

# COVID Data Tracker

Maps, charts, and data provided by CDC, updates Mondays and Fridays by 8 p.m. ET

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Testing has resumed for commercial contract wastewater sites (about 350 sites) that have had a temporary delay since September 15, 2023. Site-level data will be available two weeks after a site resumes testing.

## United States

At a Glance

Trend in %  
Test  
Positivity **-0.4% in most recent week**

Trend in %  
Emergency  
Department  
Visits **-17.9% in most recent week**

Trend in  
Hospital  
Admissions **-14.4% in most recent week**  
**Total Hospitalizations 6,929,940**

Trend in % **-10% in most recent week**  
COVID-19  
Deaths  
**Total Deaths 1,189,603**

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Trends

Maps

Hospitalizations

Deaths

Emergency Department Visits

Vaccination Distribution & Coverage

Vaccine Effectiveness

Variants & Genomic Surveillance

Traveler-Based Genomic Surveillance

**Wastewater Surveillance**

## Wastewater Surveillance

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Post-COVID Conditions

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Health Equity

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Pediatric

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Seroprevalence

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Other COVID-19 Data

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# 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 and on the [NWSS page](#). 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 on this page.
- To see a map of which SARS-CoV-2 variant is the most dominant at each wastewater sampling site, see [CDC COVID Data Tracker: Summary of Variant Surveillance](#).
- To see state and territory trends in wastewater COVID-19, see [COVID-19 Wastewater Data – State & Territory Trend](#).
- To see a map of COVID-19 current wastewater viral activity levels, see [COVID-19 Wastewater Data – Current Levels](#).

[View information about the data and download the data.](#)

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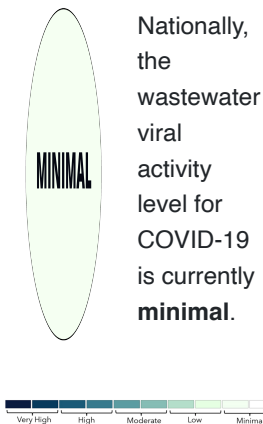
Maps, charts, and data provided by CDC, updates Friday by 8pm ET<sup>†</sup>. This represents all wastewater data submitted directly to CDC's NWSS DCIPHER platform, with the exceptions described in the [About the Data section](#) below. Each dot on the map represents a site. A site can represent all 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.

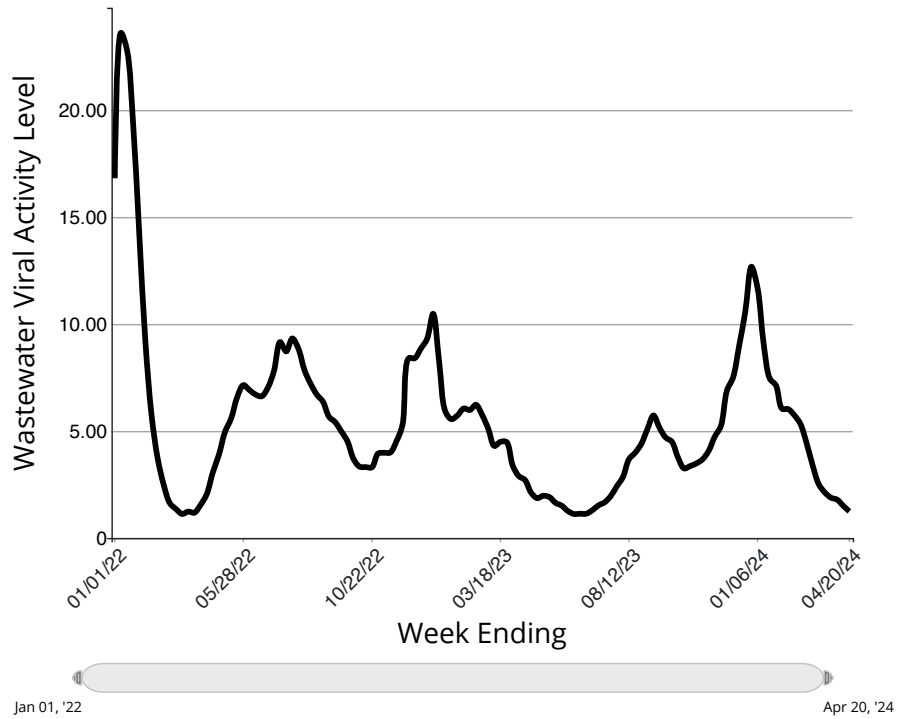
[View Footnotes and Download Data](#)

## Wastewater COVID-19 National Trend

This chart shows national trends of SARS-COV-2 viral activity levels in wastewater.



### COVID-19 Wastewater Viral Activity Level Over Time, United States



# Wastewater Metric Map

State or territory:

County:

[Reset Selections](#)

Time Period: Apr 08, 2024 – Apr 22, 2024

 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

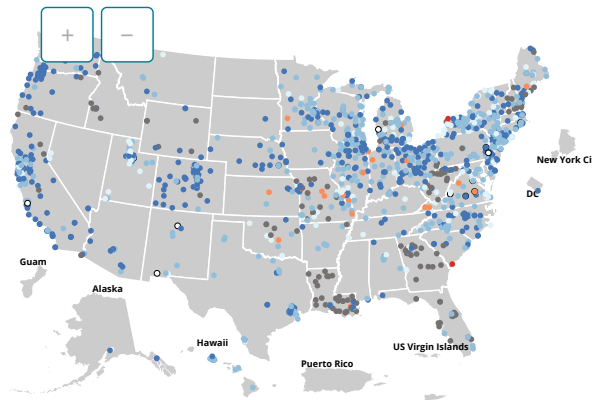
**Show:**

- 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	Num. sites	% sites	Category change in last 7 days
New Site	14	1	8%
0% to 19%	550	43	11%
20% to 39%	543	42	-12%
40% to 59%	146	11	-28%
60% to 79%	29	2	-28%
80% to	2	0	0%

100%

Total sites with current data: 1284

Total number of wastewater sampling sites: 1440

[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

Download Map

### 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, April 29, 2024 2:18 PM ET. Posted: Monday, April 29, 2024 3:44 PM ET

Download Data

Jurisdiction	Sewershed ID	Reporting Jurisdiction	County	Population Served	Current Virus Levels (in %)
Michigan	1089	Michigan	Chippewa	6,546	32
Michigan	1036	Michigan	Allegan	5,500	6
Maine	2002	Maine	York	15,000	10.25
Maine	1989	Maine	Cumberland	15,000	19
Massachusetts	2471	Massachusetts	Suffolk	4,243	21.5
Louisiana	2203	Louisiana	Saint Tammany	10,000	N/A
Louisiana	2100	Louisiana	Acadia	14,557	N/A
Louisiana	1967	Louisiana	Jefferson	163,451	N/A
Louisiana	1961	Louisiana	Calcasieu	36,720	N/A
Louisiana	1857	Louisiana	Terrebonne	50,000	N/A
Louisiana	1823	Louisiana	Jefferson	333,342	N/A
Kentucky	2653	Kentucky	Pulaski	7,500	36
Kansas	2467	Kansas	Johnson	150,442	5.4
Indiana	765	Indiana	Monroe	28,350	22
Indiana	2388	Indiana	Howard	45,000	34.8
Indiana	2387	Indiana	Allen	315,000	17.6
Indiana	2372	Indiana	Kosciusko	21,600	3
Indiana	2340	Indiana	Lake	28,000	75.2
Indiana	2336	Indiana	Delaware	67,000	37

Indiana	1456	Indiana	Clark	21,000	12.5
Illinois	984	Illinois	Du Page	18,800	29.4
Illinois	983	Illinois	Mchenry	15,947	27.8
Illinois	675	Chicago	Cook	467,536	36.2
Illinois	675	Chicago	Cook	77,799	28.8
Illinois	674	Chicago	Cook	54,362	14.4
Illinois	652	Illinois	Shelby	5,329	23.8
Illinois	650	Illinois	Adams	50,695	30.4
Illinois	649	Illinois	Bureau	7,555	7.6
Illinois	639	Illinois	Cook	1,127,736	10.57
Illinois	637	Illinois	Cook	13,098	24.57
Illinois	635	Chicago	Cook	23,475	8.8
Illinois	618	Illinois	Mchenry	4,288	14
Michigan	1093	Michigan	Mackinac	3,460	21.67
Michigan	1096	Michigan	Muskegon	5,000	23.5
Michigan	1096	Michigan	Muskegon	28,000	24
Michigan	1105	Michigan	Menominee	3,842	53.33
Michigan	1125	Michigan	Marquette	3,500	5.5
Michigan	1214	Michigan	Kent	40,000	19
Michigan	1239	Michigan	Isabella	7,615	N/A
Michigan	1597	Michigan	Mecosta	21,000	N/A
Michigan	1627	Michigan	Gogebic	6,500	43
Michigan	1729	Michigan	Wayne	3,500	45
Michigan	1729	Michigan	Wayne	23,500	22.67
Michigan	1952	Michigan	Baraga	8,320	23
Michigan	2046	Michigan	Eaton	32,000	48.4
Michigan	888	Michigan	Calhoun	70,000	0
Michigan	889	Michigan	Ottawa	11,057	0
Michigan	891	Michigan	Kalamazoo	9,709	1
Michigan	891	Michigan	Kalamazoo	3,416	0
Michigan	891	Michigan	Kalamazoo	11,246	14.2
Michigan	891	Michigan	Kalamazoo	31,189	0
Michigan	891	Michigan	Kalamazoo	194,170	7.8
Michigan	897	Michigan	Oakland, Macomb	1,482,000	50.4
Minnesota	1108	Minnesota	Scott, Hennepin, Dakota	254,932	27.8
Minnesota	2228	Minnesota	Beltrami	16,363	27.5
Minnesota	2236	Minnesota	Dakota	153,791	21.4
Minnesota	2244	Minnesota	Morrison	9,119	44.6
Minnesota	2250	Minnesota	Chisago	11,442	30.4
Minnesota	2251	Minnesota	Rice, Dakota	22,126	19
Minnesota	2254	Minnesota	Stearns, Sherburne, Benton	71,945	25.4
Minnesota	2255	Minnesota	Washington	27,857	16.4
Missouri	114	Missouri	Henry	9,118	20
Missouri	133	Missouri	Saint Charles	47,758	N/A
Missouri	156	Missouri	Madison	4,000	38.5

Missouri	199	Missouri	Platte, Clay	12,855	64
Missouri	240	Missouri	Webster	8,000	43.67
Missouri	259	Missouri	Barry, Lawrence	9,100	N/A
Missouri	264	Missouri	Saint Louis, Saint Louis City	306,647	47.5
Missouri	267	Missouri	Saint Louis	115,895	56.67
Missouri	269	Missouri	Jefferson, Saint Louis	66,738	31.67
Missouri	279	Missouri	Newton	12,000	42
Missouri	306	Missouri	Franklin, Saint Louis	7,001	N/A
Missouri	381	Missouri	Greene, Christian	151,966	N/A
Missouri	423	Missouri	Johnson	11,883	70
Missouri	64	Missouri	Saint Francois	7,165	10
Missouri	81	Missouri	Cape Girardeau, Scott	33,540	38.67
Missouri	82	Missouri	Carroll	3,784	19
Montana	1310	Montana	Gallatin	50,000	13.67
Montana	2734	Montana	Hill	10,000	44.33
Montana	2735	Montana	Lewis And Clark	2,273	31.67
North Carolina	167	North Carolina	Pitt	89,616	7.8
North Carolina	2014	North Carolina	Gaston	28,940	29.8
North Carolina	2016	North Carolina	Catawba	24,841	36.6
North Carolina	2018	North Carolina	Gaston	68,700	42.6
North Carolina	332	North Carolina	Wake	550,000	10.8
North Carolina	335	North Carolina	Wake	7,776	24.2
North Carolina	451	North Carolina	New Hanover	67,743	18.6
Nebraska	916	Nebraska	Platte	23,000	5.2
Nebraska	917	Nebraska	Dodge	28,000	9.2
Nebraska	919	Nebraska	Adams	24,692	13.8
Nebraska	921	Nebraska	Douglas	200,000	4
Nebraska	923	Nebraska	Douglas, Sarpy	600,000	15
Nebraska	924	Nebraska	Scotts Bluff	15,932	8.2
New York	512	New York	Cayuga	31,814	42.8
New York	2285	New York	Chautauqua	9,379	53.33
New York	2198	New York	Madison	3,317	30.67
New York	2193	New York	Dutchess	21,516	41.33
New York	2192	New York	Oswego	8,849	53.8
New York	2191	New York	Orange	42,921	19.8
New York	2175	New York	Tompkins	9,770	8.33
New York	2174	New York	Onondaga	16,168	11
New York	2173	New York	Albany	80,922	13
New York	2172	New York	Albany	109,426	7.33
New York	2004	New York	Oswego	12,117	31.33
New York	1939	New York	Suffolk	28,183	57.67
New York	1938	New York	Suffolk	6,280	45.33
New York	1936	New York	Clinton	5,532	43.67
New York	1489	New York	Westchester	523,765	10.2

