COVID Data Tracker

Maps, charts, and data provided by CDC, updates Mon-Fri by 8 pm ET

CDC recommends use of COVID-19 Community Levels to determine the impact of COVID-19 on communities and to take action. CDC also provides Transmission Levels (also known as Community Transmission) to describe the amount of COVID-19 spread within each county. Healthcare facilities use Transmission Levels to determine infection control interventions.

United States At a Glance

Cases Total
91,995,280
Case Trends

Deaths Total
1,028,854
Death Trends

Current **Hosp.**
22,406
Admission Trends

34.4% of People 5+ with First Booster

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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 standardizes and interprets these data and presents them in the COVID Data Tracker. How often sites collect wastewater samples and how frequently data are reported to CDC varies by health department.

Wastewater data are meant to be used with other COVID-19 surveillance data to better understand COVID-19's spread in a community. Learn more about wastewater data by exploring each of the charts and maps.

View information about the data and download the data.

On This Page

Monitoring Wastewater Surveillance Data

Wastewater Metric Chart

Wastewater Metric Map

Data Downloads

Terms to Know

About the Data

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

View Footnotes and Download Data

Wastewater Metric Chart

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

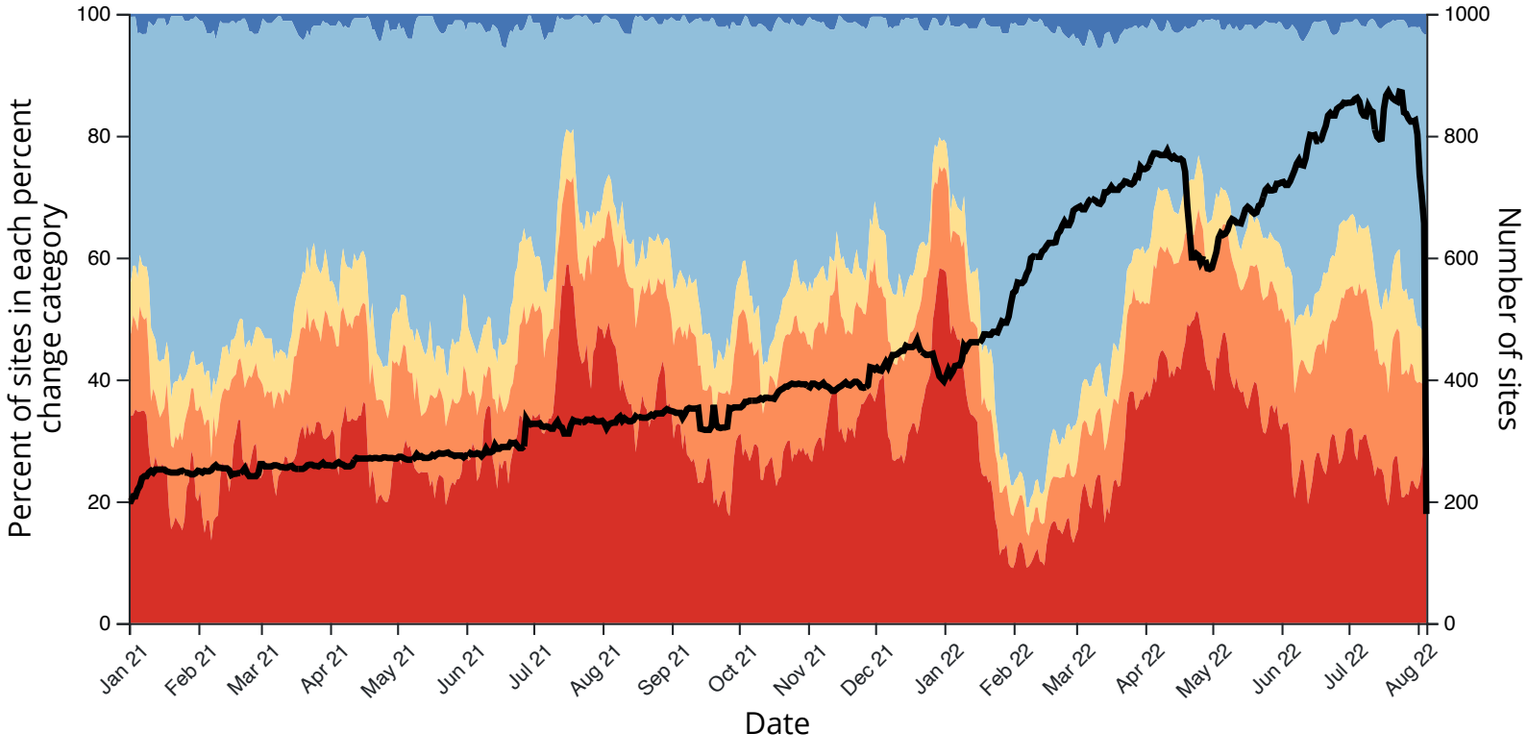
The percent change metric shows whether virus levels have increased or decreased at sites over the last 15 days.

- Blue categories (Large decrease (-100%); Decrease (-99% to -10%)): Virus levels decreased at these sites in the last 15 days.
- Yellow category (Stable (-9% to 9%)): Virus levels stayed about the same at these sites in the last 15 days.
- Orange and red categories (Increase (10% to 99%); Large increase (100% or more)): Virus levels increased at these sites in the last 15 days.

The chart shows the overall percent of sites that were in each category over time since January 1, 2021. If more area on the chart is shaded light or dark blue, it means virus levels were decreasing at more sites at that point in time. If more area on the chart is shaded red or orange, it means virus levels were increasing at more sites at that point in time. Since the percent change in the last 15 days metric may be affected by how many wastewater plants were collecting wastewater samples, the black line shows the number of sampling sites with available data for each date.

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

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



Percent change categories

- Large decrease (-100%)
- Decrease (-99% to -10%)
- Stable (-9 to 9%)
- Increase (10 to 99%)
- Large increase (100% or more)

Number of sites

Download

Wastewater Metric Map

State or territory:

Select State or Territory

County:

Select a state in order to enable county select

Reset Selections

Time Period: Jul 22, 2022 – Aug 05, 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:

- [x] Sites with no recent data
- [x] 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.

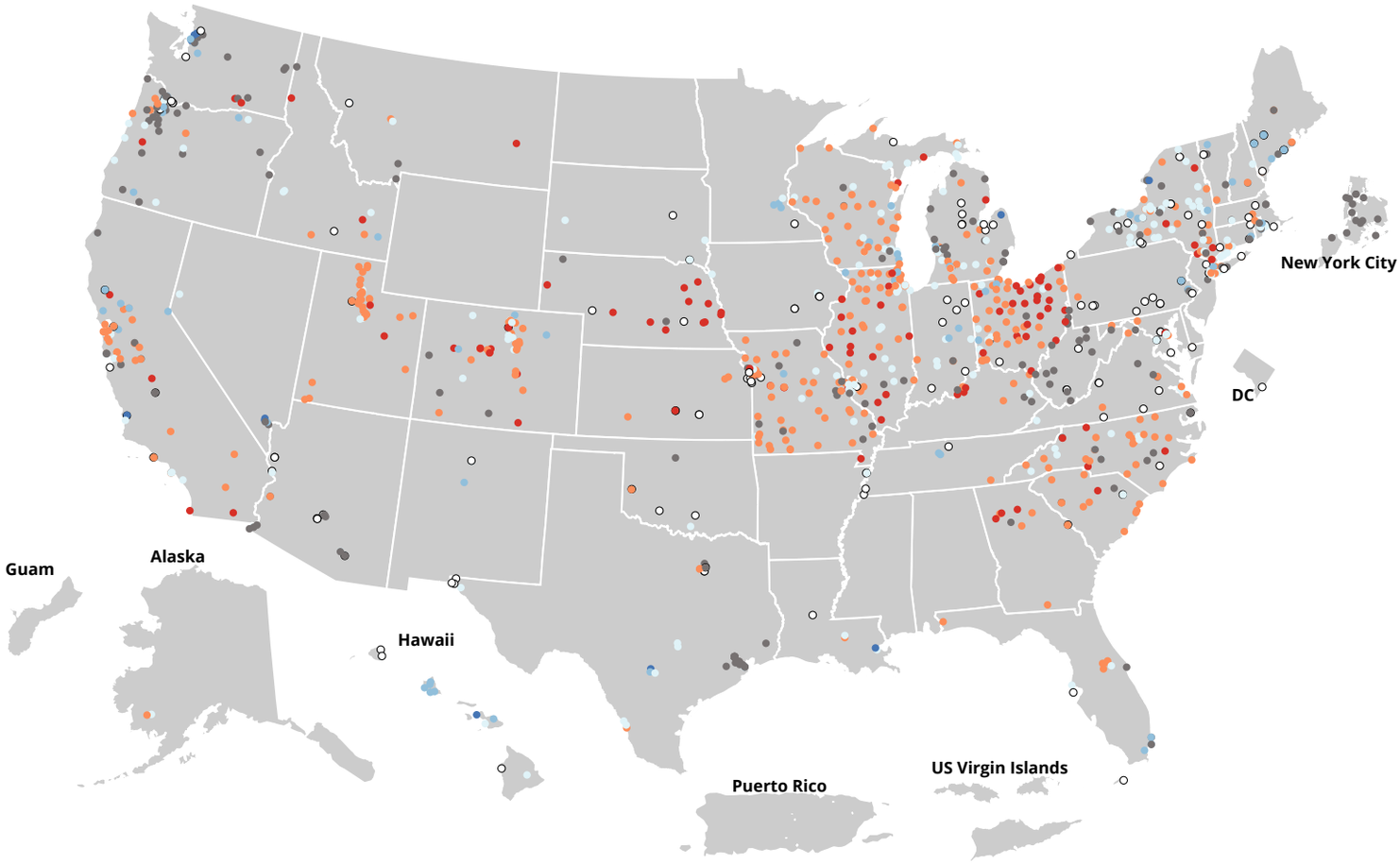
Current SARS-CoV-2 virus levels by site, United States

Current virus levels category	Num. sites	% sites	Category change in last 7 days
New Site	142	16	1%
0% to 19%	13	1	117%
20% to 39%	79	9	5%
40% to 59%	219	24	– 9%
60% to 79%	341	38	– 10%
80% to 100%	101	11	– 19%

Total sites with current data: 895

Total number of wastewater sampling sites: 1128

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



Select legend categories to filter points on the map.

