



Mpox

## JYNNEOS Vaccine Coverage by Jurisdiction

Data as of October 24 2023 05:02 PM EDT

Starting in September 2023, the data will be updated once per month.

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

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

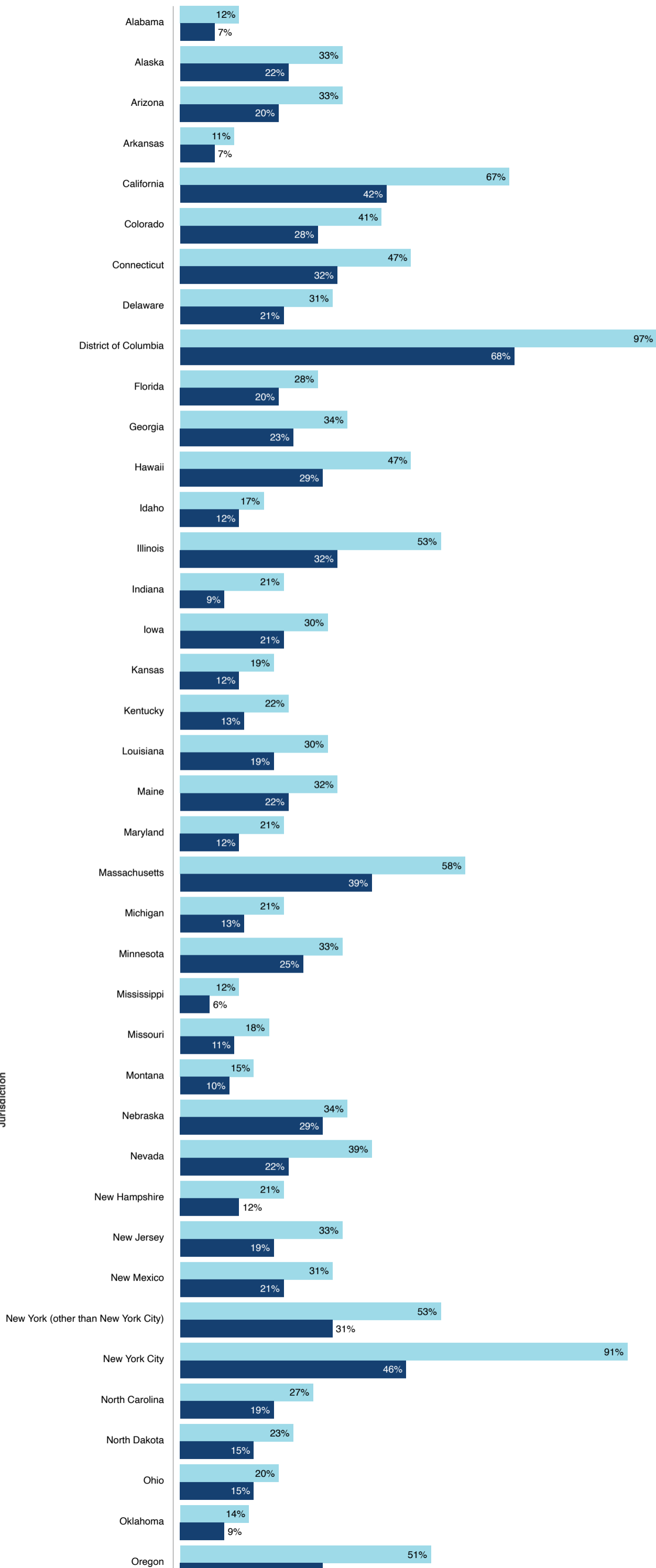
JYNNEOS vaccine (the vaccine used in the current mpox outbreak) is effective at preventing mpox among people at risk of mpox. According to [MMWR, JYNNEOS Vaccination Coverage Among Persons at Risk for Mpox — United States, May 22, 2022–January 31, 2023](#), although approximately 1.2 million vaccine 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.