New York	1483	New York	Westchester	26,651	32
New York	1401	New York	Rockland	36,527	30.8
New York	1400	New York	Broome	52,501	38.5
New York	1151	New York	Oneida	27,849	32.6
New York	1097	New York	Dutchess	38,207	25.2
New York	1012	New York	Erie	83,961	31.67
New York	1011	New York	Cattaraugus	17,760	0
New York	1006	New York	Chautauqua	32,501	0
New York	1000	New York	Erie	17,983	54.33
Nevada	554	Nevada	Washoe	300,000	59.87
New Jersey	788	New Jersey	Bergen, Passaic, Essex, Hudson	1,500,000	26
New Jersey	2378	New Jersey	Sussex	7,751	9
New Hampshire	2091	New Hampshire	Hillsborough	26,632	N/A
New Hampshire	2086	New Hampshire	Strafford	14,638	N/A
New Hampshire	2084	New Hampshire	Coos	10,000	N/A
Illinois	604	Illinois	Cass	5,446	29
Illinois	2379	Illinois	Mclean	44,238	21
Illinois	1944	Illinois	Sangamon	50,000	14.4
Illinois	1849	Illinois	Mchenry	10,240	15.4
Illinois	1848	Illinois	Du Page	83,772	9.4
Illinois	1609	Illinois	Du Page	45,000	36.6
Illinois	1586	Illinois	Mchenry	15,360	7.6
Illinois	1326	Illinois	Saint Clair	85,593	16
Illinois	1316	Illinois	Will	50,458	8
Illinois	1247	Illinois	Lake	80,000	23.6
Illinois	1100	Illinois	Du Page	40,438	14.75
Idaho	1915	Idaho	Nez Perce	35,000	N/A
Georgia	2709	Georgia	Douglas	180,000	N/A
Georgia	2699	Georgia	Gwinnett	650,000	N/A
Georgia	2696	Georgia	Dougherty	50,000	N/A
Florida	671	Florida	Orange	463,672	N/A
Florida	670	Florida	Orange	59,587	N/A
Florida	511	Florida	Pinellas	103,000	N/A
Florida	1551	Florida	Palm Beach	300,000	N/A
Florida	1502	Florida	Alachua	100,000	N/A
Delaware	1184	Delaware	Kent	130,000	18.4
Connecticut	771	Connecticut	Fairfield	140,000	10.75
Colorado	657	Colorado	Summit	28,571	17.8
Colorado	576	Colorado	Routt	43,741	7
Colorado	556	Colorado	Morgan	12,000	3.5
Colorado	47	Colorado	Pitkin	5,500	10.25
Colorado	396	Colorado	San Miguel	15,000	7.8
Colorado	329	Colorado	Pueblo	96,515	N/A
Colorado	252	Colorado	Denver	709,904	6.33
Colorado	227	Colorado	Larimer	66,429	10.5



Colorado	226	Colorado	Boulder	17,601	7
Colorado	2103	Colorado	Montezuma	11,214	8
Colorado	1818	Colorado	Boulder	31,429	34
Colorado	1748	Colorado	Delta	6,857	11
Colorado	1451	Colorado	Chaffee	19,286	6.6
Colorado	142	Colorado	Larimer	5,818	N/A
California	363	California	San Francisco, San Mateo	750,000	12.43
California	363	California	San Francisco, San Mateo	66,446	17.57
California	363	California	San Francisco	9,923	8.86
California	299	California	Orange	1,800,000	9
California	2397	California	Shasta	60,000	10.29
California	2370	California	San Luis Obispo	47,545	8
California	2361	California	Humboldt	45,000	12.14
California	2063	California	San Joaquin	67,021	2.5
California	2059	California	San Joaquin	83,498	9
California	1188	California	Ventura	250,000	11.2
Arizona	715	Arizona	Pima	397,407	6
Arizona	501	Arizona	La Paz	3,500	16.5
Virginia	2695	Virginia	Alleghany	15,000	new site
Virginia	2483	Virginia	Petersburg City	33,458	10.75
Texas	2682	Texas	Andrews	13,487	23.4
Texas	1141	Texas	Travis	529,541	6.67
South Dakota	2630	South Dakota	Beadle	14,000	8.2
South Carolina	2677	South Carolina	Greenwood	48,000	13.2
Nevada	2592	Nevada	Clark	2,000,000	11
New Mexico	2717	New Mexico	Los Alamos	15,000	new site
New Mexico	2683	New Mexico	Bernalillo	650,000	30
New Mexico	2492	New Mexico	Santa Fe	87,000	12.75
North Carolina	2641	North Carolina	Jackson, Swain	10,000	48
North Carolina	2565	North Carolina	Watauga	26,000	15.2
Maine	2511	Maine	York	16,000	28.4
Maryland	2518	Maryland	Washington	90,000	9.6
Massachusetts	2539	Massachusetts	Middlesex	228,285	6
Kansas	833	Kansas	Shawnee	40,000	6
Hawaii	2679	Hawaii	Maui	58,900	33.6
Hawaii	2674	Hawaii	Honolulu	19,000	34
Hawaii	1205	Hawaii	Maui	46,800	37.4
Florida	2587	Florida	Seminole, Orange	95,000	15.4
Florida	2503	Florida	Escambia	207,000	7.8
Connecticut	2733	Connecticut	Fairfield	72,914	new site
California	834	California	Riverside	91,980	14.4
California	2684	California	Santa Cruz	70,000	22.8
California	2669	California	San Luis Obispo	14,465	17.6
California	2537	California	Santa Cruz, Monterey	60,000	15.6
California	2490	California	Ventura, Los	75,000	23.8

			Angeles		
California	1593	California	San Luis Obispo	6,031	32.6
Arkansas	446	Arkansas	Pulaski	32,043	27.8
Arkansas	2507	Arkansas	Benton	19,000	3
Alaska	2633	Alaska	Anchorage	23,000	40
New York	516	New York	Madison	4,908	32
New York	517	New York	Livingston	4,730	37
New York	518	New York	Steuben	5,162	34.6
New York	520	New York	Onondaga	39,352	20.33
New York	527	New York	Madison	9,207	38.67
New York	52	New York	Steuben	5,941	22
New York	692	New York	Saint Lawrence	10,794	37.6
New York	717	New York	Montgomery	19,679	0
New York	738	New York	Putnam	4,480	1
Ohio	101	Ohio	Preble	8,400	27.67
Ohio	108	Ohio	Erie	55,000	16.4
Ohio	121	Ohio	Ashtabula	12,000	20.8
Ohio	124	Ohio	Coshocton	12,000	10.4
Ohio	131	Ohio	Tuscarawas	13,572	16
Ohio	141	Ohio	Belmont	13,169	23.6
Ohio	147	Ohio	Hancock	42,000	10.6
Ohio	168	Ohio	Darke	13,000	23.8
Ohio	187	Ohio	Franklin	645,940	4.4
Ohio	219	Ohio	Allen	61,000	17.8
Ohio	221	Ohio	Hamilton	143,000	13
Ohio	222	Ohio	Medina	35,000	6.6
Ohio	225	Ohio	Lorain	72,000	16.6
Ohio	241	Ohio	Union	24,677	19.4
Ohio	255	Ohio	Hamilton	488,000	23.2
Ohio	276	Ohio	Cuyahoga	313,158	27.6
Ohio	278	Ohio	Cuyahoga	103,379	26.2
Ohio	282	Ohio	Licking	45,000	6
Ohio	311	Ohio	Wood	21,000	8.8
Ohio	428	Ohio	Fayette	14,000	29
Ohio	43	Ohio	Fulton	6,000	25.4
Ohio	455	Ohio	Mahoning	65,469	24.2
Ohio	456	Ohio	Muskingum	47,500	12.75
Ohio	48	Ohio	Athens	24,536	23
Ohio	67	Ohio	Wood	32,000	26.6
Ohio	73	Ohio	Williams	8,655	19.2
Ohio	975	Ohio	Greene	4,100	17
Ohio	98	Ohio	Pickaway	13,965	6.8
Oklahoma	2577	Oklahoma	Cleveland	122,837	52
Oklahoma	2580	Oklahoma	Seminole	7,488	67
Oklahoma	2585	Oklahoma	Woodward	11,998	58.67
Oregon	929	Oregon	Linn	57,785	1.33
Oregon	930	Oregon	Clatsop	11,326	22

Oregon	944	Oregon	Washington	9,000	13.33
Oregon	957	Oregon	Coos	9,975	3
Oregon	966	Oregon	Columbia	13,739	0.67
Pennsylvania	1357	Pennsylvania	Montgomery	30,000	16.8
Pennsylvania	1529	Pennsylvania	Indiana	28,809	28.4
Pennsylvania	1776	Pennsylvania	Trumbull, Mercer	19,000	23
Pennsylvania	1787	Pennsylvania	Chester	10,500	12.8
Pennsylvania	2363	Pennsylvania	Montgomery	16,000	11.8
Rhode Island	1134	Rhode Island	Kent	60,224	24.6
Rhode Island	1224	Rhode Island	Kent	33,000	8.4
Rhode Island	464	Rhode Island	Providence	240,000	18
Rhode Island	76	Rhode Island	Providence	10,000	26.8
Tennessee	1282	Tennessee	Davidson	600,000	2
Texas	375	Houston	Harris	293,227	33.33
Texas	409	Houston	Harris	97,918	12.33
Utah	11	Utah	Salt Lake	89,507	30
Utah	31	Utah	Utah	35,840	20
Utah	32	Utah	Tooele	36,244	16.6
Utah	7	Utah	Salt Lake	515,494	25
Virginia	1237	Virginia	Tazewell	4,600	54.33
Virginia	180	Virginia	Chesapeake City, Virginia Beach City, Norfolk City, Portsmouth City	192,347	55
Virginia	1827	Virginia	Prince William, Fairfax	165,901	54
Virginia	1828	Virginia	Stafford	44,000	new site
Virginia	1838	Virginia	Manassas City, Fairfax City, Fauquier, Fairfax, Prince William, Loudoun, Manassas Park City	350,000	41.33
Virginia	2037	Virginia	Mathews, York, Gloucester, Poquoson City, Newport News City, Hampton City	99,112	51.67
Virginia	2485	Virginia	Prince Edward, Cumberland	12,390	new site
Virginia	42	Virginia	Prince William, Stafford	92,000	24
Virginia	454	Virginia	Washington	7,300	43
Washington	1399	Washington	Jefferson	10,000	2.33
Washington	1620	Washington	Walla Walla	33,000	12
Washington	2420	Washington	King, Snohomish	789,000	11.2
Washington	753	Washington	Franklin	73,000	5.67
Wisconsin	136	Wisconsin	Chippewa, Eau Claire	77,714	16.4

Wisconsin	182	Wisconsin	Saint Croix	19,680	32.4
Wisconsin	231	Wisconsin	Dane	391,815	7.23
Wisconsin	236	Wisconsin	Marinette	11,000	28
Wisconsin	239	Wisconsin	Marathon, Wood	19,300	4.8
Wisconsin	2531	Wisconsin	Dane	89,139	7.4
Wisconsin	257	Wisconsin	Washington, Racine, Milwaukee, Waukesha, Ozaukee	615,934	24
Wisconsin	313	Wisconsin	Marinette	3,500	38.8
Wisconsin	344	Wisconsin	Saint Croix, Pierce	15,900	19.67
Wisconsin	420	Wisconsin	Vernon	4,400	3.8
Wisconsin	44	Wisconsin	Ashland	8,200	33.67
Wisconsin	60	Wisconsin	Jackson	5,000	28.2
Wisconsin	696	Wisconsin	Jefferson, Dodge	23,660	44.4
West Virginia	2067	West Virginia	Taylor	6,071	N/A
West Virginia	2546	West Virginia	Harrison	26,498	N/A
West Virginia	2549	West Virginia	Randolph	2,101	N/A
West Virginia	2552	West Virginia	Marion	1,091	N/A
West Virginia	2557	West Virginia	Pleasants	2,892	N/A
West Virginia	2563	West Virginia	Fayette	2,626	51.5
West Virginia	91	West Virginia	Kanawha	49,500	18.44
Wyoming	2732	Wyoming	Sweetwater	32,000	N/A
Alabama	1893	Alabama	Jefferson	77,000	11
California	1371	California	Merced	42,000	12.57
California	1665	California	San Mateo	40,000	0
California	1668	California	Contra Costa	484,800	16.43
California	1669	California	Marin	104,250	38.6
California	1685	California	Alameda	740,000	31.86
California	1694	California	Los Angeles	200,000	25.86
California	1711	California	Marin	18,000	29.43
California	1712	California	San Mateo	28,000	11.17
California	1713	California	Napa	83,300	26.29
California	1874	California	Alameda	68,150	15
California	1876	California	Marin	25,000	49
California	1888	California	Sonoma	230,000	27.86
California	1904	California	San Bernardino	890,000	9.43
California	1913	California	Yolo	59,000	17
California	1946	California	Santa Clara	153,000	40.53
California	2406	California	Santa Cruz	60,000	28.86
California	2600	California	Madera	67,944	3.57
California	352	California	Santa Clara	110,338	25.2
California	362	California	San Francisco, San Mateo	250,000	20.36
Colorado	1902	Colorado	Douglas	25,000	32.43
District of	2597	District of	Fairfax, District Of Columbia,	2,000,000	15.71

