid	17,000	6.33
Missouri	198	Missouri	Clay	12,000	18
Missouri	156	Missouri	Madison	4,000	26.67
Missouri	423	Missouri	Johnson	11,883	15
Missouri	265	Missouri	Saint Louis	149,112	15.67
Missouri	264	Missouri	Saint Louis City, Saint Louis	306,647	19.67
Missouri	63	Missouri	Polk	10,500	11
Missouri	132	Missouri	Saint Charles	58,776	21.67
Missouri	196	Missouri	Jackson	25,000	31.33
Missouri	269	Missouri	Saint Louis, Jefferson	66,738	13.67
Missouri	348	Missouri	Phelps	15,000	6.67
Missouri	280	Missouri	Vernon	8,082	18.67
Missouri	317	Missouri	Platte	8,000	22.5
Missouri	407	Missouri	Franklin	7,936	10
Missouri	192	Missouri	Jasper	34,403	5.33
Missouri	284	Missouri	Christian	20,000	13.67
Missouri	71	Missouri	Linn	3,979	5.67
Missouri	858	Missouri	Cass, Jackson	367,300	6
Missouri	81	Missouri	Scott, Cape Girardeau	33,540	16.67
Missouri	114	Missouri	Henry	9,118	22
Missouri	268	Missouri	Saint Louis	451,367	15.67
Missouri	145	Missouri	Jefferson	16,722	new site
Missouri	312	Missouri	Perry	9,000	12.67
Missouri	824	Missouri	Adair	17,496	new site
Missouri	87	Missouri	Barry	3,300	15.67
Missouri	119	Missouri	Boone	123,180	10
Missouri	424	Missouri	Johnson	14,477	5.67
Missouri	358	Missouri	Pettis	7,500	N/A
Missouri	294	Missouri	Saint Charles	16,000	11.33
Missouri	230	Missouri	Macon	5,471	N/A
Missouri	306	Missouri	Franklin, Saint Louis	7,001	8.33
Missouri	253	Missouri	Audrain	11,500	3
Missouri	213	Missouri	Barton	4,532	10.33
Missouri	359	Missouri	Pettis	8,250	N/A
Missouri	68	Missouri	Taney	10,559	29.33
Missouri	194	Missouri	Platte, Clay	76,759	10.67
Missouri	441	Missouri	Howell	12,000	13
Missouri	171	Missouri	Marion, Ralls	16,000	20.33
Missouri	429	Missouri	Franklin	15,000	N/A
Missouri	279	Missouri	Newton	12,000	6.5
Missouri	202	Missouri	Dunklin	11,300	12.33
Missouri	45	Missouri	Boone	3,000	new site
Missouri	238	Missouri	Saline	10,113	12.67
Missouri	197	Missouri	Platte, Clay	13,940	8

Missouri	95	Missouri	Livingston	9,000	6
Missouri	240	Missouri	Webster	8,000	12
Missouri	355	Missouri	Andrew	4,571	new site
Missouri	184	Missouri	Clay, Jackson	43,200	N/A
Missouri	191	Missouri	Newton	15,906	9
Missouri	64	Missouri	Saint Francois	7,165	19.67
Missouri	732	Missouri	Platte	7,000	new site
Missouri	321	Missouri	Butler	17,000	4
Missouri	438	Missouri	Saint Charles	44,852	11.33
Missouri	133	Missouri	Saint Charles	47,757	15.67
Missouri	336	Missouri	Jefferson	12,293	new site
Montana	562	Montana	Missoula	70,000	N/A
Nebraska	917	Nebraska	Dodge	28,000	24.6
Nebraska	922	Nebraska	Lancaster	100,000	19.8
Nebraska	923	Nebraska	Sarpy, Washington, Douglas	600,000	19.6
Nebraska	919	Nebraska	Adams	24,692	16.6
Nebraska	915	Nebraska	Dawes	5,561	15
Nebraska	921	Nebraska	Douglas	200,000	14.4
Nebraska	988	Nebraska	Lincoln	24,000	new site
Nebraska	926	Nebraska	Wayne	5,560	24.6
Nebraska	925	Nebraska	Lancaster	200,000	17.8
Nebraska	916	Nebraska	Platte	23,000	N/A
Nebraska	987	Nebraska	Stanton, Madison	27,000	new site
Nebraska	918	Nebraska	Hall	52,000	23.67
Nebraska	924	Nebraska	Scotts Bluff	15,932	10
Nebraska	920	Nebraska	Buffalo	33,790	23.67
Nevada	663	Nevada	Clark	250,000	new site
Nevada	700	Nevada	Clark	15,500	55.5
Nevada	777	Nevada	Clark	270,000	84.25
Nevada	703	Nevada	Clark	641,000	45.33
Nevada	148	Nevada	Clark	1,001,800	N/A

