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
80,938,963
Case Trends

Deaths Total
989,408
Death Trends

Current **Hosp.**
11,263
Admission Trends

82.4% of People 5+ with At Least One Vaccination

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Wastewater Surveillance

Wastewater Surveillance

COVID-19: Wastewater Surveillance

Communities can track the presence of SARS-CoV-2, the virus that causes COVID-19, in wastewater samples. These data can provide an early warning of COVID-19'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

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Terms to Know

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 10, 2022 – Apr 24, 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.

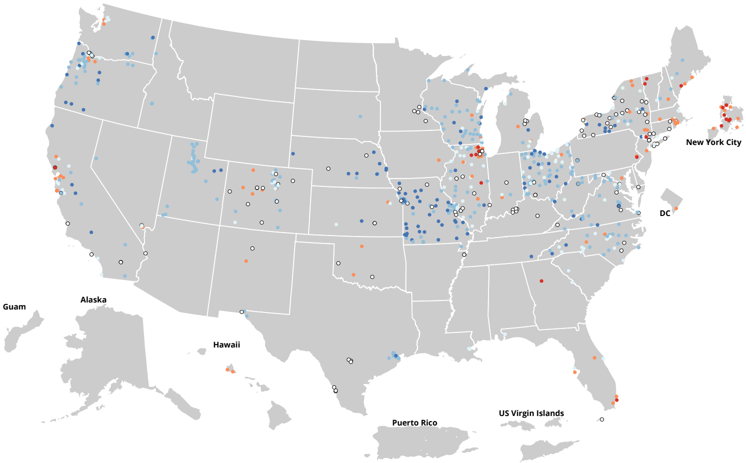
Current SARS-CoV-2 virus levels by site, United States

Current virus levels category	Num. sites	% sites	Category change in last 7 days
⬜ New Site	121	16	0%
🟦 1% to 19%	110	14	– 29%
🟦 20% to 39%	268	35	– 6%
⬜ 40% to 59%	144	19	19%
🟧 60% to 79%	87	11	6%
🟥 80% to 100%	30	4	15%

Total sites with current data: 760

Total number of wastewater sampling sites: 851

[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%

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: Wednesday, April 27, 2022 2:57 PM ET. Posted: Wednesday, April 27, 2022 4:53 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	N/A
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	66.8
California	834	California	Riverside	91,765	new site
California	506	California	Ventura, Los Angeles	100,000	65
California	126	California	Yolo	70,717	46.87
California	834	California	Riverside	91,765	new site
California	570	California	Sonoma	170,000	81.2
California	793	California	San Luis Obispo	38,325	N/A
California	247	California	Merced	91,000	11.6

California	357	California	San Diego	2,200,000	58
California	543	California	San Benito	40,000	N/A
California	299	California	Orange	1,800,000	49.8
California	354	California	Santa Clara	153,000	50.73
California	802	California	Santa Cruz	160,000	72.25
California	59	California	Kern	168,750	18.43
California	211	California	Los Angeles	3,500,000	25.57
California	353	California	Santa Clara	1,500,000	41.53
California	393	California	San Mateo	199,000	47.2
California	352	California	Santa Clara	110,338	42.33
California	362	California	San Francisco, San Mateo	210,000	55.57
California	363	California	San Francisco, San Mateo	750,000	56.13
California	305	California	Santa Clara	236,000	53.87
California	383	California	Sacramento	1,480,000	26.87
California	258	California	Stanislaus	230,000	11.1
California	77	California	Imperial	40,000	27.43
California	1019	California	Lake	13,200	41.5
California	362	California	San Mateo, San Francisco	250,000	60.62
California	356	California	San Bernardino	325,000	30.14
California	564	California	Alameda	60,000	30.25
California	830	California	San Luis Obispo	47,000	new site
California	158	California	Fresno	650,000	28.14
California	724	California	Contra Costa	215,000	69.25
California	215	California	Ventura, Los Angeles	4,000,000	54.43
California	803	California	Santa Cruz	160,000	80
California	495	California	Monterey, Santa Cruz	60,000	new site
California	763	California	Santa Cruz	160,000	75
California	495	California	Santa Cruz, Monterey	60,000	38.8
California	88	California	Contra Costa	484,800	64.14
California	779	LA County	Los Angeles	197,000	new site
California	461	California	Humboldt	45,000	17.4
California	778	California	Lake	9,000	60
Colorado	122	Colorado	Summit	7,857	50
Colorado	224	Colorado	Boulder, Weld	75,543	39.4
Colorado	226	Colorado	Boulder	17,600	58.8
Colorado	227	Colorado	Larimer	66,428	40
Colorado	58	Colorado	Weld, Larimer	7,946	32
Colorado	370	Colorado	Larimer	23,193	35.6
Colorado	747	Colorado	Arapahoe	25,714	72.5
Colorado	329	Colorado	Pueblo	96,514	21.6
Colorado	66	Colorado	Boulder	89,383	39.4
Colorado	117	Colorado	El Paso	303,855	37.6
Colorado	252	Colorado	Denver	709,904	34.75
Colorado	49	Colorado	Arapahoe, Adams	268,003	39.4
Colorado	251	Colorado	Denver	345,453	35
Colorado	372	Colorado	Denver, Arapahoe	247,443	48.6
Colorado	656	Colorado	La Plata	23,429	56.67
Colorado	437	Colorado	Larimer	9,292	33.2
Colorado	841	Colorado	Adams	21,429	new site
Colorado	72	Colorado	Broomfield	53,355	49.4
Colorado	161	Colorado	Garfield	16,714	60.67
Colorado	152	Colorado	Larimer	26,621	47.33
Colorado	151	Colorado	Larimer	92,126	45.5
Colorado	368	Colorado	Adams	54,560	42.25
Colorado	556	Colorado	Morgan	12,000	new site
Colorado	845	Colorado	Summit	14,286	51
Colorado	142	Colorado	Larimer	5,818	N/A
Colorado	737	Colorado	Alamosa	18,364	new site
Colorado	749	Colorado	Eagle	21,071	62.2
Colorado	116	Colorado	El Paso	102,203	39.8

