

Mpox



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JYNNEOS Vaccine Coverage by Jurisdiction

Updated April 5, 2023

Beginning March 30, 2023, the data will be updated monthly.

[MMWR, JYNNEOS Vaccination Coverage Among Persons at Risk for Mpox — United States, May 22, 2022–January 31, 2023](#)

[Risk Assessment](#) of mpox Resurgence and Implications for Vaccination

The [figure on this page](#) shows vaccine coverage by jurisdiction for the estimated population at risk for mpox in people who have had at least one dose and who are fully vaccinated. [CDC estimates show](#) that without continued efforts to vaccinate people with the highest risk of mpox exposure, including newly sexually active gay, bisexual, and other men who have sex with men (MSM), a resurgence of mpox will become more likely over time.

Overview

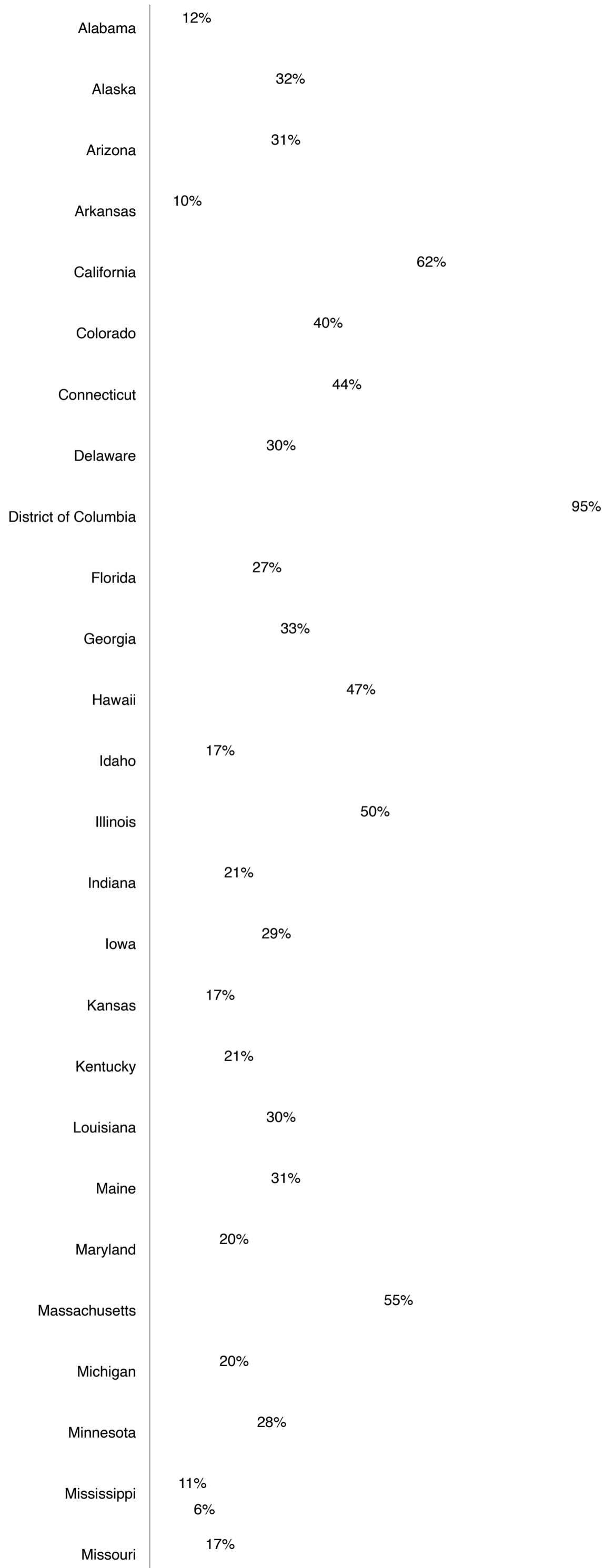
JYNNEOS vaccine (the vaccine used in the current mpox outbreak) is effective at preventing mpox among people at risk of mpox. According to [MMWR, JYNNEOS Vaccination Coverage Among Persons at Risk for Mpox — United States, May 22, 2022–January 31, 2023](#), although approximately 1.2 million vaccine doses have been administered, only 23% of the [population at risk](#) has been [fully vaccinated](#) nationally. Vaccine coverage varies widely between jurisdictions. Reasons for coverage variability could include lower vaccine accessibility and awareness, fewer vaccine providers, lower vaccine confidence and demand, and concern about stigma.