Nevada	148	Nevada	Clark	1,001,800	N/A
Nevada	554	Nevada	Washoe	300,000	35.6
Nevada	663	Nevada	Clark	250,000	48.67
New Hampshire	497	New Hampshire	Merrimack	40,000	63.8
New Hampshire	402	New Hampshire	Sullivan	6,000	29.2
New Hampshire	285	New Hampshire	Carroll	5,200	31.5
New Jersey	784	New Jersey	Somerset, Middlesex, Union	880,000	new site
New Mexico	764	New Mexico	Bernalillo	650,000	55.5
New Mexico	853	New Mexico	Los Alamos	12,000	new site
New York	530	New York	Madison	3,317	48
New York	483	New York	Delaware	3,581	45.33
New York	695	New York	Oswego	14,199	23.33
New York	524	New York	Orange	36,227	47.67
New York	728	New York	Suffolk	346,000	83.25
New York	52	New York	Steuben	5,941	21.33
New York	430	New York	Jefferson	26,013	new site
New York	837	New York	Rockland	53,437	new site
New York	516	New York	Madison	4,908	37
New York	123	New York	Steuben	10,605	6.33
New York	430	New York	Jefferson	15,294	new site
New York	528	New York	Otsego	19,383	new site
New York	723	New York	Seneca	6,961	new site
New York	740	New York	Oneida	55,215	new site
New York	515	New York	Madison	4,843	44.33
New York	776	New York	Ulster	24,000	66.6
New York	986	New York	Washington	12,260	new site
New York	580	New York	Monroe	43,074	15.6
New York	713	New York	Dutchess	35,000	67.2
New York	1013	New York	Erie	71,131	37.67
New York	721	New York	Rensselaer	79,699	63
New York	998	New York	Erie	431,141	55
New York	1012	New York	Erie	83,961	39
New York	522	New York	Orange	27,434	44
New York	526	New York	Orange	41,135	N/A
New York	720	New York	Lewis	3,953	new site
New York	836	New York	Nassau	611,349	new site
New York	529	New York	Orange	8,568	0
New York	740	New York	Oneida	33,358	new site
New York	477	New York	Essex	3,076	21
New York	690	New York	Cortland	26,950	37
New York	786	New York	Niagara	45,000	63
New York	1002	New York	Erie	24,461	51
New York	1000	New York	Erie	17,983	21
New York	519	New York	Orange	6,369	61
New York	521	New York	Onondaga	242,377	new site
New York	154	New York	Monroe	550,000	70
New York	598	New York	Monroe	103,000	90.75
New York	324	New York	Nassau	32,000	61.2
New York	471	New York	Cayuga	33,000	84.6
New York	691	New York	Herkimer	13,924	new site
New York	512	New York	Cayuga	31,814	21
New York	974	New York	Yates	5,339	new site
New York	718	New York	Putnam	3,656	new site

