

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

Updated August 1, 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).

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 *distributed* (i.e., delivered) 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 [U.S. COVID-19 Vaccination Data](#).) Federal health care providers (e.g., Veterans Health Administration) manage vaccine data through a similar process.

FDA has [approved or authorized](#) four vaccines for the prevention of COVID-19 in different age groups, summarized in [Table 1](#).

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Table 1. COVID-19 Vaccines Approved or Authorized by FDA
(as of August 1, 2022)

	Pfizer-BioNTech	Moderna	J&J/Janssen	Novavax
Primary Series	Three doses (ages 6 months through 4 years) Two doses (ages 5+)	Two doses	One dose	Two doses
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	Not approved
Emergency Use Authorization (EUA)	Yes, authorized as a <ul style="list-style-type: none"> three-dose primary series for ages 6 months through 4 years, two-dose primary series for ages 5+ (with a lower dose authorized for children 5-11), third dose for certain immunocompromised individuals aged 5+, single booster dose for ages 5+, and second booster dose in individuals 50+ and in certain immunocompromised individuals 12+. 	Yes, authorized as a <ul style="list-style-type: none"> two-dose primary series for ages 6 months+, third primary series dose for certain immunocompromised individuals aged 6 months+, single booster dose for ages 18+, and second booster dose in individuals 50+ and in certain immunocompromised individuals 18+. 	Yes, authorized for individuals for whom other authorized or approved COVID-19 vaccines are not accessible or clinically appropriate, or who elect to receive the Janssen vaccine because they would otherwise not receive a COVID-19 vaccine: <ul style="list-style-type: none"> single-dose primary series for ages 18+, and single booster dose for ages 18+. 	Yes, authorized as a two-dose primary series for ages 18+.

Source: Agata Bodie, Analyst in Health Policy, CRS, based on FDA's documents at [COVID-19 Vaccines](#).

Notes: See FDA's [COVID-19 Vaccines](#) for details on timing and size of doses, which vary by population, age group, and vaccine type.

The [CDC](#) and [FDA](#) maintain public websites that provide up-to-date information on recommended regimens, booster eligibility, and vaccine courses for each available manufacturer.

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 distributed			
Number	CDC	CDC	—
Per capita	CDC (download Data Table)	CDC	—
By vaccine type (J&J/Janssen, Spikevax/Moderna, Comirnaty/Pfizer-BioNTech, Novavax)	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 distributed doses that have been administered	Bloomberg (“Supply used”)	Bloomberg (“Supply used”)	—
Booster doses administered in last 7 days	CDC ^c	CDC ^c	—

Measure	National	State	Local
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
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 or with booster doses, by vaccine type	CDC	CDC (download Data Table)	—
People who received additional (including booster) doses	CDC ^g (also trend) ^h WP	CDC (download Data Table ^g) (also trend) ^h Covid Act Now ^e WP	CDC (county) CDC (CBSA) ^d Covid Act Now (county, metro area) ^e

Measure	National	State	Local
Demographics ⁱ	<p>CDC (race/ethnicity, sex, age; also trends)</p> <p>CDC (booster uptake by race/ethnicity)</p> <p>CDC (booster eligibility and receipt, by age)</p> <p>CDC (aged 65+)</p> <p>CDC (trends by age, alongside cases)</p> <p>CDC^c (people initiating vaccination in last 7 days, by age)</p> <p>CDC^c (people receiving booster in last 7 days, by age)</p> <p>CDC (disability status and age, race/ethnicity)</p> <p>CDC (pregnant people by race/ethnicity, trend)</p> <p>CDCError! Reference source not found. (urban/rural, trend)</p> <p>KFF (race/ethnicity)</p> <p>WP (race/ethnicity, age trends)</p>	<p>CDC (sex, age, trends)</p> <p>CDC (aged 65+)</p> <p>CDC^c (age)</p> <p>CDCError! Reference source not found. (urban/rural, trend)</p> <p>CDC^c (people initiating vaccination in last 7 days, by age)</p> <p>CDC^c (people receiving booster in last 7 days, by age)</p> <p>KFF (race/ethnicity)</p>	<p>CDC (age, county and CBSA)^d</p> <p>CDC (aged 65+, county)</p> <p>CDC (social vulnerability, urban/rural, county)</p> <p>CDC (people initiating vaccination in last 7 days, by age, county and CBSA)^d</p> <p>CDC (people receiving booster in last 7 days, by age, county and CBSA)^d</p>
Nursing homes			
Percentage of residents and staff vaccinated	<p>CDC (trend)</p> <p>CMS</p>	<p>CDC (trend)</p> <p>CMS</p>	<p>CMS (facility-level data in “Search for a nursing home”)</p> <p>Medicare.gov (facility-level data)</p>

Source: CRS based on sources as of August 1, 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 “Show More”: “Attachments.”
- d. Scroll to Excel spreadsheets under “Show More”: “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. Choose measures under “Select a Metric.”
- i. [Not all states report demographics on vaccine recipients.](#)
- j. View “Urbanicity Chart.”

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