Congressional Research Service
Informing the legislative debate since 1914

INSIGHT

COVID-19 Vaccination: Selected U.S. Data Sources

Updated February 15, 2022

The sources below can help congressional staff track the progress of the U.S. Coronavirus Disease 2019 (COVID-19) vaccination campaign at the national, state, and local levels.

Sources were selected for having commonly cited and frequently requested data. This list is not intended to be comprehensive. Because different resources use different methodologies, readers should check websites' notes and caveats, and use caution when comparing data. For help interpreting or analyzing these data, congressional staff should contact CRS (202-707-5700, or place an online request).

For an overview of considerations for Congress, see CRS Report R47024, *Immunization Information Systems: Overview and Current Issues* and CRS Insight IN11584, *Tracking COVID-19 Vaccines: U.S. Data Systems and Related Issues*. For international sources, see CRS Insight IN11732, *International COVID-19 Data and Vaccine Distribution: Selected Resources*.

Centers for Disease Control and Prevention's (CDC's) Vaccines for COVID-19 can assist constituents with questions about the vaccines.

Example sources on public attitudes toward vaccination include CDC's National Immunization Survey, COVIDVaxView, and State of Vaccine Confidence Insights Report, Kaiser Family Foundation, Carnegie Mellon University, Johns Hopkins, and scholarly articles.

Vaccines.gov maps vaccination sites. Vaccine Equity Planner (Ariadne Labs) helps identify "vaccine deserts" that lack convenient access to vaccination.

About Vaccine Data

In the COVID-19 vaccine program, jurisdictions (e.g., states, territories, tribes, and local entities), federal agencies, and pharmacy partners determine the number and types of doses to be shipped to vaccination sites. Doses are then *delivered* (i.e., distributed) to vaccination administration sites such as vaccination clinics, doctors' offices, and pharmacies. Providers then *administer* doses to patients and report administration data to jurisdictions and CDC. (See CDC's About COVID-19 Vaccine Delivered and Administration Data.) Federal health care programs (e.g., Veterans Health Administration) manage vaccine data through a similar process.

Congressional Research Service
https://crsreports.congress.gov
IN11595

FDA has approved or authorized three vaccines for the prevention of COVID-19 in different age groups, summarized in **Table 1**.

Table 1. COVID-19 Vaccines Approved or Authorized by FDA

(as of February 15, 2022)

	Pfizer-BioNTech	Moderna	J&J/Janssen
Primary Series	Two doses given three weeks apart	Two doses given four weeks apart	One dose
FDA Approval/Licensure	Yes, approved under the name Comirnaty as a two-dose regimen for individuals 16+	Yes, approved under the name Spikevax as a two-dose regimen for individuals 18+	Not approved
Emergency Use Authorization (EUA)	Yes, authorized as a • two-dose regimen in individuals 5+ (with a lower dose authorized for children 5-11), • third dose for certain immunocompromised individuals 5+, and • single booster dose to be given at least five months after the primary series in individuals 12+.	Yes, authorized as a • two-dose regimen for ages 18+, • third dose for certain immunocompromised individuals 18+, and • single booster dose (half dose) to be given at least five months after the primary series in individuals 18+.	Yes, authorized as a • single-dose regimen in individuals 18+ and • single booster dose to be given at least two months after first dose in individuals 18+.

Source: Agata Bodie, Analyst in Health Policy, CRS, based on FDA's documents at *COVID-19 Vaccines*.

Any of the available vaccines can be used as a "mix and match" booster dose in eligible individuals. CDC recommends the Pfizer-BioNTech or Moderna vaccines to be given as a booster shot two months after receiving the J&J/Janssen vaccine or five months after completing the Pfizer-BioNTech or Moderna vaccination series.

CDC Sources

CDC provides data on doses and people vaccinated. Some aggregated national data are available for federal entities (Bureau of Prisons, Department of Defense, Indian Health Service, and Veterans Health Administration; see "Data Table"). CDC also tracks rates of COVID-19 cases, deaths, and hospitalizations by vaccination and booster status. CDC continues to study vaccine effectiveness in real-world conditions.

CDC (click map) compiles links to state dashboards, which may also track local data.