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

Data Downloads and Footnotes

Expand each accordion to view data table and download data

View Historic Wastewater Data

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

CDC | Data as of: Monday, August 8, 2022 1:49 PM ET. Posted: Monday, August 8, 2022 2:55 PM ET

Download Data

Jurisdiction	Sewershed ID	Reporting Jurisdiction	County	Population Served	Current Virus Levels (in %)
Alaska	1158	Alaska	Anchorage	15,000	55.75
Alaska	1172	Alaska	Anchorage	200,000	65.4
Arizona	1212	Arizona	Maricopa	9,430	N/A
Arizona	1212	Arizona	Maricopa	17,280	N/A
Arizona	1212	Arizona	Maricopa	64,521	N/A
Arizona	1055	Arizona	Yuma	4,725	47.8
Arizona	1054	Arizona	Yuma	10,873	N/A
Arizona	808	Arizona	Mohave	22,000	new site
Arizona	501	Arizona	La Paz	3,500	N/A

Arizona	808	Arizona	Mohave	37,500	53.6
Arizona	1382	Arizona	Maricopa	50,000	new site
Arizona	1334	Arizona	Maricopa	150,000	new site
Arizona	1327	Arizona	Mohave	30,000	new site
Arizona	1383	Arizona	Maricopa	2,400,000	new site
Arizona	590	Arizona	Pima	347,900	32.8
Arizona	1053	Arizona	Yuma	8,271	N/A
Arizona	1059	Arizona	Yuma	18,039	N/A
Arizona	1212	Arizona	Maricopa	9,848	N/A
Arizona	1212	Arizona	Maricopa	12,542	N/A
Arizona	1271	Arizona	Pima	23,000	new site
Arizona	1327	Arizona	Mohave	30,000	new site
Arizona	1334	Arizona	Maricopa	150,000	new site
Arizona	501	Arizona	La Paz	3,500	60
Arizona	715	Arizona	Pima	397,407	45.2
Arizona	590	Arizona	Pima	303,176	N/A
Arizona	715	Arizona	Pima	418,268	N/A
Arizona	1212	Arizona	Maricopa	6,500	N/A
Arkansas	741	Arkansas	Mississippi	5,500	new site
Arkansas	591	Arkansas	Mississippi	6,500	new site
Arkansas	741	Arkansas	Mississippi	5,500	59
California	59	California	Kern	168,750	76.14
California	357	California	San Diego	2,200,000	84.43
California	354	California	Santa Clara	153,000	72.73
California	305	California	Santa Clara	236,000	77.13
California	247	California	Merced	91,000	N/A
California	215	California	Ventura, Los Angeles	4,000,000	78
California	1019	California	Lake	13,200	81
California	830	California	San Luis Obispo	47,000	new site
California	543	California	San Benito	40,000	N/A
California	1028	California	Santa Cruz	160,000	N/A
California	724	California	Contra Costa	215,394	31.5
California	506	California	Los Angeles, Ventura	100,000	52.5
California	461	California	Humboldt	43,173	46
California	1230	California	San Luis Obispo	47,400	14.2
California	1199	California	Kings	59,000	new site
California	1173	California	Contra Costa	494,300	new site
California	1199	California	Kings	59,000	N/A
California	1209	California	Marin	13,000	73.4
California	1219	California	Lake	5,000	new site

California	1288	California	El Dorado	40,000	27.2
California	1387	California	Monterey	250,000	new site
California	564	California	Alameda	60,000	42
California	570	California	Sonoma	220,000	39.2
California	778	California	Lake	10,080	36.6
California	802	California	Santa Cruz	85,000	61.8
California	461	California	Humboldt	45,000	N/A
California	779	LA County	Los Angeles	197,000	N/A
California	126	California	Yolo	70,717	70.8
California	1373	California	Stanislaus	230,000	63.8
California	1377	California	Yolo	7,285	63.9
California	1378	California	Yolo	59,000	39.18
California	137	California	Alameda, Contra Costa	740,000	74.63
California	158	California	Fresno	650,000	82.33
California	211	California	Los Angeles	3,500,000	55.43
California	258	California	Stanislaus	230,000	N/A
California	353	California	Santa Clara	1,500,000	76.93
California	362	California	San Francisco, San Mateo	250,000	74.27
California	362	California	San Mateo, San Francisco	210,000	79.29
California	1173	California	Contra Costa	494,300	36.5
California	1320	California	Ventura	230,000	new site
California	495	California	Santa Cruz	60,000	51.25
California	763	California	Santa Cruz	160,000	38
California	779	California	Los Angeles	200,000	59
California	793	California	San Luis Obispo	39,000	49.4
California	803	California	Santa Cruz	150,000	55.2
California	834	California	Riverside	91,765	63.5
California	1026	California	Santa Cruz	160,000	N/A
California	1027	California	Santa Cruz	160,000	N/A
California	1188	California	Ventura	220,000	75
California	1361	California	Stanislaus	86,000	60.73
California	1365	California	Yolo	3,272	39.46
California	1371	California	Merced	42,000	67.3
California	1372	California	Merced	91,000	66.2
California	299	California	Orange	1,800,000	44
California	352	California	Santa Clara	110,338	68.6
California	356	California	San Bernardino	325,000	77.86
California	363	California	San Mateo, San Francisco	750,000	76
California	383	California	Sacramento	1,480,000	69.33
California	393	California	San Mateo	199,000	65.4

California	77	California	Imperial	40,000	81
California	88	California	Contra Costa	484,800	79.43
Colorado	928	Colorado	Weld	20,000	55
Colorado	887	Colorado	Summit	18,571	89
Colorado	841	Colorado	Adams	21,429	69.67
Colorado	751	Colorado	Mesa	89,286	N/A
Colorado	748	Colorado	El Paso	34,286	84
Colorado	737	Colorado	Alamosa	18,364	N/A
Colorado	437	Colorado	Larimer	9,292	36
Colorado	372	Colorado	Denver, Arapahoe	247,443	56.4
Colorado	163	Colorado	Weld	83,319	64.2
Colorado	161	Colorado	Garfield	16,714	83
Colorado	1351	Colorado	Larimer	5,818	new site
Colorado	1290	Colorado	Garfield	7,300	38.2
Colorado	116	Colorado	El Paso	102,203	67.2
Colorado	117	Colorado	El Paso	303,855	69.2
Colorado	122	Colorado	Summit	7,857	72.75
Colorado	151	Colorado	Larimer	92,126	55.4
Colorado	152	Colorado	Larimer	26,621	58
Colorado	224	Colorado	Boulder, Weld	75,543	60.4
Colorado	251	Colorado	Denver	345,453	65.6
Colorado	368	Colorado	Adams	54,560	68.8
Colorado	370	Colorado	Larimer	23,193	69
Colorado	408	Colorado	Summit	35,643	90.75
Colorado	49	Colorado	Arapahoe, Adams	268,003	70.4
Colorado	578	Colorado	Las Animas	14,286	81.33
Colorado	58	Colorado	Weld, Larimer	7,946	60.75
Colorado	656	Colorado	La Plata	23,429	79.25
Colorado	66	Colorado	Boulder	89,383	55
Colorado	72	Colorado	Broomfield	53,355	52
Colorado	747	Colorado	Arapahoe	25,714	68.75
Colorado	843	Colorado	Eagle	30,714	81.25
Colorado	844	Colorado	Eagle	19,286	76
Colorado	845	Colorado	Summit	14,286	78
Colorado	142	Colorado	Larimer	5,818	82.5
Colorado	150	Colorado	Larimer	17,997	79.2
Colorado	226	Colorado	Boulder	17,600	40
Colorado	227	Colorado	Larimer	66,428	55.4
Colorado	252	Colorado	Denver	709,904	63
Colorado	329	Colorado	Pueblo	96,514	72.8

Colorado	396	Colorado	San Miguel	15,000	N/A
Colorado	47	Colorado	Pitkin	5,500	72.75
Colorado	556	Colorado	Morgan	12,000	21.2
Colorado	576	Colorado	Routt	43,741	58
Colorado	657	Colorado	Summit	28,571	84
Colorado	749	Colorado	Eagle	21,071	82.75
Colorado	846	Colorado	Gunnison	30,000	58.33
Connecticut	832	Connecticut	New London	40,000	new site
Connecticut	291	Connecticut	Fairfield	75,000	51
Connecticut	1163	Connecticut	New London	22,000	34.2
Connecticut	1079	Connecticut	New Haven	228,000	48
Connecticut	1196	Connecticut	New Haven	19,500	66.6
Connecticut	686	Connecticut	New Haven	112,000	56
Connecticut	806	Connecticut	Fairfield	65,000	77.2
Connecticut	795	Connecticut	Windham	10,000	new site
Connecticut	534	Connecticut	Fairfield	100,000	54.4
Connecticut	771	Connecticut	Fairfield	120,000	54.6
Connecticut	832	Connecticut	New London	40,000	N/A
Connecticut	806	Connecticut	Fairfield	70,000	new site
District of Columbia	486	District of Columbia	District Of Columbia	1,600,000	54.6
District of Columbia	486	District of Columbia	District Of Columbia	1,600,000	new site
Florida	1145	Florida	Seminole	43,010	66
Florida	1144	Florida	Seminole, Orange	51,000	69.5
Florida	781	Florida	Miami-Dade	776,150	N/A
Florida	671	Florida	Orange	463,672	61.6
Florida	670	Florida	Orange	59,587	69.4
Florida	574	Florida	Pinellas	220,000	49.8
Florida	511	Florida	Pinellas	103,000	53
Florida	574	Florida	Pinellas	220,000	new site
Florida	668	Florida	Miami-Dade	920,528	31.8
Florida	490	Florida	Brevard	10,500	N/A
Florida	669	Florida	Orange	277,823	50.8
Florida	706	Florida	Escambia	197,000	60
Florida	711	Florida	Miami-Dade	829,725	23.4
Florida	781	Florida	Miami-Dade	776,150	36
Florida	711	Florida	Miami-Dade	829,725	N/A
Florida	829	Florida	Monroe	50,000	new site
Georgia	1074	Georgia	Paulding	8,000	78
Georgia	1071	Georgia	Paulding	10,000	86.4