Colorado	408	Colorado	Summit	35,643	N/A
Colorado	657	Colorado	Summit	28,571	61.6
Colorado	578	Colorado	Las Animas	14,286	27
Colorado	150	Colorado	Larimer	17,997	52
Colorado	846	Colorado	Gunnison	30,000	new site
Colorado	576	Colorado	Routt	43,741	62.5
Colorado	163	Colorado	Weld	83,319	27.4
Colorado	751	Colorado	Mesa	89,286	new site
Colorado	47	Colorado	Pitkin	5,500	72.5
Colorado	748	Colorado	El Paso	34,286	new site
Colorado	396	Colorado	San Miguel	15,000	26.2
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	N/A
Connecticut	686	Connecticut	New Haven	110,000	N/A
Connecticut	795	Connecticut	Windham	10,000	new site
Connecticut	534	Connecticut	Fairfield	100,000	48.5
District of Columbia	486	District of Columbia	Fairfax, Prince Georges, District Of Columbia, Montgomery, Loudoun	2,000,000	76.25
Florida	781	Florida	Miami-Dade	776,150	71
Florida	490	Florida	Brevard	10,500	47.4
Florida	574	Florida	Pinellas	220,000	68.5
Florida	706	Florida	Escambia	197,000	55.4
Florida	829	Florida	Monroe	50,000	new site
Florida	711	Florida	Miami-Dade	829,725	85.5
Florida	668	Florida	Miami-Dade	920,528	70.8
Florida	671	Florida	Orange	463,672	N/A
Florida	511	Florida	Pinellas	82,000	42.5
Florida	669	Florida	Orange	277,823	N/A
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	N/A
Hawaii	798	Hawaii	Honolulu	50,500	65.4
Hawaii	790	Hawaii	Honolulu	360,000	78
Idaho	818	Idaho	Ada	120,344	28.14
Idaho	819	Idaho	Latah	24,000	37.71
Idaho	992	Idaho	Ada	167,500	22.71
Illinois	596	Illinois	Cook	160,735	new site
Illinois	635	Chicago	Cook	3,590	36
Illinois	638	Illinois	Cook	1,127,736	62.67
Illinois	649	Illinois	Bureau	7,555	43.2
Illinois	653	Illinois	Macoupin	4,480	47
Illinois	635	Chicago	Cook	70,645	25
Illinois	652	Illinois	Shelby	5,329	new site
Illinois	603	Illinois	Kane	11,290	85
Illinois	605	Illinois	Saint Clair	52,300	new site
Illinois	626	Illinois	Knox	39,153	14.2
Illinois	632	Illinois	Cook	270,647	79.2
Illinois	641	Illinois	Cook	217,106	90.2
Illinois	643	Illinois	Lake	55,735	63.8
Illinois	980	Illinois	Mclean	88,475	58.2
Illinois	871	Illinois	La Salle	18,307	48
Illinois	619	Illinois	Vermilion	30,479	32
Illinois	633	Illinois	Warren	10,836	31.6
Illinois	894	Illinois	Lee	15,115	46.6

Illinois	618	Illinois	Mchenry	40,269	43.6
Illinois	642	Illinois	Du Page	128,358	72.2
Illinois	546	Illinois	Kankakee	65,000	33.6
Illinois	639	Illinois	Cook	1,127,736	80
Illinois	647	Illinois	Peoria	157,379	55.8
Illinois	613	Illinois	Marion	15,738	N/A
Illinois	634	Illinois	Jefferson	21,169	36.8
Illinois	697	Illinois	Rock Island	25,202	53
Illinois	698	Illinois	Rock Island	43,768	50.8
Illinois	627	Illinois	Morgan	23,818	34.4
Illinois	644	Illinois	Lake	105,208	67
Illinois	675	Chicago	Cook	215,718	41
Illinois	978	Illinois	Mclean	88,475	55.6
Illinois	637	Illinois	Cook	13,098	74
Illinois	650	Illinois	Adams	50,695	48
Illinois	646	Illinois	Richland	8,968	18.5
Illinois	981	Illinois	De Kalb	43,862	82.8
Illinois	616	Illinois	Christian	12,663	31
Illinois	622	Illinois	Effingham	12,384	61.8
Illinois	636	Illinois	Cook	110,394	79.4
Illinois	731	Illinois	Bureau	5,223	70.5
Illinois	606	Illinois	Saint Clair	52,300	new site
Illinois	682	Illinois	Cook	264,000	68.2
Illinois	462	Illinois	Winnebago	353,599	44.2
Illinois	654	Illinois	Whiteside	18,678	47.67
Illinois	611	Illinois	Fulton	13,506	new site
Illinois	683	Illinois	Cook	160,735	83
Illinois	612	Illinois	Greene	3,064	30.33
Illinois	624	Illinois	Stephenson	27,218	40
Illinois	617	Illinois	Mchenry	40,269	66.2
Illinois	462	Illinois	Winnebago	250,000	35.4
Illinois	655	Illinois	Champaign	91,041	82.8
Illinois	602	Illinois	Union	4,442	40.8
Illinois	857	Illinois	Lawrence	4,399	new site
Illinois	675	Chicago	Cook	54,458	57.8
Illinois	604	Illinois	Cass	5,446	28
Illinois	674	Chicago	Cook	52,306	40.6
Illinois	615	Illinois	Randolph	6,814	40.25
Illinois	972	Illinois	Saint Clair	32,289	new site
Illinois	645	Illinois	Lake	126,629	48
Illinois	607	Illinois	Boone	41,500	30.8
Illinois	651	Illinois	Carroll	5,615	54.75
Illinois	674	Chicago	Cook	91,964	60.6
Illinois	983	Illinois	Mchenry	15,000	90
Illinois	984	Illinois	Du Page	18,800	new site
Illinois	699	Illinois	Tazewell	30,997	new site
Illinois	628	Illinois	Kankakee	56,317	52
Illinois	635	Illinois	Cook	1,134,897	71.67
Illinois	979	Illinois	Mclean	88,475	69.2
Illinois	620	Illinois	Macon	70,746	48
Illinois	982	Illinois	Cook	1,263,110	89.2
Illinois	625	Illinois	Jo Daviess	3,460	21.67
Illinois	675	Chicago	Cook	203,376	34.8
Illinois	623	Illinois	Clay	5,070	24.4
Illinois	595	Illinois	Cook	264,000	new site
Illinois	631	Illinois	Mcdonough	22,004	40
Illinois	621	Illinois	Perry	6,448	21
Indiana	772	Indiana	Monroe	50,000	75
Indiana	678	Indiana	Bartholomew	50,000	39
Indiana	765	Indiana	Monroe	30,000	54.5