New York	685	New York	Suffolk	346,000	new site
New York	693	New York	Ulster	10,577	40
New York	426	New York	Orange	6,729	37.25
New York	692	New York	Saint Lawrence	10,794	56.67
New York	479	New York	Chenango	6,734	30.33
New York	739	New York	Orange	42,921	93
New York	694	New York	Franklin	7,175	new site
New York	482	New York	Schenectady	65,000	40.8
New York	722	New York	Saratoga	152,482	new site
New York	717	New York	Montgomery	19,679	new site
New York	999	New York	Chautauqua	12,616	new site
New York	567	New York	Fulton	23,379	51.67
New York	719	New York	Nassau	24,041	new site
New York	1013	New York	Erie	14,742	30.33
New York	791	New York	Franklin, Essex	5,000	65
New York	738	New York	Putnam	4,480	new site
New York	527	New York	Madison	9,207	new site
New York	689	New York	Tompkins	9,770	13.33
New York	1011	New York	Cattaraugus	17,760	new site
New York	572	New York	Rockland	53,437	new site
New York	1006	New York	Chautauqua	32,501	new site
New York	1010	New York	Monroe	155,096	new site
New York	742	New York	Albany	80,922	new site
New York	531	New York	Jefferson	4,077	21.33
New York	518	New York	Steuben	5,162	11.67
New York	1003	New York	Monroe	487,322	new site
New York	1009	New York	Niagara	48,196	new site
New York	838	New York	Rockland	207,430	new site
New York	517	New York	Livingston	4,730	16.67
New York	869	New York	Warren	23,462	new site
New York City	503	New York City	Queens	120,539	68.4
New York City	552	New York City	Richmond	226,166	74.6
New York City	498	New York City	Bronx	755,948	84.2
New York City	505	New York City	Queens	449,906	62
New York City	545	New York City	Queens	748,737	77.8
New York City	487	New York City	Queens	924,694	72.6
New York City	485	New York City	Kings	290,607	83
New York City	541	New York City	Kings	682,341	82
New York City	550	New York City	Richmond	258,731	81
New York City	553	New York City	Kings	224,028	88
New York City	549	New York City	New York, Queens, Kings	1,156,473	87.4
New York City	500	New York City	New York	658,595	74.6
New York City	551	New York City	Kings	906,441	84
New York City	509	New York City	New York, Bronx	1,201,485	82
North Carolina	334	North Carolina	Wake	30,655	24.75
North Carolina	492	North Carolina	Henderson	14,000	41
North Carolina	237	North Carolina	Mcdowell	8,459	13.6
North Carolina	85	North Carolina	Wake	74,331	32.8
North Carolina	345	North Carolina	Halifax, Northampton	14,320	28.8
North Carolina	332	North Carolina	Wake	550,000	29.4
North Carolina	538	North Carolina	Pasquotank	19,000	40.25
North Carolina	53	North Carolina	Carteret	3,500	25.2
North Carolina	271	North Carolina	Henderson, Buncombe	173,000	25.6
North Carolina	569	North Carolina	Craven, Lenoir, Greene	22,180	42.6
North Carolina	421	North Carolina	Duplin	10,000	N/A

North Carolina	537	North Carolina	Stanly	20,000	26
North Carolina	216	North Carolina	Scotland	15,527	12
North Carolina	92	North Carolina	Mecklenburg	68,685	31.6
North Carolina	111	North Carolina	Wilson	49,384	16.4
North Carolina	303	North Carolina	Orange, Durham	78,141	40.6
North Carolina	450	North Carolina	New Hanover	58,361	31.6
North Carolina	452	North Carolina	Forsyth	178,000	23.4
North Carolina	536	North Carolina	Swain, Jackson	5,000	21
North Carolina	705	North Carolina	Rowan	22,940	40
North Carolina	539	North Carolina	Vance	17,000	25.2
North Carolina	86	North Carolina	Wake	75,886	34
North Carolina	93	North Carolina	Mecklenburg	182,501	30.8
North Carolina	571	North Carolina	Wayne	4,520	30
North Carolina	405	North Carolina	Jackson	13,296	21
North Carolina	335	North Carolina	Wake	7,776	17.4
North Carolina	94	North Carolina	Mecklenburg	120,000	32.2
North Carolina	451	North Carolina	New Hanover	67,743	39.4
North Carolina	144	North Carolina	Cumberland	151,589	14.2
North Carolina	704	North Carolina	Rowan	31,536	61.4
North Carolina	421	North Carolina	Duplin	10,000	new site
North Carolina	167	North Carolina	Pitt	89,616	14.2
North Carolina	369	North Carolina	Durham, Orange	108,105	54
North Carolina	84	North Carolina	Wake	84,189	21.4
North Carolina	166	North Carolina	Guilford	135,821	28.6
North Carolina	597	North Carolina	Sampson	9,000	53
North Carolina	569	North Carolina	Craven, Greene, Lenoir	22,180	new site
North Carolina	568	North Carolina	Watauga	38,000	38.6
Ohio	186	Ohio	Lawrence	10,445	24.4
Ohio	241	Ohio	Union	24,677	13.8
Ohio	374	Ohio	Franklin	654,817	19.4
Ohio	326	Ohio	Scioto	20,366	N/A
Ohio	54	Ohio	Greene	46,160	22
Ohio	456	Ohio	Muskingum	47,500	10.25
Ohio	233	Ohio	Richland	52,000	20
Ohio	301	Ohio	Lucas	44,680	29
Ohio	442	Ohio	Montgomery	113,629	32
Ohio	214	Ohio	Fairfield	24,303	20.6
Ohio	131	Ohio	Tuscarawas	13,572	13.8
Ohio	204	Ohio	Portage	29,000	23.4
Ohio	141	Ohio	Belmont	13,169	36
Ohio	311	Ohio	Wood	21,000	15
Ohio	277	Ohio	Cuyahoga	524,154	24.4
Ohio	382	Ohio	Clark	88,710	23.75
Ohio	155	Ohio	Portage	10,000	N/A
Ohio	403	Ohio	Montgomery	65,000	25.8
Ohio	187	Ohio	Franklin	645,940	25.8
Ohio	276	Ohio	Cuyahoga	313,158	36.4
Ohio	67	Ohio	Wood	32,000	19.67
Ohio	304	Ohio	Butler	22,000	23.2
Ohio	121	Ohio	Ashtabula	12,000	43.2
Ohio	411	Ohio	Wyandot	6,700	6
Ohio	235	Ohio	Washington	15,284	19.8
Ohio	315	Ohio	Miami	20,581	35.8
Ohio	124	Ohio	Coshocton	12,000	14.4
Ohio	127	Ohio	Montgomery	226,729	N/A