Georgia	684	Georgia	Dekalb	325,000	45.33
Georgia	476	Georgia	Richmond	197,191	new site
Georgia	476	Georgia	Richmond	197,191	69.5
Georgia	1109	Georgia	Lowndes	65,000	78.8
Georgia	1073	Georgia	Cobb	190,000	80.25
Georgia	1309	Georgia	Newton	32,000	74.8
Georgia	684	Georgia	Dekalb	300,000	N/A
Georgia	1072	Georgia	Gwinnett	650,000	91.6
Georgia	1169	Georgia	Clarke	56,500	74.2
Hawaii	1221	Hawaii	Hawaii	32,600	40
Hawaii	1205	Hawaii	Maui	49,000	45.2
Hawaii	1203	Hawaii	Honolulu	300,000	37.4
Hawaii	1181	Hawaii	Maui	59,000	33
Hawaii	1204	Hawaii	Honolulu	109,236	29.4
Hawaii	1208	Hawaii	Honolulu	20,800	32
Hawaii	1286	Hawaii	Kauai	6,900	new site
Hawaii	1337	Hawaii	Hawaii	5,000	new site
Hawaii	1175	Hawaii	Maui	52,000	15
Hawaii	710	Hawaii	Kauai	10,000	32
Hawaii	710	Hawaii	Kauai	10,000	new site
Hawaii	790	Hawaii	Honolulu	700,000	37.4
Hawaii	798	Hawaii	Honolulu	48,519	22.8
Idaho	819	Idaho	Latah	24,000	84.83
Idaho	1228	Idaho	Caribou	3,200	36.25
Idaho	1227	Idaho	Bannock	75,000	69.67
Idaho	1225	Idaho	Bingham	14,045	84.67
Idaho	1067	Idaho	Twin Falls	48,951	68.4
Idaho	818	Idaho	Ada	120,344	57.57
Idaho	1066	Idaho	Bonneville	60,000	49.5
Idaho	1129	Idaho	Kootenai	38,500	N/A
Idaho	1347	Idaho	Minidoka	6,200	new site
Idaho	992	Idaho	Ada	167,500	49.29
Illinois	605	Illinois	Saint Clair	26,150	73.25
Illinois	615	Illinois	Randolph	6,814	N/A
Illinois	616	Illinois	Christian	12,663	82
Illinois	619	Illinois	Vermilion	30,479	84.25
Illinois	622	Illinois	Effingham	12,384	51
Illinois	624	Illinois	Stephenson	27,218	70
Illinois	627	Illinois	Morgan	23,818	87.4
Illinois	628	Illinois	Kankakee	56,317	69.8
Illinois	631	Illinois	Mcdonough	22,004	66.4
Illinois	635	Illinois	Cook	1,134,897	70.55
Illinois	636	Illinois	Cook	110,394	59.29
Illinois	638	Illinois	Cook	1,127,736	47.6
Illinois	641	Illinois	Cook	217,106	62.71
Illinois	643	Illinois	Lake	55,735	60.4
Illinois	644	Illinois	Lake	105,208	74.8
Illinois	645	Illinois	Lake	126,629	79
Illinois	647	Illinois	Peoria	157,379	69.2
Illinois	654	Illinois	Whiteside	18,678	73.2

Illinois	655	Illinois	Champaign	91,041	71
Illinois	675	Chicago	Cook	54,458	51.4
Illinois	731	Illinois	Bureau	5,223	75.2
Illinois	857	Illinois	Lawrence	4,399	76
Illinois	894	Illinois	Lee	15,115	69.75
Illinois	972	Illinois	Saint Clair	32,289	76
Illinois	979	Illinois	Mclean	44,237	54
Illinois	1252	Illinois	Du Page	59,805	43.75
Illinois	1243	Illinois	Du Page	76,324	49.75
Illinois	683	Illinois	Cook	161,000	21.6
Illinois	546	Illinois	Kankakee	65,000	63
Illinois	462	Illinois	Winnebago	240,000	44.4
Illinois	1244	Illinois	Du Page	86,000	38.6
Illinois	603	Illinois	Kane	11,290	83.5
Illinois	606	Illinois	Saint Clair	26,150	71.25
Illinois	607	Illinois	Boone	41,500	60.6
Illinois	611	Illinois	Fulton	13,506	92
Illinois	612	Illinois	Greene	3,064	73.6
Illinois	613	Illinois	Marion	15,738	N/A
Illinois	620	Illinois	Macon	70,746	71.2
Illinois	621	Illinois	Perry	6,448	92
Illinois	625	Illinois	Jo Daviess	3,460	31.8
Illinois	632	Illinois	Cook	270,647	58.14
Illinois	633	Illinois	Warren	10,836	83
Illinois	634	Illinois	Jefferson	21,169	86.67
Illinois	635	Chicago	Cook	3,590	61.2
Illinois	642	Illinois	Du Page	128,358	64.4
Illinois	646	Illinois	Richland	8,968	N/A
Illinois	675	Chicago	Cook	215,718	57.5
Illinois	697	Illinois	Rock Island	25,202	79.6
Illinois	698	Illinois	Rock Island	43,768	84.6
Illinois	699	Illinois	Tazewell	30,997	79.67
Illinois	871	Illinois	La Salle	18,307	80.8
Illinois	978	Illinois	Mclean	42,000	47
Illinois	980	Illinois	Mclean	44,237	54.25
Illinois	981	Illinois	De Kalb	43,862	72.6
Illinois	982	Illinois	Cook	1,263,110	70.9
Illinois	682	Illinois	Cook	265,000	60
Illinois	1062	Illinois	Kendall	210,655	77.67
Illinois	1100	Illinois	Du Page	40,438	44.2

Illinois	1246	Illinois	Du Page	65,000	46
Illinois	1247	Illinois	Lake	80,000	32
Illinois	1316	Illinois	Will	50,000	40
Illinois	1326	Illinois	Saint Clair	85,593	new site
Illinois	462	Illinois	Winnebago	353,599	62.6
Illinois	602	Illinois	Union	4,442	84.8
Illinois	604	Illinois	Cass	5,446	95
Illinois	617	Illinois	Mchenry	78,261	75
Illinois	623	Illinois	Clay	5,070	58.6
Illinois	626	Illinois	Knox	39,153	72.6
Illinois	635	Chicago	Cook	70,645	66.6
Illinois	637	Illinois	Cook	13,098	50.14
Illinois	639	Illinois	Cook	1,127,736	61.64
Illinois	649	Illinois	Bureau	7,555	78
Illinois	650	Illinois	Adams	50,695	81
Illinois	651	Illinois	Carroll	5,615	61.5
Illinois	652	Illinois	Shelby	5,329	59
Illinois	653	Illinois	Macoupin	4,480	57
Illinois	674	Chicago	Cook	52,306	54.2
Illinois	674	Chicago	Cook	91,964	60.8
Illinois	675	Chicago	Cook	203,376	56.2
Illinois	983	Illinois	Mchenry	15,000	82
Illinois	984	Illinois	Du Page	18,800	73
Indiana	1319	Indiana	Howard	45,000	new site
Indiana	1318	Indiana	Huntington	17,612	new site
Indiana	1281	Indiana	Delaware	67,000	34.8
Indiana	1273	Indiana	Dubois	16,000	69
Indiana	1273	Indiana	Dubois	16,000	new site
Indiana	1293	Indiana	St Joseph	100,000	57.6
Indiana	1352	Indiana	Jefferson	16,000	new site
Indiana	765	Indiana	Monroe	22,500	40.8
Indiana	828	Indiana	Hamilton	84,000	53.4
Indiana	1162	Indiana	Hamilton	98,000	23.6
Indiana	1267	Indiana	Kosciusko	14,000	new site
Indiana	1269	Indiana	Lake	28,000	53.4
Indiana	1289	Indiana	Vigo	58,500	69.2
Indiana	1314	Indiana	Wayne	36,000	55.67
Indiana	1350	Indiana	Allen	72,200	new site
Indiana	678	Indiana	Bartholomew	49,000	73
Indiana	772	Indiana	Monroe	67,500	56.8

Indiana	678	Indiana	Bartholomew	50,000	N/A
Iowa	1303	Iowa	Woodbury	102,000	52.75
Iowa	105	Iowa	Johnson	21,000	48.4
Iowa	1356	Iowa	Mahaska	6,357	new site
Iowa	1355	Iowa	Mahaska	5,201	new site
Iowa	544	Iowa	Johnson	75,849	new site
Iowa	544	Iowa	Johnson	75,849	new site
Kansas	703	Kansas	Reno	40,000	new site
Kansas	787	Kansas	Shawnee	90,000	74.8
Kansas	472	Kansas	Reno	40,000	new site
Kansas	1300	Kansas	Johnson	42,235	new site
Kansas	1299	Kansas	Johnson	112,076	new site
Kansas	1292	Kansas	Johnson	66,377	new site
Kansas	1305	Kansas	Johnson	54,985	new site
Kansas	472	Kansas	Reno	40,000	81.4
Kansas	833	Kansas	Shawnee	50,000	64
Kansas	766	Kansas	Butler	13,000	new site
Kansas	766	Kansas	Butler	13,000	new site
Kansas	1304	Kansas	Johnson	73,829	new site
Kansas	807	Kansas	Ford	27,000	66.2
Kentucky	1253	Kentucky	Boyd	32,575	64.33
Kentucky	1254	Kentucky	Rowan	15,212	68.4
Kentucky	1257	Kentucky	Magoffin	3,508	N/A
Kentucky	901	Kentucky	Jefferson	55,928	92
Kentucky	902	Kentucky	Jefferson	295,910	86
Kentucky	904	Kentucky	Jefferson	31,269	71.67
Kentucky	810	Kentucky	Estill	5,000	64.2
Kentucky	1255	Kentucky	Johnson	5,258	43.33
Kentucky	1207	Kentucky	Carroll	3,000	56.4
Kentucky	1256	Kentucky	Floyd	8,664	N/A
Kentucky	903	Kentucky	Jefferson	32,460	82.33
Kentucky	905	Kentucky	Jefferson	349,850	N/A
Louisiana	792	Louisiana	Orleans	389,000	55
Louisiana	727	Louisiana	Orleans	998,000	15
Louisiana	1229	Louisiana	Rapides	60,000	new site
Louisiana	1107	Louisiana	East Baton Rouge	262,326	60
Louisiana	1116	Louisiana	East Baton Rouge	99,712	43.2
Maine	347	Maine	Knox	7,000	N/A
Maine	716	Maine	Cumberland	8,500	37.8
Maine	484	Maine	Franklin	2,750	new site