Columbia		Columbia	Loudoun, Prince Georges		
Florida	1686	Florida	Orange	195,299	17.17
Florida	1715	Florida	Orange	183,009	5.83
Florida	1875	Florida	Seminole	95,000	12
Florida	2327	Florida	Leon	212,065	30.29
Florida	2358	Florida	Pinellas	89,847	24.43
Georgia	1666	Georgia	Fulton	73,821	15.57
Georgia	1740	Georgia	Fulton	294,660	14.57
Georgia	1741	Georgia	Fulton	105,160	31.43
Georgia	1742	Georgia	Fulton	70,887	25
Iowa	1839	Iowa	Clinton	29,300	30
Iowa	1867	Iowa	Johnson	23,000	28.86
Illinois	1689	Illinois	Du Page	86,000	27.29
Indiana	1739	Indiana	Clark	25,000	19.43
Indiana	1889	Indiana	St Joseph	130,000	16.29
Indiana	772	Indiana	Monroe	56,090	23.13
Indiana	828	Indiana	Hamilton	86,000	27.86
Kansas	1710	Kansas	Saline	47,000	66.43
Kansas	1811	Kansas	Wyandotte	35,000	13.14
Kansas	1900	Kansas	Wyandotte	90,000	28.57
Massachusetts	1780	Massachusetts	Worcester, Norfolk, Suffolk, Plymouth, Middlesex	2,400,000	22.29
Maine	1989	Maine	Cumberland	10,000	20
Maine	1992	Maine	Cumberland	65,000	31.17
Maine	2002	Maine	York	10,000	36.83
Maine	2598	Maine	Penobscot	40,000	65
Mississippi	2479	Mississippi	Jackson	19,008	19
New Hampshire	1706	New Hampshire	Merrimack	4,000	24.14
New Hampshire	497	New Hampshire	Merrimack	45,000	23.29
New Jersey	2107	New Jersey	Cumberland	50,000	48.75
Nevada	2607	Nevada	Clark	990,000	16.14
Tennessee	2612	Tennessee	Shelby	300,000	40.43
Texas	1761	Texas	Potter, Randall	60,000	35.86
Texas	1762	Texas	Potter, Randall	140,000	28.29
Texas	1881	Texas	Cooke	17,300	35.43
Texas	1947	Texas	Montgomery	65,000	35
Texas	2326	Texas	Dallas	630,000	7.67
Texas	2615	Texas	Dallas	421,700	26.83
Texas	865	Texas	Webb	120,000	31.57
Texas	867	Texas	Webb	140,000	16.86
Virginia	2008	Virginia	Stafford	100,000	57.86
Vermont	2599	Vermont	Chittenden	30,000	30.29
Vermont	2613	Vermont	Washington	10,100	16.86
Arkansas	1546	Arkansas	Pulaski	18,463	24.2

Arkansas	2588	Arkansas	Boone	14,000	29
California	2487	California	Monterey	16,000	51.8
California	2526	California	Ventura	250,000	12
California	2590	California	Alameda	60,000	22.4
California	2594	California	San Luis Obispo	39,000	13
California	2623	California	Santa Cruz	12,000	19.4
Connecticut	2486	Connecticut	Fairfield	45,878	34.8
Florida	1686	Florida	Orange	277,823	17.25
Florida	1702	Florida	Orange	59,587	22.25
Florida	2637	Florida	Palm Beach, Martin	100,000	11.6
Florida	2692	Florida	Sarasota	100,000	38.2
Hawaii	2610	Hawaii	Honolulu	101,000	54
Hawaii	2675	Hawaii	Honolulu	47,000	24
Iowa	2488	Iowa	Union, Dakota, Woodbury	110,000	18.6
Iowa	544	Iowa	Johnson	75,000	18.8
Louisiana	1650	Louisiana	Lafayette	13,000	13.8
Louisiana	2659	Louisiana	Lafayette	20,000	10.4
Massachusetts	2522	Massachusetts	Hampden	55,000	12
Maryland	1262	Maryland	Anne Arundel	11,802	27.6
Maryland	1268	Maryland	Anne Arundel	150,078	29.4
Maryland	1285	Maryland	Anne Arundel	13,296	35
Maine	2500	Maine	Aroostook	5,000	0
Maine	2595	Maine	Oxford	1,500	10.6
Maine	2681	Maine	Cumberland	6,000	22.5
Maine	347	Maine	Knox	7,000	34
North Carolina	1223	North Carolina	Rowan	21,000	24.8
North Carolina	2589	North Carolina	Lenoir	20,484	20
Pennsylvania	1083	Pennsylvania	Montgomery	13,000	38.6
Pennsylvania	2494	Pennsylvania	Butler	45,000	18
South Carolina	2676	South Carolina	Greenwood	12,000	12
Texas	2663	Texas	Webb	120,000	43.6
Virginia	2491	Virginia	Frederick, Winchester City	60,000	14.4
Vermont	2657	Vermont	Windsor	6,000	0
Arizona	1059	Arizona	Yuma	18,039	46.75
Arizona	1061	Arizona	Yuma	25,369	N/A
Arizona	1212	Arizona	Maricopa	53,578	73.5
Arizona	1212	Arizona	Maricopa	17,280	N/A
Arizona	1212	Arizona	Maricopa	9,430	18.5
Arizona	1212	Arizona	Maricopa	9,848	18.5
Arizona	2524	Arizona	Maricopa	19,260	12.25
California	1019	California	Lake	13,200	15.57
California	158	California	Fresno	650,000	N/A
California	2296	California	Contra Costa	218,281	6.14
California	2421	California	Placer	108,444	6
California	357	California	San Diego	2,200,000	4.71

California	59	California	Kern	168,750	13.71
Colorado	1135	Colorado	Teller	6,379	10.75
Colorado	1154	Colorado	Pitkin	17,571	20.2
Colorado	1517	Colorado	El Paso	10,000	26.67
Colorado	152	Colorado	Larimer	26,621	20
Colorado	1591	Colorado	Otero	29,643	14.75
Colorado	163	Colorado	Weld	83,319	6.75
Colorado	251	Colorado	Jefferson	345,454	18.75
Colorado	368	Colorado	Adams	54,561	5
Colorado	372	Colorado	Arapahoe	247,443	5
Colorado	408	Colorado	Summit	35,643	9.25
Colorado	578	Colorado	Las Animas	14,286	32.75
Colorado	58	Colorado	Weld, Larimer	7,946	22
Colorado	72	Colorado	Broomfield	53,356	3
Colorado	748	Colorado	El Paso	34,286	26.6
Connecticut	1079	Connecticut	New Haven	233,000	12.25
Connecticut	806	Connecticut	Fairfield	85,000	13.5
Florida	1392	Florida	Hillsborough	180,000	N/A
Florida	1501	Florida	Alachua	100,000	N/A
Florida	2327	Florida	Leon	212,065	N/A
Georgia	2703	Georgia	Cobb	190,000	N/A
Georgia	2705	Georgia	Paulding	8,000	N/A
Georgia	2706	Georgia	Floyd	75,000	N/A
Georgia	2710	Georgia	Cobb	190,000	N/A
Idaho	1802	Idaho	Elmore	16,000	N/A
Illinois	1062	Illinois	Kendall	8,400	18.33
Illinois	1243	Illinois	Du Page	76,324	9.25
Illinois	1527	Illinois	Kendall	13,477	27.8
Illinois	1610	Illinois	Washington	3,425	41
Illinois	1817	Illinois	Iroquois	4,700	26
Illinois	1847	Illinois	Du Page	65,000	14
Illinois	2126	Illinois	Perry	6,448	22
Illinois	2306	Illinois	Champaign	52,000	29
Illinois	2380	Illinois	Mclean	44,237	6
Illinois	605	Illinois	Saint Clair	26,150	12.4
Illinois	606	Illinois	Saint Clair	26,150	11.8
Illinois	615	Illinois	Randolph	6,814	77.4
Illinois	619	Illinois	Vermilion	30,479	15.5
Illinois	625	Illinois	Jo Daviess	3,460	31.8
Illinois	631	Illinois	Mcdonough	15,052	32.5
Illinois	638	Illinois	Cook	1,127,737	24.43
Illinois	645	Illinois	Lake	126,629	17
Illinois	647	Illinois	Peoria	131,000	19.8
Illinois	655	Illinois	Champaign	91,041	67.8
Illinois	674	Chicago	Cook	721,207	15.6
Illinois	675	Chicago	Cook	29,370	17.8
Illinois	675	Chicago	Cook	83,455	19.8
Illinois	675	Chicago	Cook	24,099	38.8

Illinois	697	Illinois	Rock Island	25,202	19.2
Illinois	698	Illinois	Rock Island	43,768	8.6
Illinois	894	Illinois	Lee	15,115	15.2
Indiana	1459	Indiana	Jasper	5,800	60.4
Indiana	2481	Indiana	Lawrence	12,000	14.8
Kansas	2075	Kansas	Reno	39,712	36.6
Kansas	2461	Kansas	Johnson	66,377	9
Kansas	406	Kansas	Johnson	54,985	5.75
Kentucky	2652	Kentucky	Warren	67,233	21
Louisiana	1567	Louisiana	Livingston	12,342	N/A
Louisiana	1794	Louisiana	Plaquemines	7,500	N/A
Louisiana	1929	Louisiana	Ouachita	30,000	N/A
Louisiana	1962	Louisiana	Beauregard	11,000	N/A
Louisiana	1978	Louisiana	Red River	19,000	N/A
Louisiana	1979	Louisiana	Iberia	36,123	N/A
Louisiana	1980	Louisiana	Allen	8,137	N/A
Louisiana	1981	Louisiana	Richland	3,695	N/A
Louisiana	2012	Louisiana	Tangipahoa	6,000	N/A
Louisiana	2039	Louisiana	West Baton Rouge	6,416	N/A
Louisiana	2204	Louisiana	Saint Tammany	10,000	N/A
Massachusetts	2471	Massachusetts	Suffolk	5,424	24
Maine	1987	Maine	Waldo	4,000	47.33
Maine	1992	Maine	Cumberland	65,000	new site
Maine	1993	Maine	Penobscot	2,500	23.75
Maine	1996	Maine	Aroostook	5,000	27
Maine	347	Maine	Knox	7,000	N/A
Maine	475	Maine	Piscataquis	900	N/A
Michigan	1018	Michigan	Bay	20,000	24
Michigan	1020	Michigan	Dickinson	3,200	19.33
Michigan	1040	Michigan	Ottawa	3,535	29
Michigan	1040	Michigan	Ottawa	11,200	5.8
Michigan	1048	Michigan	Calhoun	6,964	1
Michigan	1086	Michigan	Ottawa	20,000	20.4
Michigan	1102	Michigan	Dickinson	13,500	24.5
Michigan	1125	Michigan	Marquette	3,500	55.5
Michigan	1136	Michigan	Clare	3,042	42
Michigan	1155	Michigan	Tuscola	3,000	22.33
Michigan	1168	Michigan	Kent	68,000	22.5
Michigan	1598	Michigan	Wexford	10,450	20.33
Michigan	1600	Michigan	Mason	8,100	12.67
Michigan	1729	Michigan	Wayne	51,939	48
Michigan	2047	Michigan	Allegan	11,000	N/A
Michigan	801	Michigan	Grand Traverse	29,400	35.67
Michigan	874	Michigan	Emmet	7,900	11.5
Michigan	891	Michigan	Kalamazoo	12,366	11.2
Michigan	896	Michigan	Wayne, Macomb	492,000	39
Michigan	898	Michigan	Oakland, Wayne	840,600	51.6