Indiana	828	Indiana	Hamilton	86,000	new site
Iowa	105	Iowa	Johnson	20,000	N/A
Iowa	544	Iowa	Johnson	75,000	63
Kansas	833	Kansas	Shawnee	105,000	74
Kansas	787	Kansas	Shawnee	135,000	49
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	49.2
Louisiana	792	Louisiana	Orleans	380,000	51.4
Maine	484	Maine	Franklin	4,116	38.75
Maine	475	Maine	Piscataquis	800	35.75
Maine	65	Maine	Lincoln	1,700	N/A
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	83.5
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
Massachusetts	1038	Massachusetts	Suffolk, Middlesex, Norfolk	1,075,656	50
Massachusetts	1037	Massachusetts	Middlesex, Suffolk	1,375,228	50
Michigan	799	Michigan	Washtenaw	150,000	66.58
Michigan	1039	Michigan	Saint Joseph	7,623	N/A
Michigan	898	Michigan	Oakland, Wayne	840,600	N/A
Michigan	895	Michigan	Bay	34,000	new site
Michigan	1036	Michigan	Allegan	5,500	N/A
Michigan	801	Michigan	Grand Traverse	45,000	45.2
Michigan	822	Michigan	Delta	12,600	18.4
Michigan	891	Michigan	Kalamazoo	194,170	N/A
Michigan	890	Michigan	Ottawa	36,912	N/A
Michigan	800	Michigan	Genesee	95,000	19.36
Michigan	896	Michigan	Macomb, Wayne	492,000	N/A
Michigan	756	Michigan	Kent	265,000	N/A
Michigan	860	Michigan	Gratiot	8,976	66.8
Michigan	889	Michigan	Ottawa	45,608	N/A
Michigan	888	Michigan	Calhoun	70,000	N/A
Michigan	874	Michigan	Emmet	7,900	33
Michigan	762	Michigan	Washtenaw	330,000	44.7
Michigan	533	Michigan	Alpena	12,000	N/A
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	1040	Michigan	Ottawa	11,200	N/A
Michigan	757	Michigan	Jackson	90,000	25.67
Michigan	761	Michigan	Lenawee	8,680	49.09
Michigan	823	Michigan	Houghton	14,000	21.75
Minnesota	494	Minnesota	Olmsted	115,000	62.8
Minnesota	783	Minnesota	Anoka, Washington, Ramsey, Hennepin, Dakota	1,950,000	new site
Minnesota	849	Minnesota	Carver, Hennepin, Scott	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	12.67
Missouri	293	Missouri	Saint Louis, Jefferson	27,391	37
Missouri	82	Missouri	Carroll	3,784	10
Missouri	385	Missouri	Buchanan	27,000	16
Missouri	69	Missouri	Taney	6,155	14
Missouri	380	Missouri	Greene	22,818	12.33
Missouri	159	Missouri	Callaway	12,790	8.67
Missouri	91	Missouri	Mississippi	4,000	N/A
Missouri	143	Missouri	Saint Francois	10,114	12
Missouri	218	Missouri	Clay	35,300	23
Missouri	200	Missouri	Wyandotte, Jackson, Johnson	61,250	19.67
Missouri	190	Missouri	Callaway, Cole	41,153	24.33
Missouri	139	Missouri	Miller	4,895	14
Missouri	195	Missouri	Cass, Jackson, Johnson	490,000	28
Missouri	827	Missouri	Dent	4,512	11
Missouri	267	Missouri	Saint Louis	115,895	36.67
Missouri	130	Missouri	Stoddard	6,000	N/A
Missouri	78	Missouri	Clinton, Dekalb, Caldwell	9,700	19
Missouri	381	Missouri	Greene, Christian	151,966	N/A
Missouri	386	Missouri	Saint Charles	60,000	35
Missouri	199	Missouri	Platte, Clay	12,855	24.67
Missouri	83	Missouri	Jasper	12,000	10
Missouri	266	Missouri	Saint Louis, Jefferson	24,174	35
Missouri	295	Missouri	Jackson	7,985	new site
Missouri	270	Missouri	Saint Charles, Saint Louis	174,537	37
Missouri	404	Missouri	Lincoln	3,282	16
Missouri	259	Missouri	Lawrence, Barry	9,100	10.67
Missouri	360	Missouri	Pettis	10,730	N/A
Missouri	365	Missouri	Scott, New Madrid	17,000	10
Missouri	198	Missouri	Clay	12,000	30
Missouri	156	Missouri	Madison	4,000	25.33
Missouri	423	Missouri	Johnson	11,883	12.33
Missouri	265	Missouri	Saint Louis	149,112	28.33
Missouri	264	Missouri	Saint Louis City, Saint Louis	306,647	42
Missouri	63	Missouri	Polk	10,500	12.67
Missouri	132	Missouri	Saint Charles	58,776	39.67
Missouri	196	Missouri	Jackson	25,000	35.33
Missouri	348	Missouri	Phelps	15,000	18
Missouri	280	Missouri	Vernon	8,082	16
Missouri	317	Missouri	Platte	8,000	35.67
Missouri	407	Missouri	Franklin	7,936	26.33
Missouri	269	Missouri	Saint Louis, Jefferson	66,738	19.33
Missouri	192	Missouri	Jasper	34,403	15.67
Missouri	284	Missouri	Christian	20,000	26.67
Missouri	71	Missouri	Linn	3,979	9
Missouri	858	Missouri	Cass, Jackson	367,300	24.67
Missouri	114	Missouri	Henry	9,118	28
Missouri	81	Missouri	Scott, Cape Girardeau	33,540	20.33
Missouri	268	Missouri	Saint Louis	451,367	40.33
Missouri	312	Missouri	Perry	9,000	7.67
Missouri	145	Missouri	Jefferson	16,722	new site
Missouri	824	Missouri	Adair	17,496	new site
Missouri	424	Missouri	Johnson	14,477	10.67
Missouri	87	Missouri	Barry	3,300	33.33
Missouri	119	Missouri	Boone	123,180	23
Missouri	294	Missouri	Saint Charles	16,000	14.67
Missouri	358	Missouri	Pettis	7,500	N/A
Missouri	230	Missouri	Macon	5,471	N/A