Maine	475	Maine	Piscataquis	900	70
Maine	347	Maine	Knox	7,000	62.6
Maine	1206	Maine	York	21,000	68.33
Maine	484	Maine	Franklin	2,750	new site
Maine	484	Maine	Franklin	2,750	33.33
Maine	507	Maine	Oxford	1,000	new site
Maine	65	Maine	Lincoln	1,759	new site
Maine	65	Maine	Lincoln	1,700	new site
Maine	1206	Maine	York	21,000	new site
Maine	507	Maine	Oxford	1,000	27.25
Maine	560	Maine	Sagadahoc	8,514	58.8
Maine	65	Maine	Lincoln	1,759	37.25
Maine	475	Maine	Piscataquis	800	N/A
Maine	560	Maine	Sagadahoc	8,500	N/A
Maryland	547	Maryland	Howard	250,000	N/A
Maryland	666	Maryland	Allegany	45,000	70
Maryland	563	Maryland	Wicomico	37,000	76
Maryland	561	Maryland	Washington	90,000	75.8
Maryland	1284	Maryland	Anne Arundel	78,000	46
Maryland	1278	Maryland	Anne Arundel	22,000	new site
Maryland	1278	Maryland	Anne Arundel	22,000	new site
Maryland	1260	Maryland	Anne Arundel	89,000	67.5
Maryland	1262	Maryland	Anne Arundel	11,000	66.6
Maryland	1261	Maryland	Anne Arundel	91,000	new site
Maryland	1261	Maryland	Anne Arundel	91,000	83.5
Maryland	1268	Maryland	Anne Arundel	150,000	51.6
Maryland	1285	Maryland	Anne Arundel	13,000	47.2
Maryland	1348	Maryland	Charles	88,500	new site
Maryland	563	Maryland	Wicomico	37,447	new site
Massachusetts	1384	Massachusetts	Middlesex	180,000	new site
Massachusetts	1180	Massachusetts	Worcester	12,000	63.8
Massachusetts	470	Massachusetts	Hampden	55,000	N/A
Massachusetts	1037	Massachusetts	Suffolk, Middlesex	1,375,228	N/A
Massachusetts	1038	Massachusetts	Norfolk, Middlesex, Suffolk	1,075,656	N/A
Massachusetts	1311	Massachusetts	Bristol	100,000	new site
Massachusetts	1330	Massachusetts	Worcester	3,000	new site
Massachusetts	470	Massachusetts	Hampden	55,000	59.8
Michigan	1018	Michigan	Bay	20,000	55.25
Michigan	1020	Michigan	Dickinson	3,200	52.67
Michigan	1040	Michigan	Ottawa	11,200	53.8

Michigan	1048	Michigan	Calhoun	6,964	56.4
Michigan	1050	Michigan	Saint Joseph	10,681	72.2
Michigan	1051	Michigan	Allegan	4,225	N/A
Michigan	1086	Michigan	Ottawa	20,000	64.2
Michigan	1087	Michigan	Genesee	72,240	N/A
Michigan	1106	Michigan	Iosco	5,000	90
Michigan	1136	Michigan	Clare	3,042	new site
Michigan	1155	Michigan	Tuscola	3,000	new site
Michigan	1168	Michigan	Kent	68,000	N/A
Michigan	1215	Michigan	Kent	41,000	N/A
Michigan	1217	Michigan	Kent	145,000	N/A
Michigan	761	Michigan	Lenawee	8,680	68.08
Michigan	762	Michigan	Washtenaw	330,000	51.8
Michigan	799	Michigan	Washtenaw	150,000	71.69
Michigan	861	Michigan	Saginaw	40,000	79.67
Michigan	874	Michigan	Emmet	7,900	N/A
Michigan	891	Michigan	Kalamazoo	12,366	46.8
Michigan	891	Michigan	Kalamazoo	6,703	34.2
Michigan	891	Michigan	Kalamazoo	45,976	52.6
Michigan	896	Michigan	Wayne, Macomb	492,000	N/A
Michigan	898	Michigan	Oakland, Wayne	840,600	N/A
Michigan	533	Michigan	Alpena	12,000	N/A
Michigan	1039	Michigan	Saint Joseph	7,623	60.5
Michigan	1088	Michigan	Ottawa	25,000	39.8
Michigan	1091	Michigan	Schoolcraft	3,412	97
Michigan	1092	Michigan	Chippewa	15,000	61.5
Michigan	1096	Michigan	Muskegon	125,000	N/A
Michigan	1102	Michigan	Dickinson	13,500	44.33
Michigan	1121	Michigan	Saginaw	6,300	new site
Michigan	1122	Michigan	Otsego	3,670	72.25
Michigan	1138	Michigan	Isabella	25,629	new site
Michigan	1167	Michigan	Kent	15,000	N/A
Michigan	1315	Michigan	Macomb	135,000	N/A
Michigan	756	Michigan	Kent	265,000	N/A
Michigan	757	Michigan	Jackson	90,000	57.82
Michigan	800	Michigan	Genesee	95,000	52.13
Michigan	801	Michigan	Grand Traverse	45,000	53.4
Michigan	823	Michigan	Houghton	14,000	77.5
Michigan	860	Michigan	Gratiot	8,976	78
Michigan	889	Michigan	Ottawa	6,657	58.4

Michigan	889	Michigan	Ottawa	6,524	32.8
Michigan	889	Michigan	Ottawa	45,608	65.2
Michigan	890	Michigan	Ottawa	36,912	58.6
Michigan	891	Michigan	Kalamazoo	14,378	19.25
Michigan	891	Michigan	Kalamazoo	39,068	67.8
Michigan	1036	Michigan	Allegan	5,500	50.2
Michigan	1040	Michigan	Ottawa	3,511	52.4
Michigan	1049	Michigan	Allegan	3,777	67
Michigan	1089	Michigan	Chippewa	6,546	50
Michigan	1090	Michigan	Manistee	8,154	N/A
Michigan	1093	Michigan	Mackinac	3,460	49
Michigan	1104	Michigan	Mackinac	14,000	50
Michigan	1105	Michigan	Menominee	3,842	85
Michigan	1119	Michigan	Roscommon	5,398	new site
Michigan	1125	Michigan	Marquette	25,000	new site
Michigan	1166	Michigan	Huron	4,000	15
Michigan	1214	Michigan	Kent	40,000	N/A
Michigan	1216	Michigan	Midland	40,000	N/A
Michigan	1239	Michigan	Isabella	7,615	new site
Michigan	822	Michigan	Delta	12,600	53.2
Michigan	888	Michigan	Calhoun	70,000	60
Michigan	889	Michigan	Ottawa	11,057	N/A
Michigan	891	Michigan	Kalamazoo	9,709	49.8
Michigan	891	Michigan	Kalamazoo	3,416	34.2
Michigan	891	Michigan	Kalamazoo	11,246	44.2
Michigan	891	Michigan	Kalamazoo	31,189	50.6
Michigan	891	Michigan	Kalamazoo	194,170	74.8
Michigan	895	Michigan	Bay	34,000	new site
Michigan	897	Michigan	Oakland, Macomb	1,482,000	N/A
Minnesota	494	Minnesota	Olmsted	115,000	N/A
Minnesota	993	Minnesota	Scott, Dakota	150,000	35.4
Minnesota	494	Minnesota	Olmsted	115,000	new site
Minnesota	1108	Minnesota	Scott, Dakota	250,000	33.8
Minnesota	783	Minnesota	Dakota, Anoka, Ramsey, Hennepin, Washington	1,950,000	46.6
Minnesota	849	Minnesota	Hennepin, Carver, Scott	300,000	32.8
Missouri	119	Missouri	Boone	123,180	62.67
Missouri	139	Missouri	Miller	4,895	56
Missouri	143	Missouri	Saint Francois	10,114	63.67
Missouri	171	Missouri	Marion, Ralls	16,000	77

Missouri	195	Missouri	Cass, Jackson, Johnson	490,000	69
Missouri	218	Missouri	Clay	35,300	57
Missouri	238	Missouri	Saline	10,113	32
Missouri	253	Missouri	Audrain	11,500	51.33
Missouri	266	Missouri	Jefferson, Saint Louis	24,174	57.67
Missouri	268	Missouri	Saint Louis	451,367	61
Missouri	280	Missouri	Vernon	8,082	70.5
Missouri	295	Missouri	Jackson	7,985	new site
Missouri	312	Missouri	Perry	9,000	75.33
Missouri	317	Missouri	Platte	8,000	N/A
Missouri	321	Missouri	Butler	17,000	73.33
Missouri	358	Missouri	Pettis	7,500	93.5
Missouri	359	Missouri	Pettis	8,250	93.33
Missouri	385	Missouri	Buchanan	27,000	64.67
Missouri	386	Missouri	Saint Charles	60,000	N/A
Missouri	429	Missouri	Franklin	15,000	N/A
Missouri	69	Missouri	Taney	6,155	69
Missouri	71	Missouri	Linn	3,979	60.33
Missouri	827	Missouri	Dent	4,512	69.67
Missouri	87	Missouri	Barry	3,300	68.67
Missouri	95	Missouri	Livingston	9,000	61.33
Missouri	159	Missouri	Callaway	12,790	75
Missouri	184	Missouri	Jackson, Clay	43,200	N/A
Missouri	190	Missouri	Cole, Callaway	41,153	73.33
Missouri	192	Missouri	Jasper	34,403	50.67
Missouri	194	Missouri	Clay, Platte	76,759	64.33
Missouri	196	Missouri	Jackson	25,000	80.33
Missouri	198	Missouri	Clay	12,000	61.67
Missouri	200	Missouri	Johnson, Jackson, Wyandotte	61,250	70
Missouri	202	Missouri	Dunklin	11,300	80
Missouri	265	Missouri	Saint Louis	149,112	71.67
Missouri	284	Missouri	Christian	20,000	64.67
Missouri	365	Missouri	New Madrid, Scott	17,000	77.67
Missouri	380	Missouri	Greene	22,818	66.67
Missouri	404	Missouri	Lincoln	3,282	40
Missouri	407	Missouri	Franklin	7,936	N/A
Missouri	424	Missouri	Johnson	14,477	84
Missouri	438	Missouri	Saint Charles	44,852	68
Missouri	441	Missouri	Howell	12,000	64
Missouri	63	Missouri	Polk	10,500	61.33

Missouri	68	Missouri	Taney	10,559	70.67
Missouri	824	Missouri	Adair	17,496	N/A
Missouri	858	Missouri	Jackson, Cass	367,300	73
Missouri	114	Missouri	Henry	9,118	68
Missouri	130	Missouri	Stoddard	6,000	N/A
Missouri	132	Missouri	Saint Charles	58,776	70.33
Missouri	133	Missouri	Saint Charles	47,757	61.33
Missouri	156	Missouri	Madison	4,000	50
Missouri	191	Missouri	Newton	15,906	71.33
Missouri	197	Missouri	Clay, Platte	13,940	46.33
Missouri	199	Missouri	Platte, Clay	12,855	89
Missouri	213	Missouri	Barton	4,532	N/A
Missouri	240	Missouri	Webster	8,000	70
Missouri	242	Missouri	Nodaway	12,000	65.5
Missouri	259	Missouri	Barry, Lawrence	9,100	73
Missouri	264	Missouri	Saint Louis, Saint Louis City	306,647	56.67
Missouri	267	Missouri	Saint Louis	115,895	80
Missouri	269	Missouri	Jefferson, Saint Louis	66,738	46.33
Missouri	270	Missouri	Saint Louis, Saint Charles	174,537	55.67
Missouri	279	Missouri	Newton	12,000	62.33
Missouri	293	Missouri	Jefferson, Saint Louis	27,391	55.67
Missouri	294	Missouri	Saint Charles	16,000	N/A
Missouri	306	Missouri	Franklin, Saint Louis	7,001	60.5
Missouri	336	Missouri	Jefferson	12,293	N/A
Missouri	348	Missouri	Phelps	15,000	75.67
Missouri	360	Missouri	Pettis	10,730	74.33
Missouri	381	Missouri	Greene, Christian	151,966	N/A
Missouri	423	Missouri	Johnson	11,883	77
Missouri	64	Missouri	Saint Francois	7,165	64
Missouri	732	Missouri	Platte	7,000	new site
Missouri	78	Missouri	Caldwell, Clinton, Dekalb	9,700	66.67
Missouri	81	Missouri	Cape Girardeau, Scott	33,540	N/A
Missouri	82	Missouri	Carroll	3,784	N/A
Missouri	83	Missouri	Jasper	12,000	76
Montana	562	Montana	Missoula	68,015	33.25
Montana	562	Montana	Missoula	68,015	new site
Montana	1032	Montana	Gallatin	3,000	N/A
Montana	977	Montana	Lewis And Clark	37,125	74
Montana	1176	Montana	Custer	8,800	86.4
Montana	1035	Montana	Gallatin	1,272	N/A