To prevent new cases of mpox and future outbreaks, public health agencies and their partners are strongly encouraged to continue to improve vaccine equity and vaccine coverage among those at risk for mpox and increase the number of people fully vaccinated especially among those overly represented communities of Black and Hispanic or Latino men.

Vaccine coverage estimates shown in the figure and table below cover May 22, 2022–March 28, 2023 based on data reported to CDC as of March 28, at 1:00pm.

Mpox Vaccine Coverage by Jurisdiction for Population at Risk for Mpox

- At Least One Dose Coverage
- Fully Vaccinated (Second Dose) Coverage



Data Used for Mpox

Defining Vaccine Coverage

Mpox vaccine coverage is the estimated proportion of people recommended to receive mpox vaccine. CDC currently recommends mpox vaccination for populations at increased risk of mpox exposure, including gay, bisexual and other men who have sex with men (MSM) with multiple recent sexual partners, MSM with HIV, those with a known or suspected exposure to mpox, women who have a male sexual partner that meets the above criteria, and laboratory and health care workers working in high-risk settings. The number of people eligible for vaccination is estimated from other CDC data sources.

Defining the Numerator and Denominator

The numerator for the vaccination coverage estimate is the number of people vaccinated. Fully vaccinated is defined as having received two JYNNEOS vaccine doses on different days, regardless of the time interval, and who have been vaccinated at least 14 days before their second dose for at least 14 days. This mpox vaccine administration data are collected by jurisdictional Immunization Information Systems (IIS) and reported to the CDC [Immunization Data Lake](#).

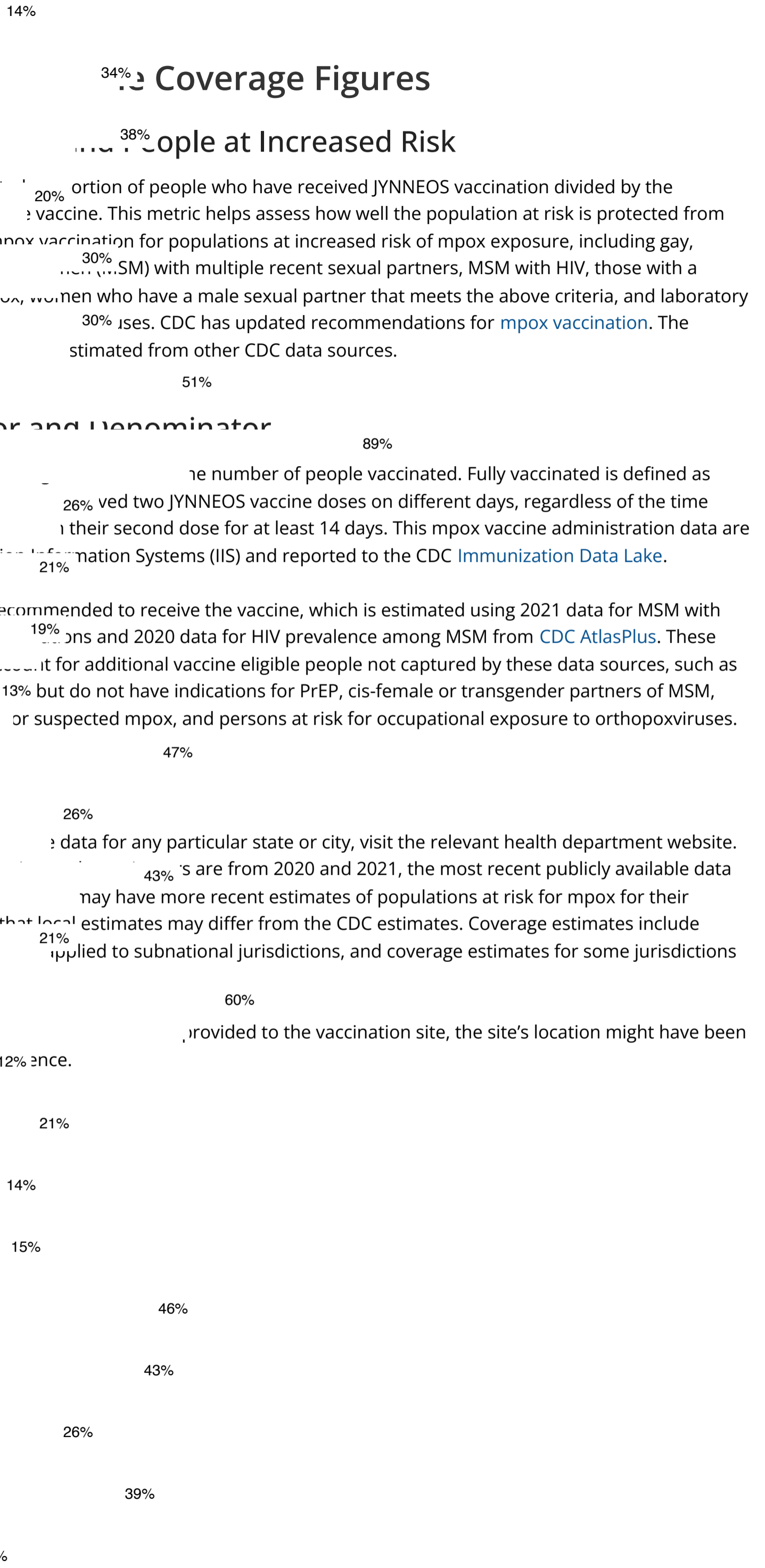
The denominator is the population recommended to receive the vaccine, which is estimated using 2021 data for MSM with HIV pre-exposure prophylaxis (PrEP) and 2020 data for HIV prevalence among MSM from [CDC AtlasPlus](#). These estimates are increased by 25% to account for additional vaccine eligible people not captured by these data sources, such as MSM who are at increased risk for mpox but do not have indications for PrEP, cis-female or transgender partners of MSM, or suspected mpox, and persons at risk for occupational exposure to orthopoxviruses.