Minnesota	1048	Minnesota	Lyon	13,867	71.2
Minnesota	2230	Minnesota	Hennepin, Carver, Scott	296,546	19.8
Minnesota	2232	Minnesota	Saint Louis	4,904	39
Minnesota	2235	Minnesota	Sherburne	26,226	32.8
Minnesota	2243	Minnesota	Le Sueur	3,863	23.5
Minnesota	2252	Minnesota	Olmsted	122,657	15.75
Minnesota	249	Minnesota	Hennepin, Washington, Dakota, Anoka, Ramsey	1,913,563	22.8
Missouri	192	Missouri	Jasper	34,403	27
Missouri	195	Missouri	Cass, Jackson, Johnson	490,000	31.67
Missouri	200	Missouri	Johnson, Jackson, Wyandotte	61,250	22.67
Missouri	218	Missouri	Clay	35,300	35.33
Missouri	266	Missouri	Jefferson, Saint Louis	24,174	41.67
Missouri	280	Missouri	Vernon	8,082	N/A
Missouri	284	Missouri	Christian	20,000	41.33
Missouri	312	Missouri	Perry	9,000	33.67
Missouri	317	Missouri	Platte	8,000	48
Missouri	407	Missouri	Franklin	7,936	N/A
Missouri	441	Missouri	Howell	12,000	N/A
Missouri	827	Missouri	Dent	4,512	35
North Carolina	1611	North Carolina	Forsyth, Randolph, Davidson, Guilford	116,390	15.2
North Carolina	2017	North Carolina	Lincoln	15,042	9.2
North Carolina	2021	North Carolina	Union	70,608	27.6
North Carolina	2033	North Carolina	Henderson	43,633	35.8
North Carolina	2101	North Carolina	Lincoln	11,000	16.4
North Carolina	216	North Carolina	Scotland	15,527	11.6
North Carolina	345	North Carolina	Northampton, Halifax	14,320	33.8
North Carolina	405	North Carolina	Jackson	13,296	39.2
North Carolina	53	North Carolina	Carteret	3,500	46.5
North Carolina	84	North Carolina	Wake	84,189	22.4
North Carolina	93	North Carolina	Mecklenburg	182,501	20.4
Nebraska	1799	Nebraska	Nemaha	3,800	22.2
Nebraska	915	Nebraska	Dawes	5,561	29.4
Nebraska	918	Nebraska	Hall	52,000	12.8
Nebraska	920	Nebraska	Buffalo	33,790	14
New Hampshire	2085	New Hampshire	Strafford	32,000	N/A
New Hampshire	2093	New Hampshire	Sullivan	6,500	N/A
New Hampshire	2095	New Hampshire	Rockingham	22,000	N/A

New Jersey	1322	New Jersey	Union, Essex	1,300,000	26
New Jersey	1385	New Jersey	Hudson	145,000	16.6
New Jersey	1605	New Jersey	Bergen	564,563	21.6
New Jersey	2107	New Jersey	Cumberland	30,000	32
New Jersey	2349	New Jersey	Atlantic	12,000	8.8
New Jersey	2350	New Jersey	Morris	24,530	34
New Jersey	2355	New Jersey	Union	204,148	6.75
New Jersey	2377	New Jersey	Monmouth	47,357	19.4
New Jersey	2400	New Jersey	Salem	5,500	24.33
New Mexico	1362	New Mexico	Luna	14,000	new site
New York	1009	New York	Niagara	48,196	43
New York	1150	New York	Suffolk	7,741	42.2
New York	1404	New York	Rockland	10,890	25.33
New York	1460	New York	Orange	28,914	26.33
New York	1484	New York	Westchester	94,095	31.4
New York	1488	New York	Westchester	31,046	32
New York	1844	New York	Saint Lawrence	22,552	45.8
New York	1852	New York	Saint Lawrence	14,475	50.8
New York	1855	New York	Albany	31,023	24.2
New York	2007	New York	Wayne	5,145	48.33
New York	2050	New York	Nassau	5,824	53.33
New York	2080	New York	Nassau	27,494	32.8
New York	2110	New York	Rensselaer	13,720	49
New York	2176	New York	Chemung	38,037	51.33
New York	2181	New York	Monroe	487,322	24.8
New York	2182	New York	Orange	6,369	31.2
New York	2189	New York	Ulster	10,577	24
New York	2194	New York	Saratoga	152,482	7.8
New York	2197	New York	Essex	3,263	31.33
New York	2201	New York	Oswego	14,199	48.8
New York	2264	New York	Nassau	8,288	14.4
New York	2268	New York	Onondaga	3,272	4
New York	2280	New York	Seneca	6,160	33
New York	2281	New York	Chautauqua	3,365	50.33
New York	300	New York	Otsego	19,383	5
New York	426	New York	Orange	6,729	35.6
New York	477	New York	Essex	3,076	7.67
New York	483	New York	Delaware	3,581	19.5
New York	513	New York	Onondaga	30,613	36.67
New York	524	New York	Orange	36,227	25
New York	529	New York	Orange	8,568	16
New York	531	New York	Jefferson	4,077	34
New York	532	New York	Onondaga	25,965	27.67
New York	776	New York	Ulster	26,599	35.25
New York	986	New York	Washington	12,260	24
New York	997	New York	Genesee	16,459	19.2
Ohio	127	Ohio	Montgomery	226,729	7.4
Ohio	1805	Ohio	Huron	3,276	27.2

Ohio	1957	Ohio	Lake	20,000	13
Ohio	214	Ohio	Fairfield	24,303	12.8
Ohio	233	Ohio	Richland	52,000	11.2
Ohio	235	Ohio	Washington	15,284	N/A
Ohio	273	Ohio	Hamilton	76,000	12.2
Ohio	309	Ohio	Licking	3,300	8.4
Ohio	326	Ohio	Scioto	20,366	28.2
Ohio	36	Ohio	Summit	363,897	16.6
Ohio	395	Ohio	Hamilton	34,000	10.6
Ohio	398	Ohio	Lucas	322,446	21.4
Ohio	403	Ohio	Montgomery	65,000	24
Ohio	54	Ohio	Greene	46,160	11.5
Ohio	79	Ohio	Stark	85,000	9.8
Ohio	859	Ohio	Mercer	4,800	22.6
Oklahoma	2576	Oklahoma	Muskogee	36,790	35
Oklahoma	2586	Oklahoma	Canadian	24,623	43.33
Oregon	2639	Oregon	Multnomah	45,600	4.33
Oregon	932	Oregon	Deschutes	92,850	2
Oregon	935	Oregon	Polk	16,555	5
Oregon	949	Oregon	Washington	40,000	7.67
Oregon	951	Oregon	Umatilla	18,775	9
Oregon	953	Oregon	Klamath	28,000	4.33
Oregon	956	Oregon	Jackson	133,708	3.67
Oregon	965	Oregon	Marion	10,520	4.5
Oregon	967	Oregon	Marion	10,840	6.33
Oregon	971	Oregon	Lane	235,155	26.5
Pennsylvania	1366	Pennsylvania	Dauphin	125,000	10.6
Pennsylvania	1368	Pennsylvania	Westmoreland, Armstrong	34,200	23.6
Pennsylvania	1376	Pennsylvania	Westmoreland	4,600	20
Pennsylvania	1390	Pennsylvania	Monroe	25,000	41.4
Pennsylvania	1553	Pennsylvania	Mckean	14,194	18.2
Pennsylvania	1777	Pennsylvania	Monroe	4,000	29.2
Pennsylvania	2307	Pennsylvania	Montgomery	35,000	16.2
Pennsylvania	2308	Pennsylvania	Montgomery	8,900	4.75
Pennsylvania	2329	Pennsylvania	Montgomery	35,000	24.4
Rhode Island	677	Rhode Island	Bristol	21,100	12.4
South Carolina	1871	South Carolina	Beaufort	20,000	91
South Carolina	908	South Carolina	Richland	60,000	14.2
Texas	113	Houston	Harris	3,825	14.67
Texas	201	Houston	Harris	124,000	N/A
Texas	207	Houston	Harris, Montgomery	52,055	18.33
Texas	250	Houston	Harris	20,161	34.67
Texas	290	Houston	Harris	95,600	33
Texas	307	Houston	Harris	5,497	11.67
Texas	366	Houston	Harris	109,414	32.67
Texas	367	Houston	Harris	109,414	16.33

Texas	406	Houston	Harris	59,188	36
Texas	443	Houston	Harris	3,623	11
Texas	449	Houston	Harris	8,610	13
Texas	56	Houston	Harris	70,900	12.33
Utah	1077	Utah	Wasatch	5,806	new site
Utah	11	Utah	Utah, Salt Lake	94,484	21.8
Utah	12	Utah	Cache	94,005	45.25
Utah	16	Utah	Weber, Davis	228,700	38.4
Utah	20	Utah	Utah	21,231	25
Utah	21	Utah	Duchesne	6,790	27.6
Utah	22	Utah	Summit	23,946	20
Utah	24	Utah	Davis	84,981	38.4
Utah	28	Utah	Salt Lake	209,645	21.6
Utah	2	Utah	Uintah	29,513	23
Utah	5	Utah	Iron	32,451	53.8
Virginia	1576	Virginia	Loudoun	300,000	15
Virginia	177	Virginia	Chesapeake City, Virginia Beach City	530,848	26.67
Virginia	181	Virginia	Williamsburg City, Newport News City, York, New Kent, James City	69,059	39.33
Virginia	1826	Virginia	Wise, Norton City	14,000	60.6
Virginia	1831	Virginia	Rockingham, Harrisonburg City	81,000	65
Virginia	1833	Virginia	Montgomery, Pulaski, Radford	70,000	43.8
Virginia	1834	Virginia	Bedford City, Roanoke, Roanoke City, Salem, Botetourt, Bland	300,000	26.6
Virginia	1837	Virginia	Russell	3,100	76
Virginia	1985	Virginia	Clifton Forge City	4,000	52
Virginia	2078	Virginia	Fairfax, Falls Church City, Arlington, Alexandria City	232,965	32.2
Virginia	2290	Virginia	Henrico	330,000	31
Virginia	342	Virginia	Richmond City, Goochland, Henrico	225,000	new site
Washington	2104	Washington	Kittitas	21,761	2
Washington	2105	Washington	Island	24,180	16.8
Washington	2414	Washington	Snohomish	20,000	31.5
Washington	2424	Washington	Skagit	17,000	6.33
Washington	2438	Washington	Clark	162,100	14
Washington	2444	Washington	Snohomish	173,800	6
Washington	2534	Washington	Clark	81,140	9.8

Washington	755	Washington	Benton	15,000	28.5
Washington	760	Washington	Spokane	120,000	3
Wisconsin	153	Wisconsin	Waukesha	51,000	39.6
Wisconsin	172	Wisconsin	Washington, Dodge	16,000	21.33
Wisconsin	223	Wisconsin	Columbia	3,100	31.67
Wisconsin	243	Wisconsin	Juneau	4,400	55.33
Wisconsin	260	Wisconsin	Green	11,000	23.8
Wisconsin	297	Wisconsin	Jefferson, Waukesha	22,000	27.8
Wisconsin	325	Wisconsin	Columbia	11,000	36
Wisconsin	389	Wisconsin	Portage	27,000	28.2
Wisconsin	392	Wisconsin	Douglas	28,000	22.2
Wisconsin	432	Wisconsin	Waupaca	8,000	17.6
Wisconsin	433	Wisconsin	Marathon	42,350	15.4
West Virginia	1861	West Virginia	Wayne, Cabell	56,000	32.33
West Virginia	2545	West Virginia	Monongalia	2,000	N/A
West Virginia	2646	West Virginia	Putnam	4,900	N/A
Wyoming	2626	Wyoming	Sweetwater	12,000	14.75
Wyoming	2627	Wyoming	Carbon	8,298	3.5
Wyoming	2628	Wyoming	Sheridan	19,000	8.4
Wyoming	2721	Wyoming	Albany	32,363	N/A
Alaska	2609	Alaska	Anchorage	220,000	6.29
Alabama	1718	Alabama	Jefferson	225,000	38.43
Alabama	1719	Alabama	Jefferson	200,000	28.83
Arkansas	2588	Arkansas	Boone	15,000	43.29
California	1690	California	Los Angeles	4,000,000	4.57
California	1703	California	Marin	53,000	22.29
California	1869	California	Riverside	350,000	10.86
California	1873	California	Alameda	47,229	26
California	1882	California	San Benito	42,000	39.43
California	1885	California	San Luis Obispo	31,037	22.57
California	1910	California	Stanislaus	86,000	26.29
California	2404	California	San Bernardino	73,000	23.5
Delaware	1930	Delaware	Sussex	13,172	22
Florida	1897	Florida	Palm Beach	90,000	20.43
Florida	2359	Florida	Pinellas	47,790	41.86
Georgia	1663	Georgia	Fulton	189,593	20
Hawaii	2297	Hawaii	Honolulu	300,000	21.29
Iowa	1783	Iowa	Muscatine	24,400	26.17
Iowa	1791	Iowa	Wapello	25,529	11
Idaho	1842	Idaho	Ada	186,901	17.71
Idaho	1879	Idaho	Kootenai	50,540	18.71
Idaho	813	Idaho	Ada	108,556	19.43
Illinois	1721	Illinois	Du Page	63,000	31.86
Kansas	1813	Kansas	Wyandotte	15,000	47.43
Maryland	1808	Maryland	Saint Marys	55,000	23.86
Michigan	1691	Michigan	Jackson	90,000	20.57