Montana	976	Montana	Lewis And Clark	2,273	57.67
Nebraska	915	Nebraska	Dawes	5,561	N/A
Nebraska	920	Nebraska	Buffalo	33,790	91.6
Nebraska	987	Nebraska	Stanton, Madison	27,000	83.5
Nebraska	988	Nebraska	Lincoln	24,000	97
Nebraska	1312	Nebraska	Keith	4,793	new site
Nebraska	1331	Nebraska	York	8,000	new site
Nebraska	918	Nebraska	Hall	52,000	N/A
Nebraska	922	Nebraska	Lancaster	100,000	93.2
Nebraska	925	Nebraska	Lancaster	200,000	86.2
Nebraska	916	Nebraska	Platte	23,000	93.25
Nebraska	917	Nebraska	Dodge	28,000	92.25
Nebraska	919	Nebraska	Adams	24,692	94.8
Nebraska	921	Nebraska	Douglas	200,000	80.6
Nebraska	923	Nebraska	Douglas, Sarpy	600,000	88.2
Nebraska	924	Nebraska	Scotts Bluff	15,932	82.33
Nebraska	926	Nebraska	Wayne	5,560	86.25
Nevada	700	Nevada	Clark	15,500	N/A
Nevada	777	Nevada	Clark	246,258	28.2
Nevada	663	Nevada	Clark	265,000	14
Nevada	1082	Nevada	Clark	984,000	30.8
Nevada	554	Nevada	Washoe	200,000	41.4
Nevada	703	Nevada	Clark	650,000	13.67
Nevada	148	Nevada	Clark	1,001,800	N/A
New Hampshire	497	New Hampshire	Merrimack	40,000	N/A
New Hampshire	285	New Hampshire	Carroll	25,000	42.2
New Hampshire	402	New Hampshire	Sullivan	6,500	21
New Hampshire	497	New Hampshire	Merrimack	43,000	75
New Jersey	1385	New Jersey	Hudson	145,000	new site
New Jersey	1291	New Jersey	Passaic	54,000	new site
New Jersey	784	New Jersey	Union, Middlesex, Somerset	880,000	59.2
New Jersey	784	New Jersey	Middlesex	880,000	N/A
New Jersey	1322	New Jersey	Union, Essex	1,300,000	new site
New Jersey	788	New Jersey	Passaic, Bergen, Essex, Hudson	1,500,000	45.4
New Mexico	853	New Mexico	Los Alamos	13,179	49.2
New Mexico	1386	New Mexico	Los Alamos	13,000	new site
New Mexico	764	New Mexico	Bernalillo, Sandoval	650,000	33

New York	1022	New York	Schenectady	65,000	N/A
New York	1003	New York	Monroe	550,000	N/A
New York	549	New York	Kings	1,068,012	50
New York	509	New York	New York	588,772	54.4
New York	498	New York	Bronx	684,569	48.6
New York	1010	New York	Monroe	155,096	46.6
New York	1021	New York	Nassau	20,616	71.5
New York	1041	New York	Suffolk	278,775	52.86
New York	1043	New York	Suffolk	3,349	67
New York	1098	New York	Sullivan	4,925	86
New York	1149	New York	Tioga	3,750	59.33
New York	1153	New York	Livingston	15,688	new site
New York	1213	New York	Ontario	17,936	new site
New York	426	New York	Orange	6,729	58.4
New York	430	New York	Jefferson	26,013	N/A
New York	479	New York	Chenango	6,734	82
New York	513	New York	Onondaga	30,613	60.33
New York	529	New York	Orange	8,568	82.25
New York	567	New York	Fulton	23,379	52
New York	689	New York	Tompkins	9,770	77.33
New York	690	New York	Cortland	26,950	50
New York	691	New York	Herkimer	13,924	69.33
New York	718	New York	Putnam	3,656	N/A
New York	719	New York	Nassau	24,041	68.33
New York	739	New York	Orange	42,921	60
New York	742	New York	Albany	80,922	48.33
New York	776	New York	Ulster	26,599	66.67
New York	836	New York	Nassau	611,349	46.67
New York	837	New York	Rockland	53,437	73
New York	838	New York	Rockland	207,430	81.5
New York	974	New York	Yates	5,339	58.67
New York	485	New York	Kings	283,428	63
New York	505	New York	Queens	410,812	71.4
New York	545	New York	Queens	728,123	60
New York	551	New York	Kings	758,007	64.4
New York	553	New York	Kings	192,050	49.2
New York	1009	New York	Niagara	45,000	N/A
New York	1010	New York	Monroe	103,000	N/A
New York	1021	New York	Nassau	32,000	N/A
New York	1041	New York	Suffolk	346,000	N/A
New York	1045	New York	Essex	5,000	N/A
New York	776	New York	Ulster	24,000	N/A
New York	1022	New York	Schenectady	78,444	41.5
New York	1042	New York	Columbia	6,374	61.67
New York	1044	New York	Suffolk	24,147	44.4

New York	1045	New York	Essex	6,264	51.8
New York	1068	New York	Tompkins	56,967	70
New York	1099	New York	Wyoming	3,448	55.67
New York	1112	New York	Albany	109,426	46.67
New York	1150	New York	Suffolk	7,741	new site
New York	123	New York	Steuben	10,605	52.29
New York	1325	New York	Franklin	4,918	new site
New York	1335	New York	Chemung	38,037	new site
New York	430	New York	Jefferson	15,294	N/A
New York	477	New York	Essex	3,076	82.67
New York	483	New York	Delaware	3,581	57.33
New York	515	New York	Madison	4,843	N/A
New York	519	New York	Orange	6,369	65.2
New York	522	New York	Orange	27,434	69
New York	524	New York	Orange	36,227	57.8
New York	526	New York	Orange	41,135	N/A
New York	531	New York	Jefferson	4,077	19.33
New York	532	New York	Onondaga	25,965	49.33
New York	580	New York	Monroe	43,074	52.4
New York	694	New York	Franklin	7,175	41.33
New York	695	New York	Oswego	14,199	62.67
New York	721	New York	Rensselaer	79,699	39
New York	722	New York	Saratoga	152,482	49
New York	723	New York	Seneca	6,961	36.67
New York	740	New York	Oneida	55,215	new site
New York	740	New York	Oneida	33,358	new site
New York	869	New York	Warren	23,462	51
New York	986	New York	Washington	12,260	64.5
New York	487	New York	Queens	848,328	63
New York	500	New York	New York	588,772	32.8
New York	503	New York	Queens	90,474	43
New York	541	New York	Kings	596,326	64.4
New York	550	New York	Richmond	244,918	55.6
New York	552	New York	Richmond	198,128	72.8
New York	1097	New York	Dutchess	35,000	N/A
New York	512	New York	Cayuga	33,000	N/A
New York	1003	New York	Monroe	487,322	51.8
New York	1030	New York	Broome	38,726	48.67
New York	1078	New York	Wayne	8,931	30.33
New York	1097	New York	Dutchess	38,207	70.4

New York	1151	New York	Oneida	27,849	41
New York	1170	New York	Greene	4,896	new site
New York	1242	New York	Schoharie	5,326	new site
New York	1306	New York	Nassau	524,955	new site
New York	1336	New York	Chemung	18,085	new site
New York	512	New York	Cayuga	31,814	59.33
New York	514	New York	Onondaga	16,168	47.67
New York	516	New York	Madison	4,908	N/A
New York	517	New York	Livingston	4,730	N/A
New York	518	New York	Steuben	5,162	56.4
New York	520	New York	Onondaga	39,352	59
New York	521	New York	Onondaga	242,377	62.33
New York	525	New York	Onondaga	50,727	50.67
New York	527	New York	Madison	9,207	58
New York	528	New York	Otsego	19,383	62.33
New York	52	New York	Steuben	5,941	47.2
New York	530	New York	Madison	3,317	N/A
New York	692	New York	Saint Lawrence	10,794	60
New York	693	New York	Ulster	10,577	47.5
New York	717	New York	Montgomery	19,679	43
New York	720	New York	Lewis	3,953	N/A
New York	738	New York	Putnam	4,480	83.33
New York City	549	New York City	Queens	1,156,473	N/A
New York City	505	New York City	Queens	449,906	N/A
New York City	500	New York City	New York	658,595	N/A
New York City	498	New York City	Bronx	755,948	N/A
New York City	485	New York City	Kings	290,607	N/A
New York City	487	New York City	Queens	924,694	N/A
New York City	541	New York City	Kings	682,341	N/A
New York City	545	New York City	Queens	748,737	N/A
New York City	551	New York City	Kings	906,441	N/A
New York City	552	New York City	Richmond	226,166	N/A
New York City	553	New York City	Kings	224,028	N/A
New York City	503	New York City	Queens	120,539	N/A
New York City	509	New York City	Bronx	1,201,485	N/A
New York City	550	New York City	Richmond	258,731	N/A
North Carolina	704	North Carolina	Rowan	31,536	N/A
North Carolina	597	North Carolina	Sampson	9,000	N/A
North Carolina	571	North Carolina	Wayne	4,520	N/A
North Carolina	568	North Carolina	Watauga	38,000	N/A