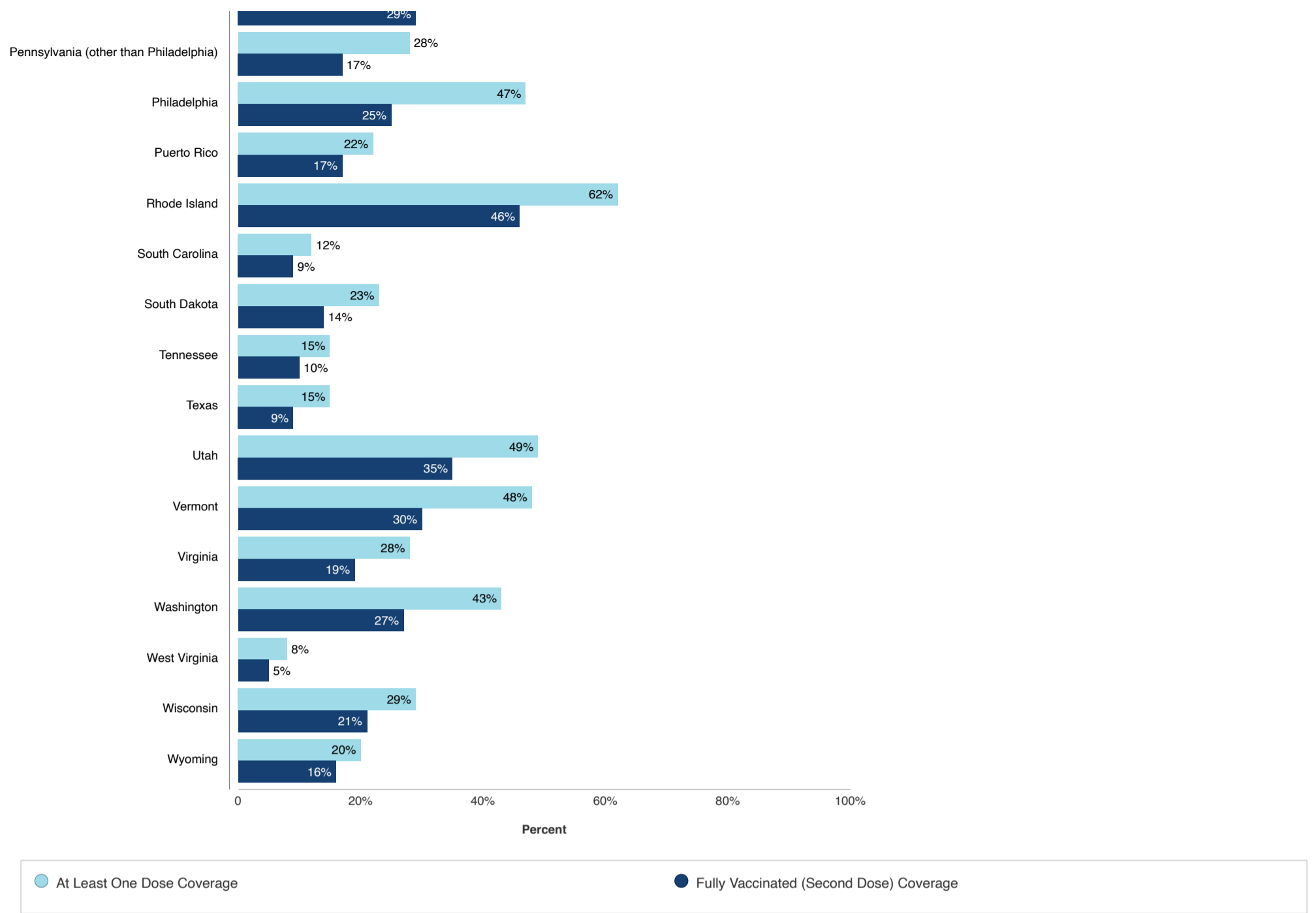
To prevent new cases of mpox and future outbreaks, public health agencies and their partners are strongly encouraged to continue to improve vaccine equity and vaccine coverage among those at risk for mpox and increase the number of people fully vaccinated especially among those overrepresented communities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

Data will be updated **once per month** after they are reviewed and verified. Updates may be delayed due to delays in reporting (generally due to holidays).