Missouri	306	Missouri	Franklin, Saint Louis	7,001	33.5
Missouri	253	Missouri	Audrain	11,500	5.67
Missouri	68	Missouri	Taney	10,559	22.67
Missouri	194	Missouri	Clay, Platte	76,759	13.67
Missouri	359	Missouri	Pettis	8,250	N/A
Missouri	171	Missouri	Ralls, Marion	16,000	23
Missouri	213	Missouri	Barton	4,532	11
Missouri	441	Missouri	Howell	12,000	19.33
Missouri	429	Missouri	Franklin	15,000	16.67
Missouri	279	Missouri	Newton	12,000	21.67
Missouri	202	Missouri	Dunklin	11,300	20.67
Missouri	45	Missouri	Boone	3,000	new site
Missouri	238	Missouri	Saline	10,113	14
Missouri	197	Missouri	Platte, Clay	13,940	15.67
Missouri	95	Missouri	Livingston	9,000	7.67
Missouri	240	Missouri	Webster	8,000	15.67
Missouri	321	Missouri	Butler	17,000	7.5
Missouri	355	Missouri	Andrew	4,571	new site
Missouri	184	Missouri	Jackson, Clay	43,200	N/A
Missouri	191	Missouri	Newton	15,906	12
Missouri	64	Missouri	Saint Francois	7,165	15.67
Missouri	732	Missouri	Platte	7,000	new site
Missouri	438	Missouri	Saint Charles	44,852	29.33
Missouri	133	Missouri	Saint Charles	47,757	25.67
Missouri	336	Missouri	Jefferson	12,293	new site
Montana	562	Montana	Missoula	70,000	N/A
Nebraska	917	Nebraska	Dodge	28,000	10.8
Nebraska	922	Nebraska	Lancaster	100,000	36
Nebraska	923	Nebraska	Sarpy, Washington, Douglas	600,000	19.6
Nebraska	919	Nebraska	Adams	24,692	25.25
Nebraska	915	Nebraska	Dawes	5,561	N/A
Nebraska	921	Nebraska	Douglas	200,000	17.8
Nebraska	988	Nebraska	Lincoln	24,000	new site
Nebraska	925	Nebraska	Lancaster	200,000	18.2
Nebraska	926	Nebraska	Wayne	5,560	17.4
Nebraska	916	Nebraska	Platte	23,000	N/A
Nebraska	987	Nebraska	Madison, Stanton	27,000	new site
Nebraska	918	Nebraska	Hall	52,000	13.4
Nebraska	924	Nebraska	Scotts Bluff	15,932	12.6
Nebraska	920	Nebraska	Buffalo	33,790	18.2
Nevada	663	Nevada	Clark	250,000	new site
Nevada	700	Nevada	Clark	15,500	50
Nevada	777	Nevada	Clark	270,000	77.25
Nevada	703	Nevada	Clark	641,000	56.25
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, Union, Middlesex	880,000	74.33
New Mexico	764	New Mexico	Bernalillo	650,000	60
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	55.67
New York	695	New York	Oswego	14,199	42.67
New York	524	New York	Orange	36,227	41.8
New York	728	New York	Suffolk	346,000	83.25
New York	52	New York	Steuben	5,941	19.5
New York	528	New York	Otsego	19,383	33.33
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	16
New York	430	New York	Jefferson	15,294	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	1022	New York	Schenectady	78,444	new site
New York	776	New York	Ulster	24,000	N/A
New York	986	New York	Washington	12,260	new site
New York	713	New York	Dutchess	35,000	67.2
New York	1013	New York	Erie	71,131	60
New York	721	New York	Rensselaer	79,699	73.33
New York	580	New York	Monroe	43,074	23.8
New York	1012	New York	Erie	83,961	25.33
New York	998	New York	Erie	431,141	64
New York	522	New York	Orange	27,434	53.8
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	1021	New York	Nassau	20,616	new site
New York	1002	New York	Erie	24,461	61.67
New York	477	New York	Essex	3,076	41.5
New York	786	New York	Niagara	45,000	67.5
New York	690	New York	Cortland	26,950	40
New York	740	New York	Oneida	33,358	new site
New York	519	New York	Orange	6,369	60
New York	154	New York	Monroe	550,000	70
New York	1000	New York	Erie	17,983	12
New York	324	New York	Nassau	32,000	61.2
New York	521	New York	Onondaga	242,377	new site
New York	598	New York	Monroe	103,000	90.75
New York	471	New York	Cayuga	33,000	84.6
New York	691	New York	Herkimer	13,924	63
New York	512	New York	Cayuga	31,814	23.67
New York	974	New York	Yates	5,339	new site
New York	718	New York	Putnam	3,656	new site
New York	693	New York	Ulster	10,577	63.67
New York	685	New York	Suffolk	346,000	new site
New York	426	New York	Orange	6,729	50.4