Michigan	1781	Michigan	Kent	75,000	23.14
Michigan	1878	Michigan	Washtenaw	125,000	6.67
Minnesota	1886	Minnesota	Olmsted	120,000	30.57
Mississippi	2480	Mississippi	Jackson	34,333	21
North Carolina	1662	North Carolina	Forsyth	92,000	11.17
North Carolina	2605	North Carolina	Wilson	50,000	16.57
New Jersey	1907	New Jersey	Monmouth	52,672	32.71
New York	2608	New York	Tompkins	90,000	17
Pennsylvania	1737	Pennsylvania	Delaware	220,000	16.67
South Dakota	2606	South Dakota	Yankton	20,000	33.14
Texas	1949	Texas	Montgomery	15,000	9.14
Virginia	1828	Virginia	Stafford	50,000	50.86
West Virginia	2604	West Virginia	Ohio	100,000	33.14
Alabama	2629	Alabama	Lee	70,000	31.2
Arkansas	1542	Arkansas	Pulaski	30,377	26.8
Arkansas	2631	Arkansas	Greene	25,000	31.33
Arkansas	2686	Arkansas	Garland	38,000	36.6
California	1668	California	Contra Costa	495,000	39
California	2638	California	El Dorado	30,000	0
California	2680	California	Sonoma	237,800	42.8
California	2684	California	Santa Cruz	164,000	25.6
California	2685	California	San Luis Obispo	15,000	new site
Connecticut	2645	Connecticut	Fairfield	52,268	26.4
Florida	1631	Florida	Orange	80,000	22.5
Florida	1715	Florida	Orange	463,672	15.5
Hawaii	2484	Hawaii	Hawaii	32,604	23.8
Hawaii	2668	Hawaii	Honolulu	340,000	24
Kansas	2670	Kansas	Shawnee	95,000	14.4
Louisiana	1651	Louisiana	Lafayette	5,000	24
Louisiana	2665	Louisiana	Saint Tammany	15,000	14.2
Maryland	1260	Maryland	Anne Arundel	89,319	51.4
Maryland	1284	Maryland	Anne Arundel	78,365	31.6
Maine	2077	Maine	Penobscot	20,000	42
Maine	2498	Maine	Cumberland	8,500	6.2
Maine	65	Maine	Lincoln	2,222	23.6
North Carolina	2596	North Carolina	Pender, Duplin	10,000	15.6
South Carolina	2564	South Carolina	Horry	12,000	20
Tennessee	2690	Tennessee	Chester	3,710	49
Texas	1140	Texas	Travis	539,116	14.33
Texas	2661	Texas	Webb	30,000	22
Virginia	2648	Virginia	Martinsville City, Henry	63,000	14
Wyoming	2502	Wyoming	Sheridan	18,000	19.6
Arizona	1053	Arizona	Yuma	8,271	31.4
Arizona	1055	Arizona	Yuma	8,271	16.2
Arizona	1212	Arizona	Maricopa	12,542	27.25
Arizona	1271	Arizona	Pima	23,000	32.8
Arizona	808	Arizona	Mohave	37,500	15.6

California	1524	California	Plumas	4,217	N/A
California	2061	California	San Joaquin	320,000	7
California	2062	California	San Joaquin	98,601	13.67
California	211	California	Los Angeles	3,500,000	10.83
California	2330	California	Santa Barbara	77,600	12.86
California	2338	California	Butte	44,000	26.83
California	2411	California	Butte	101,299	4.43
Colorado	1024	Colorado	Archuleta	27,857	1
Colorado	116	Colorado	El Paso	102,204	11
Colorado	117	Colorado	El Paso	303,855	11.25
Colorado	122	Colorado	Summit	7,857	15.5
Colorado	1514	Colorado	El Paso	5,936	17.67
Colorado	1518	Colorado	El Paso	9,286	28.75
Colorado	151	Colorado	Larimer	92,127	6.75
Colorado	1563	Colorado	Elbert	3,571	6.25
Colorado	224	Colorado	Boulder, Weld	75,544	16.8
Colorado	370	Colorado	Larimer	23,194	3.75
Colorado	49	Colorado	Arapahoe, Adams	268,004	0.5
Colorado	656	Colorado	La Plata	23,429	12
Colorado	66	Colorado	Boulder	89,383	4.33
Colorado	747	Colorado	Arapahoe	25,714	24.67
Colorado	845	Colorado	Summit	14,286	5
Connecticut	686	Connecticut	New Haven	115,000	20.6
Delaware	1183	Delaware	Sussex	7,000	26.6
Delaware	1185	Delaware	Sussex	4,392	20.2
Delaware	1187	Delaware	New Castle	17,145	17.2
Delaware	1192	Delaware	Sussex	7,000	38
Delaware	1194	Delaware	New Castle	539,000	9.6
Florida	1631	Florida	Orange	50,000	N/A
Florida	669	Florida	Orange	277,823	N/A
Georgia	2697	Georgia	Laurens	17,000	N/A
Georgia	2702	Georgia	Richmond	198,000	N/A
Georgia	2707	Georgia	Houston	120,000	N/A
Georgia	2715	Georgia	Clayton	123,715	N/A
Idaho	1801	Idaho	Payette	6,350	N/A
Idaho	818	Idaho	Ada	120,344	N/A
Illinois	1816	Illinois	Madison	26,000	20
Illinois	1943	Illinois	Sangamon	102,000	14.6
Illinois	603	Illinois	Kane	11,290	28.2
Illinois	607	Illinois	Boone	25,134	33
Illinois	611	Illinois	Fulton	13,506	22.4
Illinois	612	Illinois	Greene	3,064	39.8
Illinois	620	Illinois	Macon	88,500	39.8
Illinois	632	Illinois	Cook	270,647	10.86
Illinois	633	Illinois	Warren	10,836	26.25
Illinois	635	Chicago	Cook	3,816	33.2
Illinois	642	Illinois	Du Page	164,781	29.8

Illinois	699	Illinois	Tazewell	32,540	30.2
Illinois	871	Illinois	La Salle	18,768	25.8
Illinois	978	Illinois	McLean	42,000	12.2
Illinois	981	Illinois	De Kalb	45,000	17.4
Illinois	982	Illinois	Cook	1,263,110	17.71
Indiana	1458	Indiana	Noble	10,000	25.4
Indiana	1479	Indiana	Elkhart	35,000	30
Indiana	1619	Indiana	Marion	800,000	23
Indiana	2337	Indiana	Tippecanoe	60,000	25.8
Indiana	2341	Indiana	St Joseph	130,000	18.5
Indiana	2342	Indiana	Vigo	58,500	26.8
Indiana	2343	Indiana	Wayne	36,000	50
Indiana	828	Indiana	Hamilton	86,000	16.6
Kansas	2465	Kansas	Johnson	42,235	5.67
Kentucky	2651	Kentucky	Calloway	28,837	38
Kentucky	2655	Kentucky	Shelby	32,160	15
Louisiana	1758	Louisiana	Pointe Coupee	5,303	N/A
Louisiana	1858	Louisiana	Terrebonne	30,000	N/A
Louisiana	1919	Louisiana	Bienville	3,500	N/A
Louisiana	1924	Louisiana	Ouachita	76,000	N/A
Louisiana	1928	Louisiana	Ouachita	12,600	N/A
Louisiana	1959	Louisiana	Washington	13,675	N/A
Louisiana	1964	Louisiana	Union	4,000	N/A
Louisiana	1965	Louisiana	Saint Mary	9,700	N/A
Louisiana	1968	Louisiana	East Feliciana	7,811	N/A
Louisiana	1973	Louisiana	Livingston	7,477	N/A
Louisiana	1976	Louisiana	Jefferson	173,101	N/A
Louisiana	2225	Louisiana	Jefferson	10,800	N/A
Louisiana	2691	Louisiana	Caddo	5,300	N/A
Massachusetts	1037	Massachusetts	Suffolk, Middlesex	1,375,228	15
Massachusetts	1038	Massachusetts	Norfolk, Middlesex, Suffolk	1,075,656	19.2
Massachusetts	2471	Massachusetts	Suffolk	3,196	4
Massachusetts	2471	Massachusetts	Suffolk	42,494	24
Maine	1206	Maine	York	21,000	N/A
Maine	1990	Maine	Penobscot	57,000	28.33
Maine	1991	Maine	Washington	2,592	22.67
Maine	1992	Maine	Cumberland	65,000	22
Maine	1998	Maine	Washington	1,635	34.67
Maine	2000	Maine	Aroostook	9,000	N/A
Maine	2001	Maine	Cumberland	24,000	12.33
Maine	65	Maine	Lincoln	1,759	N/A
Michigan	1088	Michigan	Ottawa	25,000	18.4
Michigan	1091	Michigan	Schoolcraft	3,412	26.67
Michigan	1092	Michigan	Chippewa	15,000	24.33
Michigan	1096	Michigan	Muskegon	125,000	20.8



Michigan	1121	Michigan	Saginaw	6,300	67
Michigan	1122	Michigan	Otsego	3,670	10.75
Michigan	1125	Michigan	Marquette	4,500	23.5
Michigan	1125	Michigan	Marquette	4,500	15.5
Michigan	1138	Michigan	Isabella	25,629	66
Michigan	1167	Michigan	Kent	15,000	34
Michigan	1599	Michigan	Eaton	9,074	0
Michigan	1815	Michigan	Arenac	5,500	38.6
Michigan	1945	Michigan	Livingston	9,000	50.5
Michigan	756	Michigan	Kent	265,000	N/A
Michigan	757	Michigan	Jackson	90,000	7.31
Michigan	800	Michigan	Genesee	95,000	17.09
Michigan	801	Michigan	Grand Traverse	10,000	39.33
Michigan	801	Michigan	Grand Traverse	45,000	23.4
Michigan	823	Michigan	Houghton	14,000	16.4
Michigan	860	Michigan	Gratiot	8,976	40.5
Michigan	889	Michigan	Ottawa	6,657	6.4
Michigan	889	Michigan	Ottawa	6,524	18.2
Michigan	889	Michigan	Ottawa	45,608	8.4
Michigan	890	Michigan	Ottawa	15,498	19.6
Michigan	890	Michigan	Ottawa	8,278	28.8
Michigan	890	Michigan	Ottawa	36,912	9.6
Michigan	891	Michigan	Kalamazoo	14,378	2
Michigan	891	Michigan	Kalamazoo	39,068	15.4
Minnesota	2231	Minnesota	Isanti	9,604	38.2
Minnesota	2233	Minnesota	Washington	83,209	32
Minnesota	2237	Minnesota	Otter Tail	13,922	46.25
Minnesota	2246	Minnesota	Clay	44,602	36.2
Minnesota	2248	Minnesota	Scott, Le Sueur	8,201	11.8
Minnesota	2253	Minnesota	Hennepin	10,308	24
Minnesota	2257	Minnesota	Carlton, Saint Louis	98,018	12.2
Minnesota	2259	Minnesota	Winona	27,684	20.25
Minnesota	2260	Minnesota	Nobles	13,372	18.2
Missouri	190	Missouri	Cole, Callaway	41,153	75
Missouri	194	Missouri	Clay, Platte	76,759	N/A
Missouri	196	Missouri	Jackson	25,000	68.33
Missouri	198	Missouri	Clay	12,000	70.33
Missouri	202	Missouri	Dunklin	11,300	N/A
Missouri	265	Missouri	Saint Louis	149,112	42.67
Missouri	365	Missouri	New Madrid, Scott	17,000	71
Missouri	380	Missouri	Greene	22,818	N/A
Missouri	424	Missouri	Johnson	14,477	N/A
Missouri	438	Missouri	Saint Charles	44,852	57.33
Missouri	63	Missouri	Polk	10,500	26.33
Missouri	858	Missouri	Jackson, Cass	367,300	N/A
North Carolina	1031	North Carolina	Onslow	41,819	35.2