North Carolina	1223	North Carolina	Rowan	22,940	71.4
North Carolina	1220	North Carolina	Rowan	31,536	45.6
North Carolina	1148	North Carolina	Surry	10,000	83.2
North Carolina	237	North Carolina	Mcdowell	8,459	55.2
North Carolina	345	North Carolina	Northampton, Halifax	14,320	77.6
North Carolina	405	North Carolina	Jackson	13,296	56.6
North Carolina	84	North Carolina	Wake	84,189	72.8
North Carolina	86	North Carolina	Wake	75,886	73.4
North Carolina	93	North Carolina	Mecklenburg	182,501	82
North Carolina	1179	North Carolina	Watauga	26,000	80
North Carolina	421	North Carolina	Pender, Duplin	10,000	73.25
North Carolina	421	North Carolina	Duplin, Pender	10,000	new site
North Carolina	538	North Carolina	Pasquotank	18,000	new site
North Carolina	539	North Carolina	Vance	15,000	79.25
North Carolina	144	North Carolina	Cumberland	151,589	74.2
North Carolina	166	North Carolina	Guilford	135,821	49.8
North Carolina	216	North Carolina	Scotland	15,527	60
North Carolina	271	North Carolina	Buncombe, Henderson	173,000	61
North Carolina	303	North Carolina	Orange, Durham	78,141	73.2
North Carolina	334	North Carolina	Wake	30,655	55.2
North Carolina	369	North Carolina	Orange, Durham	108,105	70.4
North Carolina	450	North Carolina	New Hanover	58,361	53.2
North Carolina	452	North Carolina	Forsyth	178,000	70.6
North Carolina	53	North Carolina	Carteret	3,500	66.4
North Carolina	85	North Carolina	Wake	74,331	71.8
North Carolina	92	North Carolina	Mecklenburg	68,685	63.2
North Carolina	94	North Carolina	Mecklenburg	120,000	67.4
North Carolina	492	North Carolina	Henderson	16,000	64.6
North Carolina	536	North Carolina	Jackson, Swain	12,000	61.6
North Carolina	537	North Carolina	Stanly	20,000	50
North Carolina	569	North Carolina	Lenoir, Greene	20,484	81
North Carolina	575	North Carolina	Mitchell	3,500	46.6
North Carolina	537	North Carolina	Stanly	20,000	N/A
North Carolina	538	North Carolina	Pasquotank	19,000	N/A
North Carolina	705	North Carolina	Rowan	22,940	N/A
North Carolina	111	North Carolina	Wilson	49,384	70.2
North Carolina	167	North Carolina	Pitt	89,616	65
North Carolina	332	North Carolina	Wake	550,000	59.2
North Carolina	335	North Carolina	Wake	7,776	65.2
North Carolina	451	North Carolina	New Hanover	67,743	66.6

Ohio	127	Ohio	Montgomery	226,729	70
Ohio	129	Ohio	Defiance	23,027	84.25
Ohio	134	Ohio	Montgomery	78,509	N/A
Ohio	214	Ohio	Fairfield	24,303	81.4
Ohio	228	Ohio	Lucas	195,577	76.67
Ohio	235	Ohio	Washington	15,284	80
Ohio	273	Ohio	Hamilton	125,247	78.2
Ohio	309	Ohio	Licking	3,300	79.5
Ohio	315	Ohio	Miami	20,581	72.2
Ohio	322	Ohio	Ottawa	7,000	64.75
Ohio	36	Ohio	Summit	377,378	57
Ohio	374	Ohio	Franklin	654,817	88.5
Ohio	388	Ohio	Jefferson	17,864	84
Ohio	395	Ohio	Hamilton	83,058	74.4
Ohio	398	Ohio	Lucas	372,208	62.67
Ohio	403	Ohio	Montgomery	65,000	44.25
Ohio	422	Ohio	Trumbull	68,874	74.6
Ohio	54	Ohio	Greene	46,160	56
Ohio	74	Ohio	Crawford	12,362	82
Ohio	868	Ohio	Wayne	6,500	N/A
Ohio	112	Ohio	Wayne	27,000	88
Ohio	140	Ohio	Lorain	54,500	87.75
Ohio	157	Ohio	Sandusky	25,000	62.75
Ohio	186	Ohio	Lawrence	10,445	85.33
Ohio	205	Ohio	Hardin	8,500	89.5
Ohio	233	Ohio	Richland	52,000	87.2
Ohio	263	Ohio	Knox	18,000	N/A
Ohio	274	Ohio	Henry	12,246	32.25
Ohio	291	Ohio	Huron	17,000	94
Ohio	301	Ohio	Lucas	44,680	73.5
Ohio	304	Ohio	Butler	22,000	41.75
Ohio	326	Ohio	Scioto	20,366	N/A
Ohio	411	Ohio	Wyandot	6,700	62.33
Ohio	442	Ohio	Montgomery	113,629	71.75
Ohio	79	Ohio	Stark	85,000	95.75
Ohio	859	Ohio	Mercer	4,800	79.2
Ohio	773	Ohio	Brown	4,773	new site
Ohio	101	Ohio	Preble	8,400	28.33
Ohio	102	Ohio	Marion	36,000	60.75
Ohio	108	Ohio	Erie	55,000	91.5

Ohio	121	Ohio	Ashtabula	12,000	62.6
Ohio	124	Ohio	Coshocton	12,000	82
Ohio	131	Ohio	Tuscarawas	13,572	80.5
Ohio	141	Ohio	Belmont	13,169	85.25
Ohio	147	Ohio	Hancock	42,000	71
Ohio	168	Ohio	Darke	13,000	40
Ohio	170	Ohio	Butler	65,000	84.2
Ohio	187	Ohio	Franklin	645,940	74
Ohio	204	Ohio	Portage	29,000	97
Ohio	219	Ohio	Allen	61,000	75
Ohio	221	Ohio	Hamilton	200,666	60.8
Ohio	222	Ohio	Medina	35,000	88.75
Ohio	225	Ohio	Lorain	72,000	75.75
Ohio	241	Ohio	Union	24,677	70.4
Ohio	255	Ohio	Hamilton	566,136	62
Ohio	276	Ohio	Cuyahoga	313,158	89
Ohio	277	Ohio	Cuyahoga	524,154	92.6
Ohio	278	Ohio	Cuyahoga	103,379	95
Ohio	282	Ohio	Licking	45,000	87.5
Ohio	311	Ohio	Wood	21,000	30.67
Ohio	382	Ohio	Clark	88,710	76
Ohio	428	Ohio	Fayette	14,000	71.75
Ohio	43	Ohio	Fulton	6,000	51
Ohio	455	Ohio	Mahoning	65,469	60.4
Ohio	456	Ohio	Muskingum	47,500	72.67
Ohio	46	Ohio	Ashtabula	31,430	93.5
Ohio	48	Ohio	Athens	24,536	77.8
Ohio	67	Ohio	Wood	32,000	67.75
Ohio	73	Ohio	Williams	8,655	66
Ohio	975	Ohio	Greene	4,100	65
Ohio	98	Ohio	Pickaway	13,965	79.8
Oklahoma	767	Oklahoma	Garfield	50,249	N/A
Oklahoma	831	Oklahoma	Beckham	11,500	new site
Oklahoma	1264	Oklahoma	Carter	25,000	56.4
Oklahoma	769	Oklahoma	Comanche	93,000	new site
Oklahoma	831	Oklahoma	Beckham	11,500	69.5
Oklahoma	809	Oklahoma	Murray	5,000	new site
Oregon	797	Oregon	Clackamas	76,600	N/A
Oregon	775	Oregon	Clackamas	103,800	N/A
Oregon	774	Oregon	Clackamas	4,000	N/A

Oregon	1200	Oregon	Multnomah, Washington	654,741	16.5
Oregon	469	Oregon	Jackson	21,105	N/A
Oregon	931	Oregon	Baker	9,860	N/A
Oregon	932	Oregon	Deschutes	92,850	N/A
Oregon	933	Oregon	Clackamas	14,206	32
Oregon	935	Oregon	Polk	16,555	N/A
Oregon	937	Oregon	Lincoln	8,865	65.6
Oregon	939	Oregon	Lincoln	10,400	44.4
Oregon	940	Oregon	Deschutes	32,255	52.4
Oregon	941	Oregon	Marion	26,273	N/A
Oregon	950	Oregon	Josephine	37,725	N/A
Oregon	951	Oregon	Umatilla	18,775	36.6
Oregon	953	Oregon	Klamath	20,840	52.6
Oregon	956	Oregon	Jackson	133,708	37.33
Oregon	965	Oregon	Marion	10,520	N/A
Oregon	967	Oregon	Marion	10,840	N/A
Oregon	970	Oregon	Jefferson	3,200	60
Oregon	971	Oregon	Lane	235,155	80.6
Oregon	1164	Oregon	Washington, Clackamas	25,780	35
Oregon	1200	Oregon	Multnomah, Washington	654,741	new site
Oregon	934	Oregon	Benton	58,856	58.22
Oregon	936	Oregon	Lane	8,925	54.2
Oregon	942	Oregon	Washington	220,000	71.83
Oregon	943	Oregon	Washington	40,000	60.5
Oregon	945	Oregon	Multnomah	662,235	48.8
Oregon	947	Oregon	Lane	10,200	N/A
Oregon	949	Oregon	Washington	40,000	78.83
Oregon	955	Oregon	Yamhill	34,615	63.6
Oregon	959	Oregon	Umatilla	17,500	41.2
Oregon	961	Oregon	Marion	229,000	N/A
Oregon	1164	Oregon	Clackamas, Washington	25,780	new site
Oregon	1201	Oregon	Washington, Multnomah, Clackamas	45,600	38.4
Oregon	929	Oregon	Linn	57,785	N/A
Oregon	930	Oregon	Clatsop	11,326	N/A
Oregon	938	Oregon	Yamhill	24,120	N/A
Oregon	944	Oregon	Washington	9,900	66.4
Oregon	952	Oregon	Hood River	7,800	N/A
Oregon	957	Oregon	Coos	9,975	46.6
Oregon	958	Oregon	Malheur	10,966	N/A
Oregon	963	Oregon	Yamhill	6,100	N/A