Ohio	782	Ohio	Brown	4,773	new site
Ohio	263	Ohio	Knox	18,000	14.8
Ohio	157	Ohio	Sandusky	25,000	12
Ohio	455	Ohio	Mahoning	65,469	19.4
Ohio	48	Ohio	Athens	24,536	23.8
Ohio	255	Ohio	Hamilton	566,136	23.8
Ohio	102	Ohio	Marion	36,000	25.4
Ohio	170	Ohio	Butler	65,000	35.8
Ohio	398	Ohio	Lucas	372,208	22.2
Ohio	868	Ohio	Wayne	6,500	new site
Ohio	73	Ohio	Williams	8,655	20.6
Ohio	74	Ohio	Crawford	12,362	14.4
Ohio	309	Ohio	Licking	3,300	14.4
Ohio	388	Ohio	Jefferson	17,864	41.6
Ohio	422	Ohio	Trumbull	68,874	24.4
Ohio	278	Ohio	Cuyahoga	103,379	21.2
Ohio	147	Ohio	Hancock	42,000	19.2
Ohio	98	Ohio	Pickaway	13,965	16.75
Ohio	282	Ohio	Licking	45,000	25.6
Ohio	36	Ohio	Summit	377,378	20
Ohio	108	Ohio	Erie	55,000	34
Ohio	222	Ohio	Medina	35,000	26.2
Ohio	291	Ohio	Huron	17,000	43.5
Ohio	79	Ohio	Stark	85,000	26.6
Ohio	219	Ohio	Allen	61,000	18.6
Ohio	43	Ohio	Fulton	6,000	13.25
Ohio	273	Ohio	Hamilton	125,247	38
Ohio	101	Ohio	Preble	8,400	9.33
Ohio	975	Ohio	Greene	4,100	new site
Ohio	228	Ohio	Lucas	195,577	22.8
Ohio	221	Ohio	Hamilton	200,666	30
Ohio	46	Ohio	Ashtabula	31,430	26
Ohio	859	Ohio	Mercer	4,800	37
Ohio	129	Ohio	Defiance	23,027	33
Ohio	274	Ohio	Henry	12,246	38.6
Ohio	140	Ohio	Lorain	54,500	35.6
Ohio	112	Ohio	Wayne	27,000	45.25
Ohio	225	Ohio	Lorain	72,000	19.2
Ohio	322	Ohio	Ottawa	7,000	10.25
Ohio	134	Ohio	Montgomery	78,509	34
Ohio	395	Ohio	Hamilton	83,058	33.8
Ohio	428	Ohio	Fayette	14,000	18
Ohio	168	Ohio	Darke	13,000	16.2
Ohio	773	Ohio	Brown	4,773	new site
Oklahoma	809	Oklahoma	Murray	5,000	new site
Oklahoma	831	Oklahoma	Beckham	11,210	new site
Oklahoma	767	Oklahoma	Garfield	50,249	66.75
Oklahoma	769	Oklahoma	Comanche	93,000	new site
Oregon	774	Oregon	Clackamas	4,000	new site
Oregon	942	Oregon	Washington	220,000	25.8
Oregon	947	Oregon	Lane	10,200	18
Oregon	965	Oregon	Marion	10,520	N/A
Oregon	930	Oregon	Clatsop	11,326	N/A
Oregon	945	Oregon	Multnomah	662,235	27.6
Oregon	959	Oregon	Umatilla	17,500	10.4