New York	692	New York	Saint Lawrence	10,794	57.67
New York	479	New York	Chenango	6,734	39
New York	739	New York	Orange	42,921	87.6
New York	694	New York	Franklin	7,175	63
New York	1044	New York	Suffolk	24,147	new site
New York	482	New York	Schenectady	65,000	40.8
New York	717	New York	Montgomery	19,679	new site
New York	722	New York	Saratoga	152,482	0
New York	999	New York	Chautauqua	12,616	new site
New York	719	New York	Nassau	24,041	44.33
New York	567	New York	Fulton	23,379	50
New York	1013	New York	Erie	14,742	46
New York	791	New York	Franklin, Essex	5,000	65.4
New York	527	New York	Madison	9,207	new site
New York	689	New York	Tompkins	9,770	15
New York	738	New York	Putnam	4,480	new site
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	29
New York	518	New York	Steuben	5,162	10
New York	1043	New York	Suffolk	3,349	new site
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	4.5
New York	1042	New York	Columbia	6,374	new site
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	545	New York City	Queens	748,737	77.8
New York City	505	New York City	Queens	449,906	62
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	550	New York City	Richmond	258,731	81
New York City	541	New York City	Kings	682,341	82
New York City	553	New York City	Kings	224,028	88
New York City	549	New York City	Queens, Kings, New York	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	28.6
North Carolina	492	North Carolina	Henderson	14,000	41
North Carolina	237	North Carolina	Mcdowell	8,459	16
North Carolina	85	North Carolina	Wake	74,331	50.2
North Carolina	345	North Carolina	Halifax, Northampton	14,320	30.4
North Carolina	332	North Carolina	Wake	550,000	40
North Carolina	53	North Carolina	Carteret	3,500	23.2
North Carolina	538	North Carolina	Pasquotank	19,000	N/A
North Carolina	271	North Carolina	Henderson, Buncombe	173,000	40
North Carolina	569	North Carolina	Lenoir, Greene, Craven	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	24.6
North Carolina	92	North Carolina	Mecklenburg	68,685	51.5
North Carolina	111	North Carolina	Wilson	49,384	28.4
North Carolina	536	North Carolina	Swain, Jackson	5,000	21

North Carolina	303	North Carolina	Orange, Durham	78,141	52.2
North Carolina	450	North Carolina	New Hanover	58,361	32.4
North Carolina	452	North Carolina	Forsyth	178,000	36.5
North Carolina	539	North Carolina	Vance	17,000	N/A
North Carolina	86	North Carolina	Wake	75,886	46.4
North Carolina	705	North Carolina	Rowan	22,940	54.6
North Carolina	405	North Carolina	Jackson	13,296	14.25
North Carolina	93	North Carolina	Mecklenburg	182,501	51.25
North Carolina	571	North Carolina	Wayne	4,520	30
North Carolina	94	North Carolina	Mecklenburg	120,000	53
North Carolina	335	North Carolina	Wake	7,776	32.4
North Carolina	451	North Carolina	New Hanover	67,743	44
North Carolina	144	North Carolina	Cumberland	151,589	22.8
North Carolina	704	North Carolina	Rowan	31,536	64
North Carolina	421	North Carolina	Duplin	10,000	new site
North Carolina	369	North Carolina	Orange, Durham	108,105	67.2
North Carolina	84	North Carolina	Wake	84,189	25
North Carolina	167	North Carolina	Pitt	89,616	25.8
North Carolina	166	North Carolina	Guilford	135,821	45.75
North Carolina	597	North Carolina	Sampson	9,000	54.6
North Carolina	569	North Carolina	Lenoir, Craven, Greene	22,180	new site
North Carolina	568	North Carolina	Watauga	38,000	N/A
Ohio	186	Ohio	Lawrence	10,445	34
Ohio	241	Ohio	Union	24,677	29
Ohio	374	Ohio	Franklin	654,817	31.4
Ohio	326	Ohio	Scioto	20,366	N/A
Ohio	54	Ohio	Greene	46,160	30
Ohio	456	Ohio	Muskingum	47,500	12
Ohio	233	Ohio	Richland	52,000	17.4
Ohio	301	Ohio	Lucas	44,680	23.8
Ohio	442	Ohio	Montgomery	113,629	38.2
Ohio	214	Ohio	Fairfield	24,303	9.8
Ohio	131	Ohio	Tuscarawas	13,572	22
Ohio	204	Ohio	Portage	29,000	64.33
Ohio	67	Ohio	Wood	32,000	31.75
Ohio	141	Ohio	Belmont	13,169	38
Ohio	311	Ohio	Wood	21,000	20
Ohio	187	Ohio	Franklin	645,940	40.6
Ohio	276	Ohio	Cuyahoga	313,158	53.4
Ohio	277	Ohio	Cuyahoga	524,154	40.4
Ohio	382	Ohio	Clark	88,710	33.8
Ohio	155	Ohio	Portage	10,000	N/A
Ohio	403	Ohio	Montgomery	65,000	20.6
Ohio	304	Ohio	Butler	22,000	16.4
Ohio	121	Ohio	Ashtabula	12,000	28.4
Ohio	235	Ohio	Washington	15,284	15.8
Ohio	315	Ohio	Miami	20,581	57.6
Ohio	411	Ohio	Wyandot	6,700	19.2
Ohio	124	Ohio	Coshocton	12,000	23.2
Ohio	127	Ohio	Montgomery	226,729	N/A
Ohio	455	Ohio	Mahoning	65,469	36
Ohio	48	Ohio	Athens	24,536	29.6
Ohio	255	Ohio	Hamilton	566,136	32.4
Ohio	782	Ohio	Brown	4,773	new site
Ohio	263	Ohio	Knox	18,000	25.8
Ohio	102	Ohio	Marion	36,000	40
Ohio	170	Ohio	Butler	65,000	40
Ohio	868	Ohio	Wayne	6,500	71.2
Ohio	157	Ohio	Sandusky	25,000	21
Ohio	73	Ohio	Williams	8,655	33