Non-CDC Sources

Non-CDC sources provide different visualizations and analyses of CDC data and incorporate data from various jurisdiction-specific sources:

- Bloomberg
- Covid Act Now (and Harvard analysis with congressional district estimates as of September 2021)

- Johns Hopkins University & Medicine (JHU)
- Kaiser Family Foundation (KFF)
- *Washington Post (WP)*
- Centers for Medicare & Medicaid Services (CMS) posts nursing home-reported data.

Vaccination Data Sources

Table 2 links to websites containing specific vaccination statistics.

Table 2. Vaccination Data

(links to selected resources)

Measure	National	State	Local
Doses delivered			
Number	CDC	CDC	—
Per capita	CDC download Data Table)	CDC	—
By vaccine type (J&J/Janssen, Spikevax/Moderna, Comirnaty/Pfizer-BioNTech)	CDC	CDC (download Data Table)	—
Doses administered			
Number	CDC (also trend) JHU	CDC (also trend) JHU	Harvard (congressional district)[a]
Per capita	CDC (download Data Table) Bloomberg (also trend)	CDC Bloomberg (also trend)	—
Per day (daily count and 7-day average, trend)	CDC[b] *WP*	CDC[b] *WP*	—
By vaccine type	CDC	CDC (download Data Table)	—
Percentage of delivered doses that have been administered	Bloomberg ("Supply used")	Bloomberg ("Supply used")	—
Booster doses administered in last 7 days	CDC[c]	CDC[c]	
People vaccinated			
People who received ≥1 dose (number)	CDC (also trend)[b]	CDC (also trend)[b]	CDC (county) CDC (CBSA)[d] Harvard (congressional district)[a]
People who received ≥1 dose (percentage)	CDC Covid Act Now	CDC Covid Act Now[e]	CDC (county) CDC (CBSA)[d] Covid Act Now (county, metro area)[e] Harvard (congressional district)[a]

Measure	National	State	Local
People fully vaccinated[f] (number)	CDC (also trend)[b] JHU *WP*	CDC (also trend)[b] JHU *WP*	CDC (county) CDC (CBSA)[d] Harvard (congressional district)[a]
People fully vaccinated[f] (percentage)	CDC JHU *WP*	CDC Covid Act Now[e] JHU *WP*	CDC (county, also case rates and testing positivity map) CDC (CBSA)[d] Covid Act Now (county, metro area)[e] Harvard (congressional district)[a] *WP* (county)
People fully vaccinated[f] by vaccine type	CDC	CDC (download Data Table)	—
People who received additional (including booster) doses	CDC[g] (also trend) *WP*	CDC (download Data Table[g]) (also trend) Covid Act Now[e] *WP*	CDC (county) Covid Act Now (county, metro area)[e]
People eligible for booster who have not yet received it	CDC ("Booster eligible")	—	—
Demographics[h]	CDC (race/ethnicity, sex, age; also trends) CDC (booster uptake by race/ethnicity) CDC (aged 65+) CDC (trends by age, alongside cases) CDC (disability status and age, race/ethnicity) CDC (pregnant people by race/ethnicity, trend) CDC (urban/rural, trend) KFF (race/ethnicity) *WP* (race/ethnicity, age trends)	CDC (aged 65+) CDC[c] (age) CDC (urban/rural, trend) KFF (race/ethnicity)	CDC (age, county and CBSA)[d] CDC (aged 65+, county) CDC (social vulnerability, urban/rural, county)
Nursing homes			
Percentage of residents and staff vaccinated	CDC (trend) CMS	CDC (trend) CMS	CMS (facility-level data in "Search for a nursing home") Medicare.gov (facility-level data)

Source: CRS based on sources as of February 15, 2022.

Notes: Some sources report similar data, but with different visualizations and analysis.

a. Data were last updated September 2021 but may be of historical interest.

b. See also 7-day average trend alongside cases or deaths, see "View (right axis)."

c. Scroll to Excel spreadsheets under "Attachments."
d. Scroll to Excel spreadsheets under "Attachments." Metropolitan and Micropolitan Statistical Areas are collectively known as Core-Based Statistical Areas (CBSAs).
e. Search state, city, or county, then scroll to "% Vaccinated" for trend.
f. As defined in these data sources, "fully vaccinated" people have received the second dose of a two-dose vaccine or one dose of a single-shot vaccine (CDC).
g. Includes number, percentage, and by vaccine type.
h. Not all states report demographics on vaccine recipients.

Author Information

Ada S. Cornell
Senior Research Librarian

Angela Napili
Senior Research Librarian

Disclaimer