Limitations

Pennsylvania (other than Philadelphia)

- For the most complete and up-to-date data for any particular state or city, visit the relevant health department website. The data that CDC has used to estimate mpox vaccine coverage are from 2020 and 2021, the most recent publicly available data available. Local health departments may have more recent estimates of populations at risk for mpox for their jurisdictions; this is one reason that local estimates may differ from the CDC estimates. Coverage estimates include assumptions based on national data and may not be representative of individual jurisdictions. Coverage estimates are applied to subnational jurisdictions, and coverage estimates for some jurisdictions might be biased.

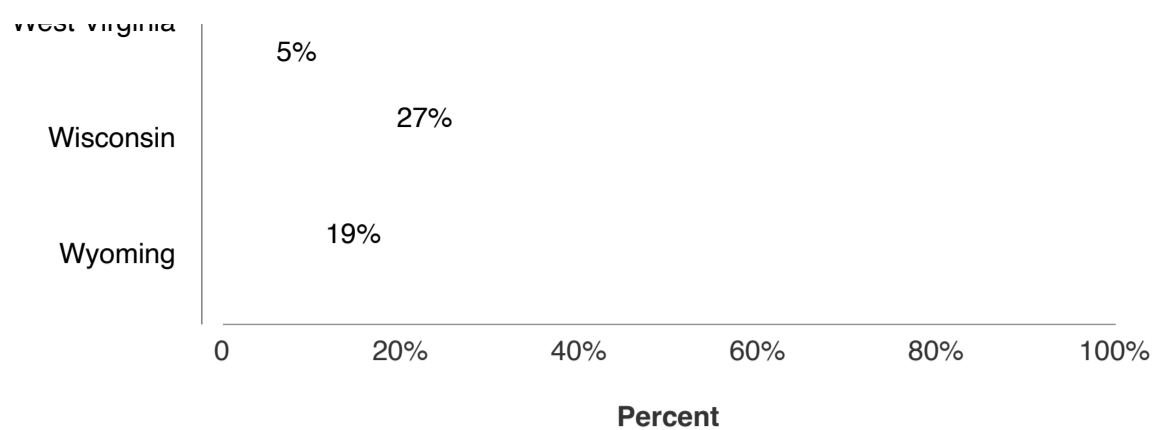
- In cases where a person's place of residence is not known or is erroneously used for place of residence.