Ohio	74	Ohio	Crawford	12,362	35
Ohio	398	Ohio	Lucas	372,208	18.8
Ohio	309	Ohio	Licking	3,300	33.2
Ohio	422	Ohio	Trumbull	68,874	21.2
Ohio	388	Ohio	Jefferson	17,864	57
Ohio	147	Ohio	Hancock	42,000	36.6
Ohio	98	Ohio	Pickaway	13,965	22.4
Ohio	278	Ohio	Cuyahoga	103,379	43.8
Ohio	282	Ohio	Licking	45,000	26.2
Ohio	273	Ohio	Hamilton	125,247	44.4
Ohio	36	Ohio	Summit	377,378	43.4
Ohio	291	Ohio	Huron	17,000	42.8
Ohio	108	Ohio	Erie	55,000	18
Ohio	222	Ohio	Medina	35,000	51.4
Ohio	79	Ohio	Stark	85,000	44.6
Ohio	219	Ohio	Allen	61,000	18.6
Ohio	43	Ohio	Fulton	6,000	22.8
Ohio	101	Ohio	Preble	8,400	19.33
Ohio	975	Ohio	Greene	4,100	new site
Ohio	228	Ohio	Lucas	195,577	13.4
Ohio	221	Ohio	Hamilton	200,666	39.2
Ohio	46	Ohio	Ashtabula	31,430	41.5
Ohio	859	Ohio	Mercer	4,800	53
Ohio	129	Ohio	Defiance	23,027	25.2
Ohio	140	Ohio	Lorain	54,500	45.8
Ohio	274	Ohio	Henry	12,246	52.8
Ohio	112	Ohio	Wayne	27,000	48.2
Ohio	322	Ohio	Ottawa	7,000	17.6
Ohio	225	Ohio	Lorain	72,000	51
Ohio	134	Ohio	Montgomery	78,509	44.2
Ohio	395	Ohio	Hamilton	83,058	24.4
Ohio	428	Ohio	Fayette	14,000	35
Ohio	168	Ohio	Darke	13,000	30.4
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
Oklahoma	769	Oklahoma	Comanche	93,000	63
Oregon	774	Oregon	Clackamas	4,000	72.5
Oregon	942	Oregon	Washington	220,000	41.8
Oregon	947	Oregon	Lane	10,200	21
Oregon	965	Oregon	Marion	10,520	36.4
Oregon	930	Oregon	Clatsop	11,326	17.67
Oregon	945	Oregon	Multnomah	662,235	43.2
Oregon	959	Oregon	Umatilla	17,500	20
Oregon	936	Oregon	Lane	8,925	13.5
Oregon	938	Oregon	Yamhill	24,120	33.17
Oregon	943	Oregon	Washington	40,000	20
Oregon	469	Oregon	Jackson	21,105	N/A
Oregon	935	Oregon	Polk	16,555	15.6
Oregon	797	Oregon	Clackamas	76,600	79
Oregon	961	Oregon	Marion	229,000	42.33
Oregon	929	Oregon	Linn	57,785	32
Oregon	971	Oregon	Lane	235,155	20.4
Oregon	937	Oregon	Lincoln	8,865	28.2
Oregon	953	Oregon	Klamath	20,840	16.2
Oregon	952	Oregon	Hood River	7,800	50
Oregon	940	Oregon	Deschutes	32,255	18.8
Oregon	950	Oregon	Josephine	37,725	17
Oregon	939	Oregon	Lincoln	10,400	29.6

Oregon	958	Oregon	Malheur	12,000	N/A
Oregon	934	Oregon	Benton	58,856	52.33
Oregon	951	Oregon	Umatilla	18,775	23
Oregon	955	Oregon	Yamhill	34,615	29.2
Oregon	932	Oregon	Deschutes	92,850	38.8
Oregon	956	Oregon	Jackson	133,708	6
Oregon	966	Oregon	Columbia	13,739	N/A
Oregon	949	Oregon	Washington	40,000	19.4
Oregon	933	Oregon	Clackamas	14,206	29.67
Oregon	963	Oregon	Yamhill	6,100	38.5
Oregon	967	Oregon	Marion	10,840	20.33
Oregon	970	Oregon	Jefferson	3,200	9.67
Oregon	931	Oregon	Baker	9,860	N/A
Oregon	944	Oregon	Washington	9,900	30.8
Oregon	957	Oregon	Coos	9,975	20.5
Oregon	941	Oregon	Marion	26,273	25
Oregon	775	Oregon	Clackamas	103,800	72
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	66.8
Rhode Island	412	Rhode Island	Providence	20,000	N/A
Rhode Island	548	Rhode Island	Providence	120,000	60
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	464	Rhode Island	Providence	226,000	57.75
Rhode Island	677	Rhode Island	Bristol	21,000	66.67
Rhode Island	474	Rhode Island	Kent, Providence	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	884	South Carolina	Greenville	400,000	N/A
South Carolina	878	South Carolina	Charleston	64,170	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	N/A
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	18.67
Texas	350	Houston	Harris	20,608	14
Texas	35	Houston	Harris	551,150	55.67
Texas	165	Houston	Harris, Fort Bend	28,742	37
Texas	373	Houston	Harris	32,485	36.67
Texas	673	Texas	El Paso	435,464	23.4
Texas	780	Texas	Hardin	29,500	N/A
Texas	288	Houston	Harris	33,102	21.33
Texas	287	Houston	Harris	12,892	40.67
Texas	593	Texas	Galveston	80,000	36.25
Texas	449	Houston	Harris	8,610	57.33
Texas	56	Houston	Harris	70,900	38.67
Texas	367	Houston	Harris	109,414	10.67
Texas	406	Houston	Harris	59,188	37
Texas	135	Houston	Harris	16,030	23