Oregon	936	Oregon	Lane	8,925	N/A
Oregon	938	Oregon	Yamhill	24,120	24.6
Oregon	943	Oregon	Washington	40,000	12
Oregon	469	Oregon	Jackson	21,105	20
Oregon	935	Oregon	Polk	16,555	0
Oregon	797	Oregon	Clackamas	76,600	67.4
Oregon	961	Oregon	Marion	229,000	33
Oregon	929	Oregon	Linn	57,785	22.8
Oregon	971	Oregon	Lane	235,155	20.4
Oregon	953	Oregon	Klamath	20,840	11.6
Oregon	937	Oregon	Lincoln	8,865	19.4
Oregon	952	Oregon	Hood River	7,800	41.2
Oregon	940	Oregon	Deschutes	32,255	13.2
Oregon	950	Oregon	Josephine	37,725	9.4
Oregon	939	Oregon	Lincoln	10,400	18.2
Oregon	958	Oregon	Malheur	12,000	12.6
Oregon	951	Oregon	Umatilla	18,775	10.4
Oregon	934	Oregon	Benton	58,856	50.67
Oregon	955	Oregon	Yamhill	34,615	14.4
Oregon	932	Oregon	Deschutes	92,850	32.4
Oregon	956	Oregon	Jackson	133,708	6.33
Oregon	966	Oregon	Columbia	13,739	N/A
Oregon	949	Oregon	Washington	40,000	14.4
Oregon	933	Oregon	Clackamas	14,206	14
Oregon	963	Oregon	Yamhill	6,100	N/A
Oregon	967	Oregon	Marion	10,840	10
Oregon	970	Oregon	Jefferson	3,200	8.33
Oregon	931	Oregon	Baker	9,860	N/A
Oregon	944	Oregon	Washington	9,900	25.2
Oregon	957	Oregon	Coos	9,975	N/A
Oregon	941	Oregon	Marion	26,273	15.67
Oregon	775	Oregon	Clackamas	103,800	71.2
Pennsylvania	125	Pennsylvania	Butler	40,000	new site
Pennsylvania	125	Pennsylvania	Butler	40,000	38.4
Pennsylvania	726	Pennsylvania	Montgomery	13,000	76
Pennsylvania	707	Pennsylvania	Montgomery	15,500	82.6
Rhode Island	835	Rhode Island	Bristol	11,000	new site
Rhode Island	412	Rhode Island	Providence	20,000	19
Rhode Island	548	Rhode Island	Providence	120,000	61.75
Rhode Island	565	Rhode Island	Kent	6,000	72
Rhode Island	146	Rhode Island	Providence	226,000	N/A
Rhode Island	464	Rhode Island	Providence	226,000	new site
Rhode Island	76	Rhode Island	Providence	10,000	78.2
Rhode Island	677	Rhode Island	Bristol	21,000	66.67
Rhode Island	464	Rhode Island	Providence	226,000	57.75
Rhode Island	474	Rhode Island	Providence, Kent	80,000	66.2
South Carolina	885	South Carolina	Georgetown	30,000	N/A
South Carolina	883	South Carolina	York	88,000	N/A
South Carolina	877	South Carolina	Kershaw	8,825	N/A
South Carolina	599	South Carolina	Greenwood	12,000	25
South Carolina	908	South Carolina	Richland	60,000	N/A
South Carolina	909	South Carolina	Horry	195,000	N/A
South Carolina	878	South Carolina	Charleston	64,170	N/A
South Carolina	884	South Carolina	Greenville	400,000	N/A
South Carolina	906	South Carolina	Lexington	40,000	N/A