Coverage Figures

People at Increased Risk

portion of people who have received JYNNEOS vaccination divided by the number of people recommended to receive the vaccine. This metric helps assess how well the population at risk is protected from mpox. CDC currently recommends mpox vaccination for populations at increased risk of mpox exposure, including gay, bisexual and other men who have sex with men (MSM) with multiple recent sexual partners, MSM with HIV, those with a known or suspected exposure to mpox, women who have a male sexual partner that meets the above criteria, and laboratory and health care workers working in high-risk settings. CDC has updated recommendations for [mpox vaccination](#). The number of people eligible for vaccination is estimated from other CDC data sources.



Search

Numerator/denominator data for each jurisdiction

Jurisdiction	Denominator (MSM++) N	First Doses n	First Doses %	Fully Vaccinated n	Fully Vaccinated %
Alabama	21,354	2,546	12	1,458	7
Alaska	2,292	723	32	486	21
Arizona	41,472	12,778	31	7,608	18
Arkansas	9,987	1,032	10	682	7
California	294,264	183,087	62	114,198	39
Colorado	37,201	14,821	40	9,859	27
Connecticut	14,332	6,253	44	4,220	29
Delaware	6,284	1,858	30	1,236	20

District of Columbia	22,325	21,241	95	14,845	66
Florida	199,954	54,280	27	38,702	19
Georgia	83,888	27,872	33	19,144	23
Hawaii	6,607	3,090	47	1,892	29
Idaho	5,721	990	17	691	12
Illinois	84,379	42,525	50	24,582	29
Indiana	30,868	6,337	21	2,737	9
Iowa	6,969	2,012	29	1,400	20
Kansas	7,864	1,299	17	864	11
Kentucky	19,344	4,003	21	2,412	12
Louisiana	29,193	8,737	30	5,536	19
Maine	5,160	1,578	31	1,082	21
Maryland	44,521	8,851	20	4,851	11
Massachusetts	37,109	20,287	55	13,545	37
Michigan	43,136	8,431	20	5,409	13
Minnesota	28,108	7,952	28	6,076	22
Mississippi	11,288	1,210	11	709	6
Missouri	29,363	4,963	17	3,020	10
Montana	2,854	388	14	281	10
Nebraska	3,996	1,353	34	1,158	29
Nevada	21,468	8,094	38	4,440	21
New Hampshire	3,940	780	20	449	11
New Jersey	43,643	12,987	30	8,061	18
New Mexico	10,379	3,079	30	2,075	20
New York (other than New York City)	40,769	20,615	51	11,990	29
New York City	110,897	98,910	89	49,783	45
North Carolina	55,827	14,552	26	10,252	18
North Dakota	1,816	383	21	253	14
Ohio	58,955	11,184	19	8,504	14
Oklahoma	16,451	2,217	13	1,354	8
Oregon	26,255	12,288	47	6,728	26
Pennsylvania (other than Philadelphia)	37,778	9,929	26	6,124	16
Philadelphia	18,762	8,111	43	4,065	22

Puerto Rico	16,371	3,508	21	2,596	16
Rhode Island	5,526	3,288	60	2,465	45
South Carolina	22,587	2,754	12	1,964	9
South Dakota	1,320	277	21	173	13
Tennessee	35,993	5,102	14	3,341	9
Texas	201,491	29,888	15	18,700	9
Utah	9,692	4,458	46	2,952	30
Vermont	1,638	708	43	436	27
Virginia	48,510	12,836	26	9,024	19
Washington	52,104	20,460	39	12,369	24
West Virginia	6,614	497	8	320	5
Wisconsin	18,252	4,917	27	3,528	19
Wyoming	1,168	223	19	176	15

 [Download .csv file](#)  [XLS - 2 KB]

Last Reviewed: April 5, 2023