Texas	439	Houston	Harris	85,129	38.67
Texas	665	Texas	Dallas	179,800	N/A
Texas	201	Houston	Harris	124,000	28
Texas	443	Houston	Harris	3,623	44
Texas	811	Texas	Bexar	533,956	new site
Texas	250	Houston	Harris	20,161	33
Texas	434	Houston	Fort Bend, Harris	20,920	19.33
Texas	149	Houston	Harris	4,170	22
Texas	160	Houston	Harris	40,689	33.33
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	24.67
Texas	867	Texas	Webb	140,000	new site
Texas	446	Houston	Harris	20,758	38
Texas	375	Houston	Harris	293,227	82.33
Texas	272	Houston	Harris	4,010	37
Texas	97	Houston	Harris	37,359	24.67
Texas	307	Houston	Harris	5,497	36.67
Texas	667	Texas	Galveston	40,000	36.75
Texas	290	Houston	Harris	95,600	38.67
Texas	40	Houston	Harris	117,968	21
Texas	207	Houston	Montgomery, Harris	52,055	30
Texas	176	Houston	Harris	9,375	17.67
Texas	481	Texas	Dallas	200,000	N/A
Texas	289	Houston	Harris	19,867	36.67
Texas	113	Houston	Harris	3,825	28.67
Texas	709	Texas	El Paso	169,744	new site
Texas	409	Houston	Harris	97,918	31.33
Texas	366	Houston	Harris	109,414	16.67
Texas	863	Texas	Webb	30,000	new site
Texas	681	Texas	El Paso	142,388	N/A
Texas	848	Texas	Bexar	691,672	new site
Utah	15	Utah	San Juan, Grand	9,896	37.2
Utah	16	Utah	Davis, Weber	228,700	34
Utah	33	Utah	Utah	253,112	30
Utah	9	Utah	Weber, Davis	208,850	25.75
Utah	12	Utah	Cache	94,005	27.6
Utah	21	Utah	Duchesne	6,790	18.2
Utah	11	Utah	Utah, Salt Lake	94,484	26
Utah	3	Utah	Box Elder	21,443	25.75
Utah	31	Utah	Utah	35,840	34.2
Utah	24	Utah	Davis	84,981	27.6
Utah	5	Utah	Iron	32,451	30.6
Utah	20	Utah	Utah	21,231	33.8
Utah	32	Utah	Tooele	36,244	32.2
Utah	17	Utah	Utah	112,901	34
Utah	28	Utah	Salt Lake	209,645	40.6
Utah	29	Utah	Utah	12,510	27.2
Utah	25	Utah	Davis	21,872	33.2
Utah	1	Utah	Washington	24,970	30.6
Utah	30	Utah	Salt Lake	254,971	35.6
Utah	23	Utah	Summit	8,530	14.2
Utah	11	Utah	Salt Lake	89,507	35.2
Utah	26	Utah	Utah	53,313	29.8
Utah	22	Utah	Summit	23,304	38.4
Utah	19	Utah	Carbon	17,312	25.4
Utah	10	Utah	Cache	9,095	27.8
Utah	18	Utah	Utah	102,624	30
Utah	27	Utah	Washington	92,047	29.8

Utah	7	Utah	Salt Lake	515,494	35.2
Utah	6	Utah	Davis	64,533	21
Utah	34	Utah	Box Elder	12,451	22.8
Utah	2	Utah	Uintah	29,513	19.4
Vermont	770	Vermont	Franklin	7,500	83.33
Vermont	701	Vermont	Chittenden	8,500	89
Vermont	796	Vermont	Windsor	9,000	56.67
Virginia	467	Virginia	Hanover	10,000	39
Virginia	589	Virginia	York, Newport News City, Mathews, Poquoson City, Gloucester, Hampton City	99,112	N/A
Virginia	586	Virginia	Suffolk City, Portsmouth City, Chesapeake City, Isle Of Wight	197,608	N/A
Virginia	177	Virginia	Virginia Beach City, Chesapeake City	343,016	41
Virginia	588	Virginia	Newport News City, Williamsburg City, New Kent, York, James City	69,059	N/A
Virginia	342	Virginia	Henrico, Goochland, Richmond City	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	Petersburg City, Prince George, Hopewell City, Dinwiddie, Colonial Heights City, Chesterfield	71,416	new site
Virginia	262	Virginia	Albemarle	118,266	47.33
Virginia	38	Virginia	Fairfax, Alexandria City	300,000	new site
Virginia	308	Virginia	Frederick	16,563	22.67
Virginia	310	Virginia	Pulaski, Radford, Montgomery	70,000	8.67
Virginia	229	Virginia	Amherst, Campbell, Bedford City	220,000	N/A
Virginia	873	Virginia	Chesapeake City, Norfolk City, Virginia Beach City	187,832	N/A
Virginia	42	Virginia	Prince William, Stafford	92,000	new site
Virginia	181	Virginia	Newport News City, New Kent, Williamsburg City, James City, York	69,059	48.33
Virginia	178	Virginia	Portsmouth City, Suffolk City, Isle Of Wight, Chesapeake City	197,608	38.33
Virginia	582	Virginia	Norfolk City, Hampton City	78,322	N/A
Virginia	100	Virginia	Pittsylvania	47,000	17.67
Virginia	587	Virginia	Virginia Beach City, Norfolk City, Portsmouth City, Chesapeake City	192,347	N/A
Virginia	180	Virginia	Portsmouth City, Norfolk City, Chesapeake City, Virginia Beach City	192,347	33.33
Virginia	286	Virginia	Rockingham, Harrisonburg City	81,000	28
Virginia	872	Virginia	Virginia Beach City, Norfolk City, Chesapeake City	343,016	N/A
Virginia	342	Virginia	Richmond City, Henrico, Goochland	225,000	19
Virginia	540	Virginia	Martinsville City, Henry	16,500	33
Virginia	346	Virginia	Salem, Roanoke City, Botetourt, Roanoke	300,000	24
Virginia	169	Virginia	Prince William, Fairfax, Stafford	165,901	36.67
Virginia	714	Virginia	Orange	4,721	N/A
Virginia	38	Virginia	Alexandria City, Fairfax	300,000	57.67
Virginia	220	Virginia	Stafford	44,000	35
Virginia	410	Virginia	Loudoun, Fairfax City, Fairfax, Prince William, Manassas City, Manassas Park City, Fauquier	350,000	52.33
Virginia	118	Virginia	Wise	14,000	26
Virginia	584	Virginia	Hampton City, Newport News City	118,497	N/A
Virginia	454	Virginia	Washington	7,300	22.33
Virginia	469	Virginia	Hanover	12,000	26.25
Virginia	51	Virginia	Loudoun	10,178	33.33
Virginia	61	Virginia	Montgomery	52,500	37
Virginia	42	Virginia	Stafford, Prince William	92,000	45
Virginia	220	Virginia	Stafford	44,000	new site
Virginia	400	Virginia	Montgomery	23,000	26
Virginia	118	Virginia	Wise	14,000	new site
Washington	510	Washington	Clark	120,000	36
Washington	760	Washington	Spokane	120,000	37.33
Washington	804	Washington	Clark	16,950	new site