South Carolina	600	South Carolina	Greenwood	48,000	42
South Carolina	491	South Carolina	Darlington	8,100	40.5
South Dakota	672	South Dakota	Pennington	84,000	N/A
South Dakota	493	South Dakota	Beadle	13,282	20
Tennessee	496	Tennessee	Bradley	51,922	19
Texas	183	Houston	Harris	16,804	14
Texas	350	Houston	Harris	20,608	13
Texas	35	Houston	Harris	551,150	53
Texas	165	Houston	Fort Bend, Harris	28,742	33.33
Texas	373	Houston	Harris	32,485	44.33
Texas	673	Texas	El Paso	435,464	23.4
Texas	780	Texas	Hardin	29,500	60.2
Texas	288	Houston	Harris	33,102	18.67
Texas	287	Houston	Harris	12,892	29.67
Texas	593	Texas	Galveston	80,000	36.25
Texas	449	Houston	Harris	8,610	47
Texas	56	Houston	Harris	70,900	33.33
Texas	135	Houston	Harris	16,030	15
Texas	367	Houston	Harris	109,414	5.67
Texas	406	Houston	Harris	59,188	26
Texas	439	Houston	Harris	85,129	29.67
Texas	665	Texas	Dallas	179,800	43.67
Texas	201	Houston	Harris	124,000	13
Texas	443	Houston	Harris	3,623	63.5
Texas	250	Houston	Harris	20,161	21.67
Texas	811	Texas	Bexar	533,956	new site
Texas	434	Houston	Fort Bend, Harris	20,920	22.33
Texas	149	Houston	Harris	4,170	29.5
Texas	160	Houston	Harris	40,689	22.33
Texas	847	Texas	Bexar	133,454	new site
Texas	865	Texas	Webb	120,000	new site
Texas	566	Texas	El Paso	142,648	35.8
Texas	435	Houston	Harris	33,645	9.33
Texas	867	Texas	Webb	140,000	new site
Texas	446	Houston	Harris	20,758	28.67
Texas	375	Houston	Harris	293,227	63
Texas	97	Houston	Harris	37,359	18.33
Texas	307	Houston	Harris	5,497	24
Texas	272	Houston	Harris	4,010	29.33
Texas	667	Texas	Galveston	40,000	50
Texas	290	Houston	Harris	95,600	40.67
Texas	40	Houston	Harris	117,968	11.33
Texas	207	Houston	Harris, Montgomery	52,055	27.67
Texas	176	Houston	Harris	9,375	8.33
Texas	481	Texas	Dallas	200,000	20.2
Texas	113	Houston	Harris	3,825	21.67
Texas	289	Houston	Harris	19,867	22
Texas	709	Texas	El Paso	169,744	new site
Texas	366	Houston	Harris	109,414	8
Texas	409	Houston	Harris	97,918	23.67
Texas	863	Texas	Webb	30,000	new site
Texas	681	Texas	El Paso	142,388	36.8
Texas	848	Texas	Bexar	691,672	new site
Utah	15	Utah	San Juan, Grand	9,896	33.6
Utah	16	Utah	Weber, Davis	228,700	24.6

Utah	33	Utah	Utah	253,112	19.8
Utah	9	Utah	Weber, Davis	208,850	18.4
Utah	12	Utah	Cache	94,005	18.8
Utah	21	Utah	Duchesne	6,790	0
Utah	11	Utah	Utah, Salt Lake	94,484	24
Utah	3	Utah	Box Elder	21,443	18
Utah	31	Utah	Utah	35,840	25.8
Utah	24	Utah	Davis	84,981	15.6
Utah	5	Utah	Iron	32,451	25.2
Utah	20	Utah	Utah	21,231	20
Utah	32	Utah	Tooele	36,244	27
Utah	17	Utah	Utah	112,901	20
Utah	25	Utah	Davis	21,872	24.8
Utah	28	Utah	Salt Lake	209,645	28.2
Utah	1	Utah	Washington	24,970	23.4
Utah	30	Utah	Salt Lake	254,971	27.4
Utah	29	Utah	Utah	12,510	14.25
Utah	23	Utah	Summit	8,530	20.2
Utah	26	Utah	Utah	53,313	21.2
Utah	22	Utah	Summit	23,304	22.4
Utah	11	Utah	Salt Lake	89,507	25.6
Utah	19	Utah	Carbon	17,312	20
Utah	10	Utah	Cache	9,095	24.6
Utah	18	Utah	Utah	102,624	21.6
Utah	7	Utah	Salt Lake	515,494	26.2
Utah	27	Utah	Washington	92,047	25.4
Utah	6	Utah	Davis	64,533	21.4
Utah	34	Utah	Box Elder	12,451	18.8
Utah	2	Utah	Uintah	29,513	13.6
Vermont	770	Vermont	Franklin	7,500	83.33
Vermont	701	Vermont	Chittenden	8,500	new site
Vermont	796	Vermont	Windsor	9,000	58.5
Virginia	467	Virginia	Hanover	10,000	39
Virginia	589	Virginia	Newport News City, Gloucester, Hampton City, York, Poquoson City, Mathews	99,112	N/A
Virginia	586	Virginia	Suffolk City, Chesapeake City, Isle Of Wight, Portsmouth City	197,608	N/A
Virginia	177	Virginia	Virginia Beach City, Chesapeake City	343,016	31.33
Virginia	588	Virginia	New Kent, York, Newport News City, James City, Williamsburg City	69,059	N/A
Virginia	342	Virginia	Henrico, Richmond City, Goochland	225,000	new site
Virginia	583	Virginia	Norfolk City, Virginia Beach City, Chesapeake City	530,848	new site
Virginia	585	Virginia	Newport News City, Hampton City, York, James City	141,543	N/A
Virginia	892	Virginia	Colonial Heights City, Hopewell City, Chesterfield, Petersburg City, Prince George, Dinwiddie	71,416	new site
Virginia	262	Virginia	Albemarle	118,266	33.33
Virginia	38	Virginia	Fairfax, Alexandria City	300,000	new site
Virginia	308	Virginia	Frederick	16,563	15
Virginia	229	Virginia	Amherst, Bedford City, Campbell	220,000	N/A
Virginia	310	Virginia	Pulaski, Radford, Montgomery	70,000	18.67
Virginia	873	Virginia	Norfolk City, Virginia Beach City, Chesapeake City	187,832	N/A