North Carolina	144	North Carolina	Cumberland	151,589	10
North Carolina	166	North Carolina	Guilford	135,821	47.2
North Carolina	2013	North Carolina	Union	17,000	24.2
North Carolina	2015	North Carolina	Gaston	6,700	36
North Carolina	2020	North Carolina	Cabarrus	226,400	24.4
North Carolina	271	North Carolina	Buncombe, Henderson	173,000	29.6
North Carolina	288	North Carolina	Catawba	40,488	30.6
North Carolina	303	North Carolina	Orange, Durham	78,141	12
North Carolina	334	North Carolina	Wake	30,655	9.8
North Carolina	369	North Carolina	Orange, Durham	108,105	5.4
North Carolina	450	North Carolina	New Hanover	58,361	10
North Carolina	452	North Carolina	Forsyth	178,000	17.6
North Carolina	85	North Carolina	Wake	74,331	12.8
North Carolina	92	North Carolina	Mecklenburg	68,685	17.5
North Carolina	94	North Carolina	Mecklenburg	120,000	26.6
Nebraska	1331	Nebraska	York	8,000	10.6
Nebraska	922	Nebraska	Lancaster	100,000	9.2
Nebraska	925	Nebraska	Lancaster	200,000	8.6
New Hampshire	2087	New Hampshire	Rockingham	20,000	N/A
New Hampshire	2089	New Hampshire	Cheshire	30,000	N/A
New Hampshire	2096	New Hampshire	Grafton	7,000	N/A
New Jersey	1453	New Jersey	Monmouth	47,000	16
New Jersey	2351	New Jersey	Burlington	19,980	17.8
New Jersey	2352	New Jersey	Cumberland	30,000	48
New Jersey	2356	New Jersey	Hudson	22,181	N/A
New Jersey	2373	New Jersey	Hunterdon	9,440	22.6
New Jersey	784	New Jersey	Somerset, Middlesex, Union	880,000	12.2
New Mexico	1475	New Mexico	Otero	36,000	33.2
Nevada	1117	Nevada	Carson City	52,000	47
New York	1007	New York	Genesee	4,191	0
New York	1013	New York	Erie	71,131	28
New York	1022	New York	Schenectady	78,444	34
New York	1042	New York	Columbia	6,374	36.67
New York	1044	New York	Suffolk	24,147	50.75
New York	1045	New York	Essex	6,264	24.2
New York	1068	New York	Tompkins	56,967	21
New York	1099	New York	Wyoming	3,448	15
New York	1171	New York	Schoharie	5,326	34
New York	1405	New York	Rockland	4,115	5
New York	1486	New York	Westchester	40,301	31.6
New York	1504	New York	Sullivan	6,639	36
New York	1557	New York	Orange	6,563	28.5

New York	1821	New York	Dutchess	14,525	61.33
New York	1931	New York	Albany	21,281	37.67
New York	1937	New York	Livingston	5,361	57.33
New York	2025	New York	Niagara	38,971	N/A
New York	2102	New York	Ontario	16,507	28.67
New York	2177	New York	Chemung	18,085	41.67
New York	2179	New York	Erie	24,461	25.67
New York	2186	New York	Niagara	31,032	64.75
New York	2200	New York	Jefferson	26,270	24
New York	2272	New York	Saint Lawrence	11,269	56.8
New York	2287	New York	Oneida	3,210	42
New York	2333	New York	Dutchess	3,391	0
New York	515	New York	Madison	4,843	50
New York	522	New York	Orange	27,434	31.6
New York	580	New York	Monroe	43,074	19.4
New York	694	New York	Franklin	7,175	52.5
New York	721	New York	Rensselaer	79,699	27.4
New York	723	New York	Seneca	6,961	29.33
New York	869	New York	Warren	23,462	42
New York	996	New York	Erie	142,478	60.8
New York	998	New York	Erie	431,141	45
Ohio	112	Ohio	Wayne	27,000	24.17
Ohio	140	Ohio	Lorain	54,500	10.4
Ohio	157	Ohio	Sandusky	25,000	30.2
Ohio	205	Ohio	Hardin	8,500	64.33
Ohio	2473	Ohio	Knox	7,000	23.8
Ohio	263	Ohio	Knox	18,000	28.25
Ohio	274	Ohio	Henry	8,749	25.2
Ohio	291	Ohio	Huron	17,000	16.2
Ohio	301	Ohio	Lucas	17,000	16.4
Ohio	304	Ohio	Butler	22,000	44.8
Ohio	411	Ohio	Wyandot	6,700	34.8
Ohio	442	Ohio	Montgomery	79,000	6.5
Oklahoma	2566	Oklahoma	Pontotoc	16,738	26
Oklahoma	2568	Oklahoma	Washington	36,495	7
Oklahoma	2572	Oklahoma	Bryan	18,589	55.67
Oklahoma	2583	Oklahoma	Payne	48,134	N/A
Oregon	934	Oregon	Benton	58,856	16
Oregon	936	Oregon	Lane	8,925	5.33
Oregon	942	Oregon	Washington	220,000	1
Oregon	943	Oregon	Washington	40,000	3
Oregon	945	Oregon	Multnomah	662,235	2
Oregon	955	Oregon	Yamhill	34,615	5
Oregon	959	Oregon	Umatilla	17,500	N/A
Oregon	960	Oregon	Douglas	30,000	8.5
Oregon	961	Oregon	Marion	229,000	4.67
Pennsylvania	1455	Pennsylvania	Delaware	6,800	11.8

Pennsylvania	1533	Pennsylvania	Centre	90,000	30.83
Pennsylvania	1554	Pennsylvania	Mercer	16,000	39.6
Rhode Island	464	Rhode Island	Providence	240,000	new site
Rhode Island	835	Rhode Island	Bristol	11,000	10
South Carolina	877	South Carolina	Kershaw	8,825	30.8
South Carolina	885	South Carolina	Georgetown	30,000	21.4
South Carolina	909	South Carolina	Horry	195,000	8.75
Tennessee	1323	Tennessee	Shelby	300,000	50
Texas	135	Houston	Harris	16,030	12
Texas	149	Houston	Harris	4,170	17
Texas	160	Houston	Harris	40,689	27
Texas	183	Houston	Harris	16,804	15.33
Texas	35	Houston	Harris	551,150	13
Texas	40	Houston	Harris	117,968	29
Texas	435	Houston	Harris	33,645	36
Texas	439	Houston	Harris	85,129	N/A
Texas	97	Houston	Harris	37,359	23
Utah	10	Utah	Cache	9,095	32.2
Utah	15	Utah	Grand, San Juan	9,896	50.8
Utah	18	Utah	Utah	102,624	16.6
Utah	19	Utah	Carbon	17,312	52.4
Utah	26	Utah	Utah	53,313	27.25
Utah	33	Utah	Utah	253,112	25
Utah	9	Utah	Davis, Weber	208,850	23.4
Virginia	178	Virginia	Isle Of Wight, Suffolk City, Chesapeake City, Portsmouth City	197,608	43
Virginia	1828	Virginia	Stafford	44,000	30.67
Virginia	1829	Virginia	Amherst, Lynchburg City, Campbell, Bedford City	220,000	34.4
Virginia	2035	Virginia	Hampton City, Newport News City	118,497	39.33
Virginia	2036	Virginia	James City, York, Hampton City, Newport News City	141,543	43
Virginia	38	Virginia	Alexandria City, Fairfax	300,000	28
Virginia	61	Virginia	Montgomery	52,500	36.4
Washington	1076	Washington	Chelan	35,550	18
Washington	1143	Washington	Pierce	43,000	4
Washington	1397	Washington	Pierce	295,855	8
Washington	1635	Washington	Yakima	117,072	11.8
Washington	2419	Washington	Pierce, King	896,000	25.8
Washington	2445	Washington	Skagit	35,600	20.75
Washington	351	Washington	Clark	120,000	11.25

Washington	676	Washington	King, Snohomish	288,000	14.8
Wisconsin	128	Wisconsin	Brown	43,000	38.6
Wisconsin	164	Wisconsin	Brown, Kewaunee	189,000	19.4
Wisconsin	1851	Wisconsin	Walworth	30,000	17.2
Wisconsin	189	Wisconsin	Rock	63,500	23.8
Wisconsin	203	Wisconsin	Kenosha	122,000	24.6
Wisconsin	209	Wisconsin	La Crosse	85,000	16.6
Wisconsin	246	Wisconsin	Dunn	16,000	16.67
Wisconsin	248	Wisconsin	Lincoln	9,700	23.67
Wisconsin	2499	Wisconsin	Fond Du Lac	65,000	19.8
Wisconsin	2528	Wisconsin	Dane	42,734	11.2
Wisconsin	2529	Wisconsin	Dane	70,024	15
Wisconsin	256	Wisconsin	Ozaukee, Milwaukee	470,007	26.2
Wisconsin	302	Wisconsin	Winnebago	78,300	22.4
Wisconsin	41	Wisconsin	Outagamie, Winnebago, Calumet	72,810	26
West Virginia	1860	West Virginia	Kanawha	9,000	N/A
West Virginia	1863	West Virginia	Cabell	7,000	21.33
West Virginia	1864	West Virginia	Cabell	7,200	34.83
West Virginia	2541	West Virginia	Preston	700	N/A
West Virginia	2544	West Virginia	Jefferson	17,000	24.5
West Virginia	2547	West Virginia	Randolph	13,156	N/A
West Virginia	2550	West Virginia	Mineral	8,168	N/A
West Virginia	2553	West Virginia	Marshall	12,000	N/A
West Virginia	2555	West Virginia	Mason	5,515	9
West Virginia	2556	West Virginia	Mercer	36,000	N/A
West Virginia	2562	West Virginia	Ohio	50,000	N/A
Wyoming	2625	Wyoming	Laramie	74,600	7.2
Wyoming	2739	Wyoming	Sweetwater	32,000	N/A
Alabama	1716	Alabama	Jefferson	30,000	48.83
California	1695	California	Marin	30,000	28.83
California	1760	California	Yolo	4,006	19.14
California	1766	California	Yolo	7,286	32.83
California	1790	California	Orange	120,000	15.57
California	1887	California	San Mateo	150,000	10.14
California	1905	California	Marin	30,000	52.57
California	2590	California	Alameda	50,000	27.14
California	305	California	Santa Clara	236,000	22
California	363	California	San Francisco, San Mateo	750,000	23.2
Connecticut	2603	Connecticut	Fairfield	140,000	9.71
Florida	1631	Florida	Orange	50,000	27.33
Georgia	1697	Georgia	Fulton	12,818	44.57
Hawaii	2299	Hawaii	Honolulu	390,000	10.57
Hawaii	2301	Hawaii	Honolulu	18,000	19.29
Iowa	1884	Iowa	Marshall	27,400	34.71

Indiana	1738	Indiana	Clark	25,000	21
Kansas	1895	Kansas	Douglas	80,000	29.29
Louisiana	2618	Louisiana	Orleans	50,591	21
Maryland	1782	Maryland	Washington	90,000	7.29
Maine	2611	Maine	Androscoggin	60,000	4.4
Michigan	1890	Michigan	Macomb	140,000	27.5
Michigan	2208	Michigan	Isabella	21,690	25.43
Minnesota	2263	Minnesota	Goodhue	16,000	14.86
Minnesota	2616	Minnesota	Benton, Stearns, Sherburne	120,000	25.43
Nebraska	2614	Nebraska	Lancaster	60,000	12.43
New Jersey	2222	New Jersey	Monmouth	100,000	41.14
New Jersey	2619	New Jersey	Somerset	130,000	37.29
New York	2601	New York	Oswego	30,000	36.71
Ohio	1891	Ohio	Mahoning	174,000	24
Pennsylvania	1667	Pennsylvania	Dauphin	125,000	20.14
Tennessee	2288	Tennessee	Walker, Dade, Catoosa, Hamilton	400,000	26.5
Texas	2325	Texas	Dallas	270,000	15.5
Utah	1708	Utah	Utah	115,000	15.4
Utah	1877	Utah	Salt Lake	600,000	24.71
Washington	2602	Washington	Snohomish	10,150	8
Alaska	1490	Alaska	Juneau	12,000	36
Alaska	1491	Alaska	Juneau	22,000	18.17
Alabama	2510	Alabama	Colbert	18,000	10.6
Arkansas	1543	Arkansas	Pulaski	23,812	25
California	1199	California	Kings	59,488	21.75
Connecticut	2650	Connecticut	New London	41,000	15
Hawaii	2672	Hawaii	Honolulu	400,000	32
Louisiana	1652	Louisiana	Lafayette	23,000	18.2
Louisiana	2694	Louisiana	Jefferson	64,000	72
Maryland	1278	Maryland	Anne Arundel	22,660	36
Maryland	2495	Maryland	Garrett	3,000	7.8
Maine	2475	Maine	York	20,000	0
Maine	2489	Maine	Piscataquis	1,000	31.75
Maine	2501	Maine	Sagadahoc	8,700	49.2
Missouri	2671	Missouri	Jefferson	48,000	26.4
North Carolina	1220	North Carolina	Rowan	32,000	49.4
New Hampshire	2496	New Hampshire	Belknap, Oxford, Cumberland, Carroll	6,500	23.2
New Hampshire	2519	New Hampshire	Sullivan	6,000	18.4
Oklahoma	2512	Oklahoma	Garfield	50,350	14.4
Pennsylvania	2667	Pennsylvania	Montgomery	13,000	8.8
South Carolina	2634	South Carolina	Georgetown	12,000	23.33
Tennessee	2514	Tennessee	Bradley	43,750	10.4
Texas	2642	Texas	Webb	30,000	24.6