Washington	759	Washington	Spokane	225,000	14.25
Washington	676	Washington	Snohomish, King	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	36
Washington	768	Washington	Snohomish	110,000	66.67
Washington	661	Washington	Snohomish	38,000	N/A
Washington	679	Washington	Snohomish	7,300	N/A
Washington	758	Washington	Benton	83,000	27.29
Washington	504	Washington	Clark	120,000	39
Washington	753	Washington	Franklin	73,000	25.5
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	57.75
Washington	755	Washington	Benton	15,000	17.5
West Virginia	601	West Virginia	Cabell, Wetzel, Wood, Wirt, Wyoming, Wayne, Webster	56,000	17.89
West Virginia	206	West Virginia	Mineral	8,168	22.55
West Virginia	387	West Virginia	Monongalia	48,328	29.82
West Virginia	592	West Virginia	Harrison	80,000	new site
West Virginia	460	West Virginia	Jefferson	17,000	24.63
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	36.83
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	35.7
West Virginia	459	West Virginia	Kanawha	50,000	43.36
West Virginia	789	West Virginia	Raleigh	88,900	N/A
West Virginia	680	West Virginia	Harrison	80,000	N/A
West Virginia	445	West Virginia	Ohio	50,000	26
West Virginia	465	West Virginia	Wood	48,050	N/A
West Virginia	466	West Virginia	Mercer	36,000	19.71
Wisconsin	257	Wisconsin	Waukesha, Ozaukee, Milwaukee, Washington, Racine	615,934	63.2
Wisconsin	231	Wisconsin	Dane	345,000	28.85
Wisconsin	128	Wisconsin	Brown	43,000	23.6
Wisconsin	243	Wisconsin	Juneau	4,400	16
Wisconsin	447	Wisconsin	Walworth, Jefferson	14,500	38
Wisconsin	433	Wisconsin	Marathon	42,350	35.2
Wisconsin	389	Wisconsin	Portage	27,000	23.8
Wisconsin	136	Wisconsin	Eau Claire, Chippewa	73,000	32.4
Wisconsin	339	Wisconsin	Oneida	7,800	N/A
Wisconsin	209	Wisconsin	La Crosse	85,000	24.4
Wisconsin	246	Wisconsin	Dunn	5,000	26.33
Wisconsin	203	Wisconsin	Kenosha	122,000	27
Wisconsin	223	Wisconsin	Columbia	3,100	18.67
Wisconsin	344	Wisconsin	Pierce, Saint Croix	15,900	13
Wisconsin	391	Wisconsin	Dane	33,000	26.6
Wisconsin	340	Wisconsin	Taylor	7,600	N/A
Wisconsin	239	Wisconsin	Wood, Marathon	19,300	24.8
Wisconsin	164	Wisconsin	Kewaunee, Brown	189,000	44.6
Wisconsin	453	Wisconsin	Wood	21,000	N/A
Wisconsin	431	Wisconsin	Waukesha	72,000	N/A
Wisconsin	172	Wisconsin	Dodge, Washington	17,320	23.67
Wisconsin	473	Wisconsin	Marathon, Wood	19,684	29.2
Wisconsin	153	Wisconsin	Waukesha	51,000	37.2

Wisconsin	256	Wisconsin	Milwaukee, Ozaukee	470,007	31.75
Wisconsin	115	Wisconsin	Waupaca	14,000	28.8
Wisconsin	57	Wisconsin	Green Lake, Waushara	5,500	N/A
Wisconsin	210	Wisconsin	Vilas	3,400	N/A
Wisconsin	297	Wisconsin	Waukesha, Jefferson	22,300	29.5
Wisconsin	420	Wisconsin	Vernon	4,400	29.4
Wisconsin	392	Wisconsin	Douglas	28,000	35.6
Wisconsin	41	Wisconsin	Calumet, Winnebago, Outagamie	72,810	65.2
Wisconsin	318	Wisconsin	Grant	11,000	29.2
Wisconsin	212	Wisconsin	Walworth	8,430	N/A
Wisconsin	260	Wisconsin	Green	11,000	17.4
Wisconsin	325	Wisconsin	Columbia	11,000	43
Wisconsin	248	Wisconsin	Lincoln	9,700	11.33
Wisconsin	313	Wisconsin	Marinette	3,500	33.33
Wisconsin	696	Wisconsin	Dodge, Jefferson	23,660	34.8
Wisconsin	44	Wisconsin	Ashland	8,200	24.33
Wisconsin	232	Wisconsin	Manitowoc	34,500	15.67
Wisconsin	331	Wisconsin	Racine	139,000	44.5
Wisconsin	60	Wisconsin	Jackson	5,000	27
Wisconsin	90	Wisconsin	Ozaukee	12,400	N/A
Wisconsin	182	Wisconsin	Saint Croix	14,000	36.75
Wisconsin	364	Wisconsin	Sheboygan	75,000	13.6
Wisconsin	320	Wisconsin	Sheboygan	9,150	35.33
Wisconsin	302	Wisconsin	Winnebago	78,300	37.4
Wisconsin	236	Wisconsin	Marinette	11,000	22
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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