Virginia	178	Virginia	Isle Of Wight, Portsmouth City, Chesapeake City, Suffolk City	197,608	35
Virginia	42	Virginia	Stafford, Prince William	92,000	new site
Virginia	181	Virginia	New Kent, Williamsburg City, James City, York, Newport News City	69,059	27.67
Virginia	582	Virginia	Norfolk City, Hampton City	78,322	N/A
Virginia	587	Virginia	Virginia Beach City, Norfolk City, Portsmouth City, Chesapeake City	192,347	N/A
Virginia	100	Virginia	Pittsylvania	47,000	15
Virginia	180	Virginia	Portsmouth City, Norfolk City, Virginia Beach City, Chesapeake City	192,347	35.67
Virginia	286	Virginia	Rockingham, Harrisonburg City	81,000	18.67
Virginia	872	Virginia	Norfolk City, Chesapeake City, Virginia Beach City	343,016	N/A
Virginia	342	Virginia	Henrico, Goochland, Richmond City	225,000	7.67
Virginia	540	Virginia	Henry, Martinsville City	16,500	33
Virginia	346	Virginia	Roanoke, Botetourt, Salem, Roanoke City	300,000	15.67
Virginia	169	Virginia	Stafford, Prince William, Fairfax	165,901	26
Virginia	714	Virginia	Orange	4,721	N/A
Virginia	38	Virginia	Fairfax, Alexandria City	300,000	53.67
Virginia	220	Virginia	Stafford	44,000	16.5
Virginia	118	Virginia	Wise	14,000	16.67
Virginia	410	Virginia	Fairfax, Fauquier, Loudoun, Fairfax City, Manassas Park City, Prince William, Manassas City	350,000	44.33
Virginia	454	Virginia	Washington	7,300	8
Virginia	584	Virginia	Hampton City, Newport News City	118,497	N/A
Virginia	469	Virginia	Hanover	12,000	26.25
Virginia	51	Virginia	Loudoun	10,178	33.33
Virginia	61	Virginia	Montgomery	52,500	21.67
Virginia	42	Virginia	Stafford, Prince William	92,000	N/A
Virginia	220	Virginia	Stafford	44,000	new site
Virginia	400	Virginia	Montgomery	23,000	21.67
Virginia	118	Virginia	Wise	14,000	new site
Washington	510	Washington	Clark	120,000	36
Washington	760	Washington	Spokane	120,000	18.17
Washington	759	Washington	Spokane	225,000	7.4
Washington	804	Washington	Clark	16,950	new site
Washington	676	Washington	King, Snohomish	288,000	69
Washington	502	Washington	Clark	6,875	38
Washington	99	Washington	Clark	25,457	new site
Washington	343	Washington	Clark	6,875	new site
Washington	499	Washington	Clark	120,000	37
Washington	754	Washington	Benton	59,609	6.4
Washington	661	Washington	Snohomish	38,000	44
Washington	768	Washington	Snohomish	110,000	N/A
Washington	679	Washington	Snohomish	7,300	54
Washington	758	Washington	Benton	83,000	9.71
Washington	504	Washington	Clark	120,000	39
Washington	753	Washington	Franklin	73,000	7
Washington	351	Washington	Clark	120,000	new site
Washington	664	Washington	Snohomish	10,500	57
Washington	725	Washington	Clark	25,457	44
Washington	555	Washington	Snohomish	20,000	44
Washington	708	Washington	Snohomish	3,700	48
Washington	755	Washington	Benton	15,000	33.25