Oregon	966	Oregon	Columbia	13,739	N/A
Pennsylvania	726	Pennsylvania	Montgomery	13,000	N/A
Pennsylvania	1161	Pennsylvania	Lehigh	6,598	new site
Pennsylvania	1358	Pennsylvania	Cumberland	25,000	new site
Pennsylvania	1369	Pennsylvania	Westmoreland	25,000	new site
Pennsylvania	1370	Pennsylvania	Lehigh	200,000	37.8
Pennsylvania	1375	Pennsylvania	York	85,000	new site
Pennsylvania	1081	Pennsylvania	Montgomery	13,000	46.2
Pennsylvania	125	Pennsylvania	Butler, Allegheny	41,000	79
Pennsylvania	1366	Pennsylvania	Dauphin	124,000	new site
Pennsylvania	1083	Pennsylvania	Montgomery	10,000	22.4
Pennsylvania	1388	Pennsylvania	Allegheny	22,000	new site
Pennsylvania	707	Pennsylvania	Montgomery	15,500	N/A
Pennsylvania	1357	Pennsylvania	Montgomery	30,000	new site
Pennsylvania	1359	Pennsylvania	Erie	200,000	new site
Pennsylvania	1367	Pennsylvania	Franklin	67,000	new site
Pennsylvania	1375	Pennsylvania	York	85,000	new site
Pennsylvania	1376	Pennsylvania	Westmoreland	4,600	new site
Rhode Island	474	Rhode Island	Providence	80,000	N/A
Rhode Island	835	Rhode Island	Bristol	11,000	29.5
Rhode Island	835	Rhode Island	Bristol	11,000	new site
Rhode Island	565	Rhode Island	Kent	6,000	35
Rhode Island	464	Rhode Island	Providence	240,000	45.2
Rhode Island	1224	Rhode Island	Kent	33,000	45.8
Rhode Island	677	Rhode Island	Bristol	21,100	48.2
Rhode Island	565	Rhode Island	Kent	6,000	N/A
Rhode Island	1134	Rhode Island	Kent	60,224	42
Rhode Island	548	Rhode Island	Providence	120,000	33
Rhode Island	76	Rhode Island	Providence	10,000	69.4
Rhode Island	412	Rhode Island	Providence	20,000	N/A
South Carolina	1159	South Carolina	Florence, Darlington	45,000	new site
South Carolina	1159	South Carolina	Florence, Darlington	45,000	54
South Carolina	884	South Carolina	Greenville	400,000	66.8
South Carolina	906	South Carolina	Lexington	40,000	79.25
South Carolina	908	South Carolina	Richland	60,000	69
South Carolina	1265	South Carolina	Georgetown	12,000	78
South Carolina	599	South Carolina	Greenwood	12,000	79.2
South Carolina	600	South Carolina	Greenwood	48,000	N/A
South Carolina	877	South Carolina	Kershaw	8,825	80.8
South Carolina	878	South Carolina	Charleston	64,170	70.5

South Carolina	883	South Carolina	York	88,000	79.4
South Carolina	885	South Carolina	Georgetown	30,000	73.6
South Carolina	909	South Carolina	Horry	195,000	77.8
South Carolina	600	South Carolina	Greenwood	48,000	78.6
South Carolina	491	South Carolina	Darlington	8,100	N/A
South Dakota	672	South Dakota	Pennington	80,000	45.6
South Dakota	493	South Dakota	Beadle	13,289	47.8
South Dakota	1165	South Dakota	Yankton	15,500	new site
South Dakota	1165	South Dakota	Yankton	15,500	53.4
South Dakota	1266	South Dakota	Lincoln, Minnehaha	215,000	41.8
South Dakota	493	South Dakota	Beadle	13,289	new site
Tennessee	1329	Tennessee	Shelby	300,000	new site
Tennessee	1282	Tennessee	Rutherford, Williamson, Davidson	600,000	28
Tennessee	1283	Tennessee	Davidson	600,000	24
Tennessee	1389	Tennessee	Sumner	45,000	new site
Tennessee	1323	Tennessee	Shelby	300,000	new site
Tennessee	496	Tennessee	Bradley	52,000	79.8
Texas	566	Texas	El Paso	142,648	N/A
Texas	865	Texas	Webb	120,000	68.5
Texas	847	Texas	Bexar	230,000	16.5
Texas	667	Texas	Galveston	26,400	53.4
Texas	1231	Texas	Dallas	500,000	new site
Texas	1131	Texas	Kaufman	138,700	new site
Texas	113	Houston	Harris	3,825	N/A
Texas	201	Houston	Harris	124,000	N/A
Texas	207	Houston	Harris, Montgomery	52,055	N/A
Texas	250	Houston	Harris	20,161	N/A
Texas	289	Houston	Harris	19,867	N/A
Texas	350	Houston	Harris	20,608	N/A
Texas	366	Houston	Harris	109,414	N/A
Texas	367	Houston	Harris	109,414	N/A
Texas	406	Houston	Harris	59,188	N/A
Texas	434	Houston	Harris, Fort Bend	20,920	N/A
Texas	443	Houston	Harris	3,623	N/A
Texas	446	Houston	Harris	20,758	N/A
Texas	449	Houston	Harris	8,610	N/A
Texas	56	Houston	Harris	70,900	N/A
Texas	1140	Texas	Travis	500,000	47
Texas	1210	Texas	Dallas	900,000	65.8
Texas	1231	Texas	Dallas	500,000	new site

Texas	566	Texas	El Paso	143,000	new site
Texas	593	Texas	Galveston	89,600	33
Texas	673	Texas	El Paso	436,000	53.4
Texas	811	Texas	Bexar	415,000	34
Texas	848	Texas	Bexar	630,000	58
Texas	867	Texas	Webb	140,000	56.5
Texas	481	Texas	Dallas	200,000	N/A
Texas	593	Texas	Galveston	80,000	N/A
Texas	667	Texas	Galveston	40,000	N/A
Texas	135	Houston	Harris	16,030	N/A
Texas	149	Houston	Harris	4,170	N/A
Texas	160	Houston	Harris	40,689	N/A
Texas	183	Houston	Harris	16,804	N/A
Texas	290	Houston	Harris	95,600	N/A
Texas	307	Houston	Harris	5,497	N/A
Texas	35	Houston	Harris	551,150	N/A
Texas	40	Houston	Harris	117,968	N/A
Texas	435	Houston	Harris	33,645	N/A
Texas	439	Houston	Harris	85,129	N/A
Texas	97	Houston	Harris	37,359	N/A
Texas	1131	Texas	Kaufman	138,700	new site
Texas	1141	Texas	Travis	510,000	52.6
Texas	681	Texas	El Paso	142,000	new site
Texas	709	Texas	El Paso	170,000	new site
Texas	805	Texas	Dallas	900,000	70.6
Texas	863	Texas	Webb	30,000	51.75
Texas	665	Texas	Dallas	179,800	N/A
Texas	780	Texas	Hardin	29,500	N/A
Texas	165	Houston	Harris, Fort Bend	28,742	N/A
Texas	176	Houston	Harris	9,375	N/A
Texas	272	Houston	Harris	4,010	N/A
Texas	287	Houston	Harris	12,892	N/A
Texas	288	Houston	Harris	33,102	N/A
Texas	373	Houston	Harris	32,485	N/A
Texas	375	Houston	Harris	293,227	N/A
Texas	409	Houston	Harris	97,918	N/A
Utah	12	Utah	Cache	94,005	76.4
Utah	17	Utah	Utah	112,901	72.4
Utah	20	Utah	Utah	21,231	56.6
Utah	21	Utah	Duchesne	6,790	64.4

Utah	23	Utah	Summit	6,390	62.2
Utah	25	Utah	Davis	21,872	64
Utah	27	Utah	Washington	92,047	65.6
Utah	34	Utah	Box Elder	12,451	74.8
Utah	3	Utah	Box Elder	21,443	63.4
Utah	6	Utah	Davis	64,533	56.8
Utah	1270	Utah	Tooele	13,000	new site
Utah	10	Utah	Cache	9,095	69.6
Utah	11	Utah	Salt Lake	89,507	69
Utah	11	Utah	Salt Lake, Utah	94,484	65.2
Utah	15	Utah	Grand, San Juan	9,896	69
Utah	16	Utah	Weber, Davis	228,700	66
Utah	18	Utah	Utah	102,624	71.8
Utah	19	Utah	Carbon	17,312	80
Utah	22	Utah	Summit	25,444	71.8
Utah	24	Utah	Davis	84,981	62
Utah	26	Utah	Utah	53,313	66
Utah	28	Utah	Salt Lake	209,645	69.6
Utah	2	Utah	Uintah	29,513	67.6
Utah	33	Utah	Utah	253,112	78.4
Utah	5	Utah	Iron	32,451	72.4
Utah	9	Utah	Davis, Weber	208,850	62.6
Utah	1077	Utah	Wasatch	19,936	87
Utah	1	Utah	Washington	24,970	71.25
Utah	29	Utah	Utah	12,510	58
Utah	30	Utah	Salt Lake	254,971	71.4
Utah	31	Utah	Utah	35,840	69.8
Utah	32	Utah	Tooele	36,244	77.4
Utah	7	Utah	Salt Lake	515,494	68
Vermont	796	Vermont	Windsor	9,000	N/A
Vermont	770	Vermont	Franklin	7,500	35
Vermont	1157	Vermont	Bennington	15,000	70.2
Vermont	1080	Vermont	Chittenden	31,000	38.4
Vermont	1080	Vermont	Chittenden	31,000	N/A
Vermont	701	Vermont	Chittenden	8,500	new site
Virginia	892	Virginia	Chesterfield, Petersburg City, Dinwiddie, Colonial Heights City, Prince George	65,000	75.2
Virginia	540	Virginia	Henry	16,000	new site
Virginia	1338	Virginia	Mecklenburg	5,300	new site
Virginia	1275	Virginia	Newport News City, Hampton City	141,543	58.25
Virginia	1259	Virginia	Alleghany	5,000	new site
Virginia	1218	Virginia	Petersburg City	30,000	55.2
Virginia	1197	Virginia	York	118,497	46.5
Virginia	1195	Virginia	Norfolk City	78,322	67.75

Virginia	1113	Virginia	Arlington	207,627	new site
Virginia	1113	Virginia	Arlington	207,627	44.33
Virginia	1198	Virginia	Wise	9,340	50.2
Virginia	1211	Virginia	Gloucester, York, Mathews	99,112	63.25
Virginia	1272	Virginia	Franklin	5,000	70
Virginia	467	Virginia	Hanover	10,000	N/A
Virginia	714	Virginia	Orange	4,721	N/A
Virginia	892	Virginia	Dinwiddie	71,416	new site
Virginia	1160	Virginia	Hanover	20,000	74.4
Virginia	1202	Virginia	Frederick	51,470	73.67
Virginia	1259	Virginia	Clifton Forge City	5,000	new site
Virginia	469	Virginia	Hanover	12,000	N/A
Washington	708	Washington	Snohomish	3,700	N/A
Washington	664	Washington	Snohomish	10,500	N/A
Washington	502	Washington	Clark	6,875	N/A
Washington	804	Washington	Clark	16,950	new site
Washington	804	Washington	Clark	16,950	new site
Washington	676	Washington	King, Snohomish	288,000	24
Washington	555	Washington	Snohomish	20,000	42.5
Washington	510	Washington	Clark	81,140	new site
Washington	1142	Washington	Snohomish, King	789,000	14
Washington	1084	Washington	Clark	120,000	56
Washington	754	Washington	Benton	59,609	84.33
Washington	755	Washington	Benton	15,000	N/A
Washington	758	Washington	Benton	83,000	94.14
Washington	1139	Washington	King, Pierce	896,000	24
Washington	499	Washington	Clark	162,100	35.6
Washington	510	Washington	Clark	81,140	38.4
Washington	679	Washington	Snohomish	7,125	12.5
Washington	768	Washington	Snohomish	173,800	15.4
Washington	676	Washington	King	288,000	N/A
Washington	1076	Washington	Chelan	35,550	N/A
Washington	1143	Washington	Pierce	43,000	new site
Washington	760	Washington	Spokane	120,000	N/A
Washington	555	Washington	Snohomish	20,000	new site
Washington	661	Washington	Snohomish	37,650	26.6
Washington	499	Washington	Clark	120,000	N/A
Washington	504	Washington	Clark	120,000	N/A
Washington	725	Washington	Clark	25,457	N/A