Mpox Vaccine Coverage by Jurisdiction for Population at Risk for Mpox

Jurisdiction





## Data Used for Mpxv Vaccine Coverage Figures

### Defining Vaccine Coverage and People at Increased Risk

Mpxv vaccine coverage is the estimated proportion of people who have received JYNNEOS vaccination divided by the population 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 with orthopoxviruses. CDC has updated recommendations for [mpox vaccination](#). The number of people eligible for vaccination is estimated from other CDC data sources.

### Defining the Numerator and Denominator

The denominator (**MSM++**) is the population recommended to receive the vaccine, which is estimated using 2021 data for MSM with HIV pre-exposure prophylaxis (PrEP) indications and 2020 data for HIV prevalence among MSM from [CDC AtlasPlus](#). The numerator for the vaccination coverage calculation is the number of people vaccinated. Fully vaccinated is defined as people 13 years of age and older who have received two JYNNEOS vaccine doses on different days, regardless of the time interval, and who have been vaccinated with 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) indications 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, close contacts of persons with known or suspected mpox, and persons at risk for occupational exposure to orthopoxviruses.

### Limitations

- 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 denominators are from 2020 and 2021, the most recent publicly available data on a national scale. 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 applied to subnational jurisdictions, and coverage estimates for some jurisdictions might be biased.
- In cases where a person's place of residence was not provided to the vaccination site, the site's location might have been erroneously used for place of residence.

Search

Numerator/denominator data for each jurisdiction

Jurisdiction	Denominator (MSM++) N	First Doses n	First Doses %	Fully Vaccinated n	Fully Vaccinated %
Alabama	21,354			2,666	12
Alaska	2,292			752	33

Arizona	41,472	13,775	33	8,395	20
Arkansas	9,987	1,049	11	702	7
California	294,265	196,347	67	123,712	42
Colorado	37,201	15,346	41	10,383	28
Connecticut	14,332	6,741	47	4,582	32
Delaware	6,284	1,962	31	1,302	21
District of Columbia	22,325	21,585	97	15,174	68
Florida	199,954	55,635	28	39,646	20
Georgia	83,888	28,389	34	19,537	23
Hawaii	6,607	3,137	47	1,930	29
Idaho	5,721	982	17	690	12
Illinois	84,378	45,135	53	26,913	32
Indiana	30,868	6,600	21	2,833	9
Iowa	6,969	2,086	30	1,445	21
Kansas	7,864	1,456	19	968	12
Kentucky	19,344	4,252	22	2,567	13
Louisiana	29,193	8,875	30	5,621	19
Maine	5,160	1,666	32	1,134	22
Maryland	44,521	9,388	21	5,159	12
Massachusetts	37,109	21,547	58	14,442	39
Michigan	43,136	8,883	21	5,823	13
Minnesota	28,108	9,404	33	6,957	25
Mississippi	11,288	1,326	12	723	6
Missouri	29,363	5,280	18	3,303	11
Montana	2,854	427	15	298	10
Nebraska	3,996	1,374	34	1,166	29
Nevada	21,468	8,431	39	4,680	22
New Hampshire	3,940	833	21	485	12
New Jersey	43,643	14,506	33	8,420	19
New Mexico	10,379	3,213	31	2,170	21
New York (other than New York City)	40,769	21,622	53	12,628	31
New York City	110,897	100,652	91	51,484	46
North Carolina	55,827	14,908	27	10,537	19
North Dakota	1,816	410	23	272	15
Ohio	58,955	11,579	20	8,882	15
Oklahoma	16,451	2,291	14	1,499	9
Oregon	26,255	13,317	51	7,529	29
Pennsylvania (other than Philadelphia)	37,778	10,607	28	6,573	17
Philadelphia	18,762	8,757	47	4,621	25
Puerto Rico	16,371	3,675	22	2,768	17
Rhode Island	5,526	3,404	62	2,545	46
South Carolina	22,587	2,781	12	1,981	9
South Dakota	1,320	303	23	180	14
Tennessee	35,993	5,438	15	3,580	10
Texas	201,491	30,485	15	19,122	9
Utah	9,692	4,759	49	3,359	35
Vermont	1,638	786	48	497	30
Virginia	48,510	13,354	28	9,359	19
Washington	52,104	22,228	43	13,865	27
West Virginia	6,614	519	8	326	5
Wisconsin	18,252	5,236	29	3,745	21
Wyoming	1,168	232	20	182	16

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