Texas	2666	Texas	Galveston	115,000	36.8
Texas	2673	Texas	Galveston	115,000	24.2
Texas	2689	Texas	Galveston	15,000	32.6
Vermont	2644	Vermont	Bennington	20,000	14.2
Wisconsin	1277	Wisconsin	Dane	424,000	14.4
Wyoming	2476	Wyoming	Teton	13,000	16.2
Arizona	1054	Arizona	Yuma	10,873	N/A
Arizona	1212	Arizona	Maricopa	23,746	27.25
Arizona	1212	Arizona	Maricopa	88,521	55.75
Arizona	1212	Arizona	Maricopa	64,521	23.5
Arizona	1212	Arizona	Maricopa	6,500	24.5
Arizona	1382	Arizona	Maricopa	50,000	9
Arizona	1383	Arizona	Maricopa	2,400,000	23.25
Arizona	2523	Arizona	Maricopa	130,000	11.5
Arizona	590	Arizona	Pima	347,900	9.75
California	215	California	Los Angeles, Ventura	4,000,000	7.86
California	2369	California	Kings	56,000	14.57
California	2396	California	Sutter	70,000	11.14
California	2436	California	Del Norte	15,372	N/A
California	2636	California	Placer, El Dorado, Nevada	50,000	N/A
California	356	California	San Bernardino	325,000	9.67
California	363	California	San Francisco	3,882	19.14
California	363	California	San Francisco	11,738	57.17
California	363	California	San Francisco	6,308	34.14
California	363	California	San Francisco	4,416	38.71
California	88	California	Contra Costa	487,300	10.8
Colorado	1515	Colorado	El Paso	4,779	4.25
Colorado	1525	Colorado	Weld	13,779	0
Colorado	1592	Colorado	Montrose	30,857	2.5
Colorado	161	Colorado	Garfield	16,714	3.33
Colorado	733	Colorado	Douglas	34,786	9
Colorado	737	Colorado	Alamosa	18,364	7.25
Colorado	751	Colorado	Mesa	89,286	15.67
Colorado	928	Colorado	Weld	20,000	22
Connecticut	534	Connecticut	Fairfield	100,000	16.75
Connecticut	832	Connecticut	New London	40,000	22.6
Delaware	1186	Delaware	Sussex	4,050	14.4
Delaware	1191	Delaware	Sussex	75,000	19.8
Florida	1606	Florida	Lee	76,800	N/A
Florida	1735	Florida	Seminole, Orange	51,000	N/A
Florida	2422	Florida	Pinellas	220,000	N/A
Florida	2712	Florida	Duval	14,000	N/A
Georgia	2698	Georgia	Forsyth	36,500	N/A
Georgia	2704	Georgia	Clarke	60,000	N/A
Georgia	2708	Georgia	Treutlen	3,100	N/A

Georgia	2711	Georgia	Bulloch	15,000	N/A
Georgia	2713	Georgia	Paulding	10,000	N/A
Georgia	2716	Georgia	Newton	32,000	N/A
Idaho	1603	Idaho	Ada	117,635	N/A
Idaho	1916	Idaho	Canyon	100,200	N/A
Idaho	992	Idaho	Ada	167,500	N/A
Illinois	1252	Illinois	Du Page	59,805	13.25
Illinois	2125	Illinois	Saint Clair	32,289	8.8
Illinois	462	Illinois	Winnebago	353,599	33
Illinois	616	Illinois	Christian	12,663	34.4
Illinois	617	Illinois	Mchenry	36,552	25.6
Illinois	622	Illinois	Effingham	12,384	14.8
Illinois	624	Illinois	Stephenson	23,650	14
Illinois	626	Illinois	Knox	39,153	16
Illinois	627	Illinois	Morgan	23,818	45.25
Illinois	628	Illinois	Kankakee	56,317	19.5
Illinois	635	Chicago	Cook	125,995	10
Illinois	635	Illinois	Cook	1,134,897	21.14
Illinois	636	Illinois	Cook	110,394	19.71
Illinois	641	Illinois	Cook	217,106	14.71
Illinois	643	Illinois	Lake	55,735	7
Illinois	644	Illinois	Lake	105,208	12.6
Illinois	651	Illinois	Carroll	5,615	24
Illinois	653	Illinois	Macoupin	4,480	56.75
Illinois	654	Illinois	Whiteside	18,678	6
Illinois	674	Chicago	Cook	23,324	13.2
Illinois	731	Illinois	Bureau	5,400	10.2
Illinois	857	Illinois	Lawrence	4,399	18.67
Indiana	2357	Indiana	Hamilton	98,000	7.2
Indiana	772	Indiana	Monroe	67,500	11
Kansas	2464	Kansas	Johnson	112,076	18.5
Kentucky	2654	Kentucky	Madison	37,000	40
Louisiana	1574	Louisiana	Lafourche	14,566	N/A
Louisiana	1960	Louisiana	Jefferson	50,652	N/A
Louisiana	1977	Louisiana	Saint Mary	16,779	N/A
Louisiana	2011	Louisiana	Red River	3,838	N/A
Massachusetts	2471	Massachusetts	Suffolk	23,573	14
Massachusetts	2471	Massachusetts	Suffolk	7,036	26.8
Maine	1994	Maine	Aroostook	2,400	9.25
Maine	1995	Maine	Kennebec	19,000	69.33
Maine	1999	Maine	Piscataquis	1,200	42.4
Maine	716	Maine	Cumberland	8,500	N/A
Michigan	1040	Michigan	Ottawa	3,511	10.2
Michigan	1049	Michigan	Allegan	3,777	1
Michigan	1050	Michigan	Saint Joseph	10,681	0
Michigan	1096	Michigan	Muskegon	32,000	48.5
Michigan	1096	Michigan	Muskegon	10,000	new site
Michigan	1106	Michigan	Iosco	5,000	16



Michigan	1125	Michigan	Marquette	25,000	27
Michigan	1166	Michigan	Huron	4,000	34.67
Michigan	1215	Michigan	Kent	41,000	37.5
Michigan	1216	Michigan	Midland	40,000	38.8
Michigan	1217	Michigan	Kent	145,000	23.2
Michigan	1585	Michigan	Kent	7,000	40.4
Michigan	1729	Michigan	Wayne	6,000	42
Michigan	761	Michigan	Lenawee	8,680	10.4
Michigan	762	Michigan	Washtenaw	330,000	5.1
Michigan	799	Michigan	Washtenaw	150,000	10
Michigan	822	Michigan	Delta	12,600	19.2
Michigan	861	Michigan	Saginaw	40,000	37.8
Michigan	890	Michigan	Ottawa	11,955	21
Michigan	891	Michigan	Kalamazoo	6,703	1
Michigan	891	Michigan	Kalamazoo	45,976	32
Minnesota	2075	Minnesota	Mcleod	14,582	10
Minnesota	2226	Minnesota	Freeborn	17,930	31
Minnesota	2227	Minnesota	Dodge	13,919	11
Minnesota	2238	Minnesota	Mille Lacs	4,137	28.4
Minnesota	2240	Minnesota	Dakota	21,834	38.8
Minnesota	2245	Minnesota	Blue Earth	44,586	22.6
Minnesota	2247	Minnesota	Kanabec	3,631	38
Minnesota	2256	Minnesota	Pennington	9,265	16
Minnesota	2258	Minnesota	Kandiyohi	20,201	25.2
Missouri	119	Missouri	Boone	123,180	60.67
Missouri	132	Missouri	Saint Charles	58,777	N/A
Missouri	191	Missouri	Newton	15,906	33.67
Missouri	197	Missouri	Clay, Platte	13,940	11
Missouri	2068	Missouri	Laclede	15,000	N/A
Missouri	253	Missouri	Audrain	11,500	N/A
Missouri	268	Missouri	Saint Louis	451,367	61
Missouri	270	Missouri	Saint Louis, Saint Charles	174,537	55.5
Missouri	385	Missouri	Buchanan	27,000	N/A
Missouri	386	Missouri	Saint Charles	60,000	43
Missouri	429	Missouri	Franklin	15,000	35
Missouri	71	Missouri	Linn	3,979	N/A
Missouri	87	Missouri	Barry	3,300	24.33
Missouri	95	Missouri	Livingston	9,000	N/A
Montana	2736	Montana	Lewis And Clark	37,125	21.33
Montana	2737	Montana	Park	8,700	21
North Carolina	111	North Carolina	Wilson	49,384	17.4
North Carolina	1521	North Carolina	Mecklenburg	82,158	28.4
North Carolina	1523	North Carolina	Durham	142,000	18.2
North Carolina	2019	North Carolina	Cabarrus	6,898	38.25
North Carolina	237	North Carolina	Mcdowell	8,459	31
North Carolina	86	North Carolina	Wake	75,886	14.6
Nebraska	1493	Nebraska	Holt	3,700	7.8

Nebraska	987	Nebraska	Stanton, Madison	27,000	26.8
Nebraska	988	Nebraska	Lincoln	24,000	7.8
New Hampshire	2088	New Hampshire	Grafton	11,000	N/A
New Hampshire	2090	New Hampshire	Hillsborough	172,000	N/A
New Hampshire	2092	New Hampshire	Rockingham	3,500	N/A
New Jersey	1291	New Jersey	Passaic	54,000	22
New Jersey	2353	New Jersey	Morris	90,000	18.8
New Jersey	2354	New Jersey	Somerset	7,000	23.2
New Jersey	2423	New Jersey	Atlantic	250,000	19.8
New Mexico	2391	New Mexico	Sandoval	101,750	29
New Mexico	2394	New Mexico	Dona Ana	8,127	53.8
New Mexico	2649	New Mexico	Dona Ana	89,719	38.4
New York	1008	New York	Orleans	6,191	49
New York	1010	New York	Monroe	155,096	41.6
New York	1021	New York	Nassau	20,616	24.6
New York	1041	New York	Suffolk	278,775	22.5
New York	1078	New York	Wayne	8,931	29.33
New York	1098	New York	Sullivan	4,925	34.67
New York	1149	New York	Tioga	3,750	31
New York	1153	New York	Livingston	15,688	38.67
New York	1213	New York	Ontario	17,936	35
New York	1306	New York	Nassau	524,955	32
New York	1400	New York	Broome	24,672	37.75
New York	1402	New York	Clinton	20,893	52.2
New York	1403	New York	Rockland	12,676	33.5
New York	1485	New York	Westchester	78,683	23
New York	1487	New York	Westchester	44,876	33.2
New York	1800	New York	Dutchess	13,856	34.33
New York	1853	New York	Suffolk	7,499	35.33
New York	1854	New York	Suffolk	5,789	56.67
New York	1917	New York	Saint Lawrence	4,705	36.6
New York	2112	New York	Livingston	3,288	29.67
New York	2178	New York	Erie	6,908	50
New York	2180	New York	Broome	38,726	0
New York	2187	New York	Lewis	3,953	0
New York	2190	New York	Niagara	5,632	86.67
New York	2195	New York	Ulster	3,793	34.33
New York	2212	New York	Orange	5,672	52
New York	2213	New York	Oneida	6,076	35.33
New York	2219	New York	Oneida	3,990	46.5
New York	479	New York	Chenango	6,734	22.67
New York	521	New York	Onondaga	242,377	0
New York	525	New York	Onondaga	50,727	10.67
New York	567	New York	Fulton	23,379	46.6