Washington	99	Washington	Clark	25,457	new site
Washington	753	Washington	Franklin	73,000	N/A
Washington	759	Washington	Spokane	225,000	N/A
West Virginia	1248	West Virginia	Randolph	13,156	N/A
West Virginia	1250	West Virginia	Boone	4,555	N/A
West Virginia	1251	West Virginia	Lewis	10,364	new site
West Virginia	1332	West Virginia	Putnam	28,759	N/A
West Virginia	387	West Virginia	Monongalia	48,328	N/A
West Virginia	459	West Virginia	Kanawha	50,000	N/A
West Virginia	463	West Virginia	Marshall	12,000	N/A
West Virginia	465	West Virginia	Wood	48,050	N/A
West Virginia	466	West Virginia	Mercer	36,000	N/A
West Virginia	687	West Virginia	Harrison	26,498	N/A
West Virginia	735	West Virginia	Taylor	6,071	N/A
West Virginia	206	West Virginia	Mineral	8,168	N/A
West Virginia	445	West Virginia	Ohio	50,000	N/A
West Virginia	601	West Virginia	Wayne, Cabell	56,000	N/A
West Virginia	912	West Virginia	Brooke	6,468	N/A
West Virginia	789	West Virginia	Raleigh	88,900	new site
West Virginia	789	West Virginia	Raleigh	88,900	new site
West Virginia	680	West Virginia	Harrison	80,000	N/A
West Virginia	712	West Virginia	Raleigh	25,000	N/A
West Virginia	460	West Virginia	Jefferson	17,000	N/A
Wisconsin	115	Wisconsin	Waupaca	14,000	66.6
Wisconsin	120	Wisconsin	Columbia	6,900	35
Wisconsin	153	Wisconsin	Waukesha	51,000	47.4
Wisconsin	172	Wisconsin	Washington, Dodge	17,320	72
Wisconsin	223	Wisconsin	Columbia	3,100	73
Wisconsin	297	Wisconsin	Jefferson, Waukesha	22,300	43.6
Wisconsin	331	Wisconsin	Racine	139,000	27.4
Wisconsin	340	Wisconsin	Taylor	7,600	N/A
Wisconsin	389	Wisconsin	Portage	27,000	74.2
Wisconsin	392	Wisconsin	Douglas	28,000	66.4
Wisconsin	1277	Wisconsin	Dane	360,000	52.5
Wisconsin	473	Wisconsin	Wood	19,684	N/A
Wisconsin	128	Wisconsin	Brown	43,000	44.2
Wisconsin	164	Wisconsin	Brown, Kewaunee	189,000	37.2
Wisconsin	203	Wisconsin	Kenosha	122,000	61.8
Wisconsin	209	Wisconsin	La Crosse	85,000	65.6
Wisconsin	243	Wisconsin	Juneau	4,400	71.67

Wisconsin	246	Wisconsin	Dunn	5,000	70.67
Wisconsin	248	Wisconsin	Lincoln	9,700	48
Wisconsin	256	Wisconsin	Ozaukee, Milwaukee	470,007	52.8
Wisconsin	257	Wisconsin	Waukesha, Milwaukee, Racine, Washington, Ozaukee	615,934	37.8
Wisconsin	260	Wisconsin	Green	11,000	58.6
Wisconsin	302	Wisconsin	Winnebago	78,300	61.8
Wisconsin	320	Wisconsin	Sheboygan	9,150	69
Wisconsin	325	Wisconsin	Columbia	11,000	59.2
Wisconsin	41	Wisconsin	Outagamie, Winnebago, Calumet	72,810	55.2
Wisconsin	433	Wisconsin	Marathon	42,350	63
Wisconsin	447	Wisconsin	Jefferson, Walworth	14,500	N/A
Wisconsin	136	Wisconsin	Chippewa, Eau Claire	73,000	73.4
Wisconsin	182	Wisconsin	Saint Croix	14,000	56.4
Wisconsin	231	Wisconsin	Dane	345,000	60
Wisconsin	232	Wisconsin	Manitowoc	34,500	64.5
Wisconsin	236	Wisconsin	Marinette	11,000	70.6
Wisconsin	239	Wisconsin	Marathon, Wood	19,300	66.8
Wisconsin	313	Wisconsin	Marinette	3,500	62.67
Wisconsin	318	Wisconsin	Grant	11,000	76.6
Wisconsin	344	Wisconsin	Saint Croix, Pierce	15,900	71.33
Wisconsin	364	Wisconsin	Sheboygan	75,000	72
Wisconsin	391	Wisconsin	Dane	33,000	74.4
Wisconsin	420	Wisconsin	Vernon	4,400	64.8
Wisconsin	431	Wisconsin	Waukesha	72,000	N/A
Wisconsin	44	Wisconsin	Ashland	8,200	68.33
Wisconsin	60	Wisconsin	Jackson	5,000	61.8
Wisconsin	696	Wisconsin	Jefferson, Dodge	23,660	72.4

Terms to Know

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

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

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

About the Data

[†]Data will update Monday through Friday as soon as they are reviewed and verified, oftentimes before 8 pm ET. Updates will occur the following day when reporting coincides with a federal holiday. Note: Daily updates (Mon-Fri) might be delayed due to delays in reporting.

Percent of sites in each percent change category over time

- At any point in time, this chart shows what percent of sites reported decreased levels of virus in the previous 15 days, what percent reported increased levels, and what percent stayed the same.
- Viewed over time, the chart shows how this distribution changed.
- For each date, the number of sites in each percent change category is counted and divided by the total number of sampling sites with current data. This information is provided on a stacked area chart to show the change in the percent of sites in each percent change category since January 1, 2021.
- To simplify the chart, the "-9% to 0%" and "1% to 9%" categories were combined into "-9% to 9%," and the "100% to 999%" and "1000% or more" categories were combined into "100% or more." Because the number of sampling sites has changed since January 1, 2021, the total number of sites with current data is shown as a black line on the chart.
- Not all sites have data since January 1, 2021, and not all sites have data for all dates shown on the chart.
- The percent of sites in each percent change category for each date may not add up to 100% due to rounding.

Current virus levels in wastewater by site

- This metric shows whether SARS-CoV-2 levels at a site are currently higher or lower than past levels at the same site. It is calculated by first ordering the SARS-CoV-2 levels in wastewater for all samples collected since December 1, 2021 from the lowest to highest level. The ordered levels are then grouped into five categories (0-19%, 20-39%, 40-59%, 60-79%, and 80-100%) based on how low or high their levels are compared to previous levels. The levels in the 0-19% group represent the lowest levels seen at that sampling site and those in the 80-100% group represent the highest.
- Using December 1, 2021 as a starting date for all sites makes data more comparable between sites. Sites that began reporting wastewater data after December 1, 2021 are not comparable to sites that have been reporting data since December 1, 2021 or earlier because the data history for these new sites is not long enough to reflect the same surges as the other sites.
- The "New site" category means a site just started collecting wastewater samples and has reported fewer than 10 samples, which is not enough samples to meaningfully compare levels at the site over time.

Percent change in the last 15 days

- This metric shows how much normalized SARS-CoV-2 viral levels in wastewater at each site increased or decreased during the current 15-day time period. This metric does not show overall levels of SARS-CoV-2 in wastewater. Percent change compares past data to current data to show changing trends. A large percent increase does not necessarily mean SARS-CoV-2 viral levels in wastewater are high. For instance, a change from 1 unit to 2 units would be a percent change of 100%. A change from 500,000 units to 1 million units is also a percent change of 100%.
- Percent change is calculated as the modeled change over 15 days, based on linear regression of log-transformed SARS-CoV-2 levels. A site must report at least 2 samples over the 15-day period to calculate percent change. Sites with "No recent data" (colored gray on the map) reported fewer than 2 samples for the current 15-day period.

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

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

SARS-CoV-2 concentrations in wastewater over time

- When a site is selected, a smoothed, spline fit SARS-CoV-2 concentration line is shown for the last 4 months, as data are available. The smoothed SARS-CoV-2 concentration line shows how SARS-CoV-2 concentrations in wastewater at a sampling site have changed over the last 4 months.
- At least 4 samples are required to produce the smoothed SARS-CoV-2 concentration line. If a major change in laboratory methods is reported, only data since the new laboratory method was reported are shown. Sites labeled as 'New sites' in the current virus levels in wastewater metric should be viewed with caution since they have only a few samples to generate their trends lines.

Category change in the last 7 days

- This metric shows the change in the number of sites (represented as a percent) that are in a specific metric category (for example, the 15-day percent change category of 1000% or more) compared to the previous 7 days. In other words, it shows how many sites have been added or removed from the metric category in the past week. It is calculated by subtracting the current number of sites in each metric category from the number of sites in the same category 7 days earlier and dividing by the number of sites in the same category 7 days earlier.
- *If a metric category had no sites in it 7 days earlier, the category change in the last 7 days is listed as "N/A*" since you cannot divide by 0.

County-level data

- Data are presented by sewershed (the geographic area contributing wastewater to a sampling location). Sampling locations may be at wastewater treatment plants or upstream in the sewage network. Sewersheds may cross county or state boundaries. This means multiple sewersheds may serve a single county, and a single sewershed may serve multiple counties. Sewersheds are referred to as "sites" on the map.

Sewershed locations

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

Data subject to change

- Wastewater disease surveillance data presented are the best available data and are subject to change. These data may be incomplete for the most recent 15-day period due to processing and reporting delays. All data are provisional.

May 2022 Coverage Limitations

- Beginning April 15, 2022, approximately 150 wastewater sites in 29 states began transitioning to a new wastewater testing provider. During this transition, these sites will not have recent data displayed and will be colored gray on the map. It will take several weeks for enough data to be collected to calculate the metrics displayed on this page. Results for these sites are expected to be available again between mid-May and June 2022.

Data not shown

- Data from sewersheds that serve fewer than 3,000 people.
- Data from sewersheds where population estimates are missing.
- Data from facility or institution-specific sampling locations.
- Wastewater treatment plant names and the names of upstream sampling sites are made anonymous using a consistent, arbitrary number.
- Approximately 20% of 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: NWSS Public SARS-CoV-2 Wastewater Metric Data and NWSS Public SARS-CoV-2 Concentration in Wastewater Data
- The data dictionary for these data (Public Analytics Data Dictionary) is also available.
- To request detailed wastewater data, including a full-time history of raw concentrations, email nwss@cdc.gov with the subject line 'NWSS public data request.' You will be required to sign a data use agreement.

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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