West Virginia	601	West Virginia	Wetzel, Wood, Wirt, Wayne, Webster, Wyoming, Cabell	56,000	16.22
West Virginia	206	West Virginia	Mineral	8,168	38.27
West Virginia	387	West Virginia	Monongalia	48,328	28.91
West Virginia	592	West Virginia	Harrison	80,000	new site
West Virginia	460	West Virginia	Jefferson	17,000	27.88
West Virginia	468	West Virginia	Morgan	3,255	new site
West Virginia	735	West Virginia	Taylor	6,071	27.18
West Virginia	912	West Virginia	Brooke	6,468	new site
West Virginia	463	West Virginia	Marshall	12,000	22.64
West Virginia	712	West Virginia	Raleigh	25,000	30.33
West Virginia	687	West Virginia	Harrison	26,498	25.9
West Virginia	459	West Virginia	Kanawha	50,000	38.82
West Virginia	789	West Virginia	Raleigh	88,900	16.5
West Virginia	680	West Virginia	Harrison	80,000	N/A
West Virginia	445	West Virginia	Ohio	50,000	25.91
West Virginia	465	West Virginia	Wood	48,050	N/A
West Virginia	466	West Virginia	Mercer	36,000	26.5
Wisconsin	257	Wisconsin	Ozaukee, Washington, Racine, Milwaukee, Waukesha	615,934	50.8
Wisconsin	231	Wisconsin	Dane	345,000	21.36
Wisconsin	128	Wisconsin	Brown	43,000	22
Wisconsin	243	Wisconsin	Juneau	4,400	15
Wisconsin	447	Wisconsin	Jefferson, Walworth	14,500	26.5
Wisconsin	433	Wisconsin	Marathon	42,350	27.25
Wisconsin	389	Wisconsin	Portage	27,000	23.8
Wisconsin	136	Wisconsin	Chippewa, Eau Claire	73,000	29.25
Wisconsin	339	Wisconsin	Oneida	7,800	N/A
Wisconsin	209	Wisconsin	La Crosse	85,000	21.2
Wisconsin	246	Wisconsin	Dunn	5,000	27.67
Wisconsin	203	Wisconsin	Kenosha	122,000	27
Wisconsin	223	Wisconsin	Columbia	3,100	11.67
Wisconsin	344	Wisconsin	Pierce, Saint Croix	15,900	13
Wisconsin	340	Wisconsin	Taylor	7,600	N/A
Wisconsin	239	Wisconsin	Marathon, Wood	19,300	19
Wisconsin	431	Wisconsin	Waukesha	72,000	24
Wisconsin	164	Wisconsin	Kewaunee, Brown	189,000	29.25
Wisconsin	172	Wisconsin	Dodge, Washington	17,320	23.67
Wisconsin	453	Wisconsin	Wood	21,000	N/A
Wisconsin	473	Wisconsin	Marathon, Wood	19,684	29.2
Wisconsin	153	Wisconsin	Waukesha	51,000	20.25
Wisconsin	391	Wisconsin	Dane	33,000	23
Wisconsin	256	Wisconsin	Ozaukee, Milwaukee	470,007	21.25
Wisconsin	115	Wisconsin	Waupaca	14,000	28.8
Wisconsin	57	Wisconsin	Waushara, Green Lake	5,500	N/A
Wisconsin	210	Wisconsin	Vilas	3,400	N/A
Wisconsin	297	Wisconsin	Jefferson, Waukesha	22,300	20.75
Wisconsin	420	Wisconsin	Vernon	4,400	30.75
Wisconsin	212	Wisconsin	Walworth	8,430	N/A
Wisconsin	41	Wisconsin	Calumet, Winnebago, Outagamie	72,810	65.2
Wisconsin	392	Wisconsin	Douglas	28,000	31.6
Wisconsin	318	Wisconsin	Grant	11,000	23
Wisconsin	325	Wisconsin	Columbia	11,000	34.5
Wisconsin	260	Wisconsin	Green	11,000	13
Wisconsin	248	Wisconsin	Lincoln	9,700	11.33
Wisconsin	44	Wisconsin	Ashland	8,200	21.33

Wisconsin	313	Wisconsin	Marinette	3,500	29.67
Wisconsin	696	Wisconsin	Dodge, Jefferson	23,660	31.4
Wisconsin	232	Wisconsin	Manitowoc	34,500	9
Wisconsin	331	Wisconsin	Racine	139,000	30.6
Wisconsin	60	Wisconsin	Jackson	5,000	25
Wisconsin	90	Wisconsin	Ozaukee	12,400	N/A
Wisconsin	182	Wisconsin	Saint Croix	14,000	22.8
Wisconsin	364	Wisconsin	Sheboygan	75,000	13.8
Wisconsin	320	Wisconsin	Sheboygan	9,150	29.67
Wisconsin	302	Wisconsin	Winnebago	78,300	35.6
Wisconsin	236	Wisconsin	Marinette	11,000	22.2
Wisconsin	120	Wisconsin	Columbia	6,900	24

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 be updated daily as soon as they are reviewed and verified, often before 8 pm ET. However, daily updates might be

delayed due to delays in reporting data.

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.

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 US 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. 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.

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 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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