New York	690	New York	Cortland	26,950	42.8
New York	691	New York	Herkimer	13,924	28.8
New York	718	New York	Schuyler	3,656	12.33
New York	719	New York	Nassau	24,041	29.2
New York	740	New York	Oneida	55,215	29.4
New York	836	New York	Nassau	611,349	31.4
New York	837	New York	Rockland	53,437	21
New York	838	New York	Rockland	207,430	39.2
New York	974	New York	Yates	5,339	27.33
New York	994	New York	Orleans	6,278	0
New York	999	New York	Chautauqua	12,616	44.4
Ohio	102	Ohio	Marion	36,000	20.8
Ohio	129	Ohio	Defiance	19,900	17
Ohio	134	Ohio	Montgomery	36,150	15.4
Ohio	1608	Ohio	Hocking	8,500	11.6
Ohio	170	Ohio	Butler	65,000	6.6
Ohio	204	Ohio	Portage	29,000	29
Ohio	228	Ohio	Lucas	110,000	14.2
Ohio	277	Ohio	Cuyahoga	524,154	12
Ohio	322	Ohio	Ottawa	7,000	14.8
Ohio	374	Ohio	Franklin	654,817	5.4
Ohio	382	Ohio	Clark	60,000	21.6
Ohio	388	Ohio	Jefferson	17,864	38.33
Ohio	422	Ohio	Trumbull	54,037	17.4
Ohio	46	Ohio	Ashtabula	31,430	6.2
Ohio	74	Ohio	Crawford	12,362	22.4
Ohio	82	Ohio	Carroll	3,500	36
Oklahoma	2573	Oklahoma	Garfield	49,583	N/A
Oklahoma	2575	Oklahoma	Oklahoma	57,288	N/A
Oklahoma	2584	Oklahoma	Cherokee	16,463	N/A
Oregon	469	Oregon	Jackson	21,105	3
Oregon	933	Oregon	Clackamas	14,206	3
Oregon	937	Oregon	Lincoln	8,865	14.67
Oregon	939	Oregon	Lincoln	10,400	11.67
Oregon	941	Oregon	Marion	26,273	15.33
Oregon	950	Oregon	Josephine	37,725	N/A
Oregon	952	Oregon	Hood River	7,800	3
Pennsylvania	1358	Pennsylvania	Cumberland	25,000	24
Pennsylvania	1359	Pennsylvania	Erie	200,000	47.4
Pennsylvania	1367	Pennsylvania	Franklin	67,000	18.6
Pennsylvania	1370	Pennsylvania	Lehigh	200,000	new site
Pennsylvania	1370	Pennsylvania	Lehigh	200,000	14.6
Pennsylvania	1375	Pennsylvania	York	85,000	24.8
Pennsylvania	1530	Pennsylvania	Centre	12,000	N/A
Pennsylvania	1775	Pennsylvania	Lackawanna	15,700	13.8
Pennsylvania	1809	Pennsylvania	Chester	13,500	31.75
Pennsylvania	2329	Pennsylvania	Montgomery	35,000	new site
Rhode Island	548	Rhode Island	Providence	120,000	20.8

Rhode Island	565	Rhode Island	Kent	6,000	24.4
South Carolina	906	South Carolina	Lexington	40,000	N/A
Tennessee	1445	Tennessee	Sumner	45,000	15.67
Tennessee	1539	Tennessee	Sullivan	50,000	12
Texas	165	Houston	Harris, Fort Bend	28,742	32
Texas	176	Houston	Harris	9,375	20
Texas	272	Houston	Harris	4,010	29
Texas	287	Houston	Harris	12,892	4.67
Texas	288	Houston	Harris	33,102	23.67
Texas	350	Houston	Harris	20,608	50.33
Texas	373	Houston	Harris	32,485	20
Texas	434	Houston	Harris, Fort Bend	20,920	16.67
Texas	446	Houston	Harris	20,758	17.33
Utah	1077	Utah	Wasatch	19,936	23.4
Utah	17	Utah	Utah	112,901	41.6
Utah	1	Utah	Washington	24,970	35
Utah	23	Utah	Summit	7,888	18.4
Utah	25	Utah	Davis	21,872	49.8
Utah	27	Utah	Washington	92,047	58.4
Utah	29	Utah	Utah	12,510	41.8
Utah	30	Utah	Salt Lake	254,971	18.4
Utah	34	Utah	Box Elder	12,451	45
Utah	3	Utah	Box Elder	21,443	40
Utah	6	Utah	Davis	64,533	48.4
Virginia	1830	Virginia	Albemarle, Charlottesville City	118,266	20.2
Virginia	1832	Virginia	Frederick	16,563	50.6
Virginia	2029	Virginia	Franklin	5,000	38.2
Virginia	2034	Virginia	Norfolk City	78,322	51.33
Virginia	2079	Virginia	Halifax	4,600	21.33
Virginia	2485	Virginia	Cumberland, Prince Edward	12,390	18.5
Virginia	342	Virginia	Goochland, Henrico, Richmond City	225,000	60
Washington	1398	Washington	Grant	8,475	6.5
Washington	1512	Washington	Whitman	35,812	1.67
Washington	1757	Washington	Thurston	119,790	11.4
Washington	2124	Washington	Whatcom	16,150	14
Washington	661	Washington	Snohomish	37,650	13.75
Washington	759	Washington	Spokane	225,000	3
Wisconsin	115	Wisconsin	Waupaca	4,500	34
Wisconsin	232	Wisconsin	Manitowoc	34,500	39.25
Wisconsin	2530	Wisconsin	Dane	106,791	12.2
Wisconsin	2532	Wisconsin	Dane	83,127	6
Wisconsin	331	Wisconsin	Racine	139,000	21.2

Wisconsin	364	Wisconsin	Sheboygan	70,000	25.2
West Virginia	1418	West Virginia	Marion	610	N/A
West Virginia	1865	West Virginia	Cabell	4,050	42.57
West Virginia	2551	West Virginia	Boone	4,555	N/A
West Virginia	2554	West Virginia	Wood	48,050	21
West Virginia	2558	West Virginia	Monongalia	48,328	12.7
West Virginia	2560	West Virginia	Doddridge	564	N/A
West Virginia	961	West Virginia	Harrison	1,853	N/A
Wyoming	2740	Wyoming	Teton	20,000	N/A
Alabama	1664	Alabama	Jefferson	95,000	35.43
California	1219	California	Lake	9,000	19.17
California	1678	California	Santa Cruz	160,000	31.57
California	1679	California	Santa Cruz	160,000	16.71
California	1687	California	Sonoma	65,000	11
California	1693	California	Los Angeles	3,500,000	30.86
California	1720	California	Contra Costa	100,000	46.5
California	1789	California	Orange	48,000	9.43
California	1792	California	Orange	129,000	11.43
California	1872	California	Alameda	229,476	45.8
California	1892	California	San Diego	2,200,000	8
California	1896	California	Santa Barbara	69,290	10.57
California	1898	California	Monterey	262,000	36.14
California	1911	California	Solano	121,000	22.29
California	1912	California	Sonoma	28,000	25.86
California	2405	California	Mono	35,000	17.5
California	353	California	Santa Clara	1,500,000	18.07
California	383	California	Sacramento	1,480,000	24
California	393	California	San Mateo	199,000	34.46
California	834	California	Riverside	91,765	15.43
Colorado	1901	Colorado	Douglas	35,000	21.71
Florida	1702	Florida	Orange, Pinellas	66,690	27.64
Florida	1840	Florida	Miami-Dade	776,150	24.75
Florida	1868	Florida	Miami-Dade	829,725	25
Georgia	1692	Georgia	Fulton	84,486	11.86
Georgia	1714	Georgia	Chattahoochee, Muscogee	278,000	45.17
Hawaii	2302	Hawaii	Honolulu	44,000	22.71
Hawaii	2610	Hawaii	Honolulu	90,000	16.14
Kentucky	1899	Kentucky	Jefferson	423,913	35.17
Louisiana	2617	Louisiana	Orleans	333,406	7.57
Massachusetts	2032	Massachusetts	Worcester	250,000	43.57
Michigan	1909	Michigan	Grand Traverse	30,623	10.43
Minnesota	1883	Minnesota	Blue Earth, Nicollet	70,000	28
North Carolina	1894	North Carolina	Lenoir	25,000	24.43
Nebraska	2620	Nebraska	Lancaster	240,000	20.86
New Hampshire	1880	New Hampshire	Strafford	30,000	21

New Jersey	2209	New Jersey	Monmouth	50,000	39.4
New Jersey	788	New Jersey	Essex, Bergen, Hudson, Union, Passaic	1,500,000	27.33
Ohio	1810	Ohio	Portage, Summit	365,000	26.29
Texas	1673	Texas	Dallas	200,000	26.71
Texas	1683	Texas	Dallas	186,000	38.33
Texas	1765	Texas	Wichita	90,000	32.25
Texas	1948	Texas	Montgomery	70,000	32.86
Virginia	1908	Virginia	Carroll	3,000	37.57
Vermont	2108	Vermont	Chittenden	16,000	18.6
Wisconsin	2621	Wisconsin	Marathon	44,000	20.71

### Data Table for COVID-19 Wastewater Viral Activity Level Over Time

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Date	Viral Activity Level
2022-01-01	16.81
2022-01-08	23.6
2022-01-15	22.79
2022-01-22	19.33
2022-01-29	14.2
2022-02-05	9.16
2022-02-12	5.75
2022-02-19	3.72
2022-02-26	2.47
2022-03-05	1.62
2022-03-12	1.35
2022-03-19	1.12
2022-03-26	1.23
2022-04-02	1.18
2022-04-09	1.54
2022-04-16	2.03
2022-04-23	3.05
2022-04-30	3.88
2022-05-07	4.95
2022-05-14	5.58
2022-05-21	6.58
2022-05-28	7.14
2022-06-04	6.91
2022-06-11	6.7
2022-06-18	6.62
2022-06-25	7.02
2022-07-02	7.8
2022-07-09	9.15
2022-07-16	8.72
2022-07-23	9.32

2022-07-30	8.84
2022-08-06	7.83
2022-08-13	7.2
2022-08-20	6.7
2022-08-27	6.37
2022-09-03	5.66
2022-09-10	5.41
2022-09-17	4.98
2022-09-24	4.52
2022-10-01	3.69
2022-10-08	3.33
2022-10-15	3.31
2022-10-22	3.3
2022-10-29	3.94
2022-11-05	3.98
2022-11-12	3.99
2022-11-19	4.51
2022-11-26	5.29
2022-12-03	8.39
2022-12-10	8.4
2022-12-17	8.85
2022-12-24	9.29
2022-12-31	10.47
2023-01-07	8.19
2023-01-14	5.91
2023-01-21	5.55
2023-01-28	5.73
2023-02-04	6.05
2023-02-11	5.98
2023-02-18	6.22
2023-02-25	5.75
2023-03-04	5.11
2023-03-11	4.3
2023-03-18	4.49
2023-03-25	4.48
2023-04-01	3.38
2023-04-08	2.89
2023-04-15	2.71
2023-04-22	2.12
2023-04-29	1.86
2023-05-06	1.97
2023-05-13	1.91
2023-05-20	1.64
2023-05-27	1.51
2023-06-03	1.26
2023-06-10	1.12
2023-06-17	1.13
2023-06-24	1.13

2023-07-01	1.29
2023-07-08	1.52
2023-07-15	1.66
2023-07-22	1.95
2023-07-29	2.41
2023-08-05	2.84
2023-08-12	3.68
2023-08-19	3.98
2023-08-26	4.39
2023-09-02	5.08
2023-09-09	5.72
2023-09-16	5.14
2023-09-23	4.69
2023-09-30	4.5
2023-10-07	3.76
2023-10-14	3.25
2023-10-21	3.36
2023-10-28	3.48
2023-11-04	3.67
2023-11-11	4.06
2023-11-18	4.73
2023-11-25	5.22
2023-12-02	6.89
2023-12-09	7.5
2023-12-16	8.99
2023-12-23	10.58
2023-12-30	12.67
2024-01-06	11.68
2024-01-13	9.07
2024-01-20	7.45
2024-01-27	7.13
2024-02-03	6.04
2024-02-10	6.02
2024-02-17	5.74
2024-02-24	5.33
2024-03-02	4.44
2024-03-09	3.39
2024-03-16	2.51
2024-03-23	2.12
2024-03-30	1.88
2024-04-06	1.79
2024-04-13	1.5
2024-04-20	1.24

### 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

<sup>†</sup>Data will update weekly on Friday as soon as they are reviewed and verified, oftentimes before 8 pm ET. Updates will occur the following day when reporting coincides with a federal holiday. Note: Weekly updates might be delayed due to delays in reporting.

### COVID-19 Wastewater Viral Activity Level Over Time

- For more information, see About the Data on <https://www.cdc.gov/nwss/rv/COVID19-nationaltrend.html>.

### Current virus levels in wastewater by site

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

### Percent change in the last 15 days

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

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

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

### SARS-CoV-2 concentrations in wastewater over time

- When a site is selected, a smoothed, spline fit SARS-CoV-2 concentration line is shown for the last 4 months, as data are available. The smoothed SARS-CoV-2 concentration line shows how SARS-CoV-2 concentrations in wastewater at a sampling site have changed over the last 4 months.
- At least 4 samples are required to produce the smoothed SARS-CoV-2 concentration line. If a major change in laboratory methods is reported, only data since the new laboratory method

was reported are shown. Sites labeled as 'New sites' in the current virus levels in wastewater metric should be viewed with caution since they have only a few samples to generate their trends lines.

#### **Category change in the last 7 days**

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

#### **County-level data**

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

#### **Sewershed locations**

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

#### **Data subject to change**

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

#### **May 2022 Coverage Limitations**

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

#### **Data not shown**

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

#### **Data source**

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

## Laboratory methods

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

## Data download

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

## How does wastewater surveillance work?

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

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

Check your county's [respiratory illness levels](#) 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.

## Cite COVID Data Tracker

Centers for Disease Control and Prevention. COVID Data Tracker. Atlanta, GA: U.S. Department of Health and Human Services, CDC; 2024, May 01.  
<https://covid.cdc.gov/covid-data-tracker>

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