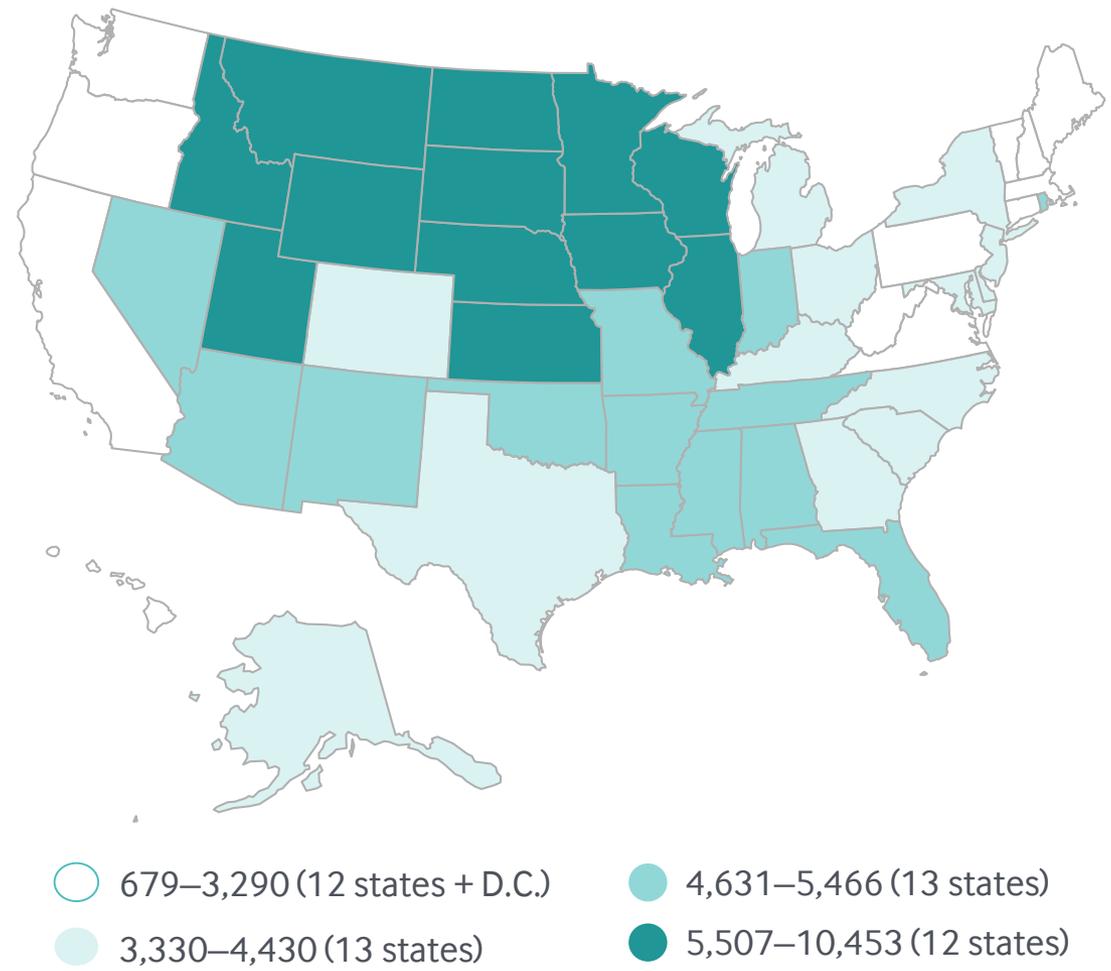


The COVID-19 case burden has been higher in some states than in others. Recently, midwestern and southern states have eclipsed coastal states.

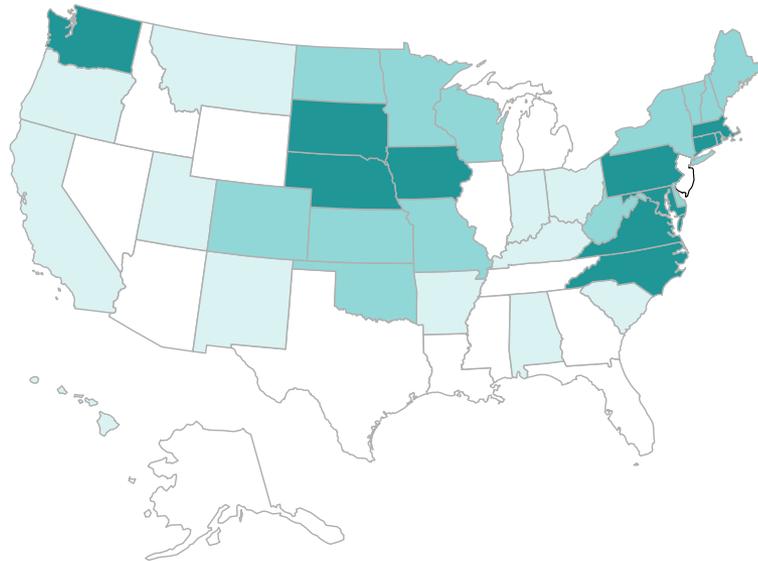
Total COVID-19 cases per 100,000 residents, by state



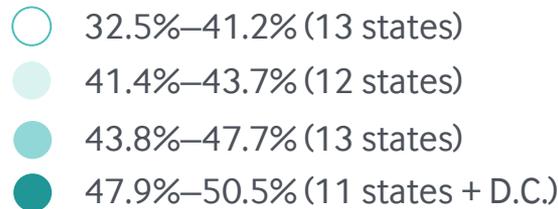
Data: [New York Times COVID-19 Tracker](#), cases reported as of December 1, 2020.

Some states with higher current COVID-19 case burden have had lower flu vaccination rates in the past.

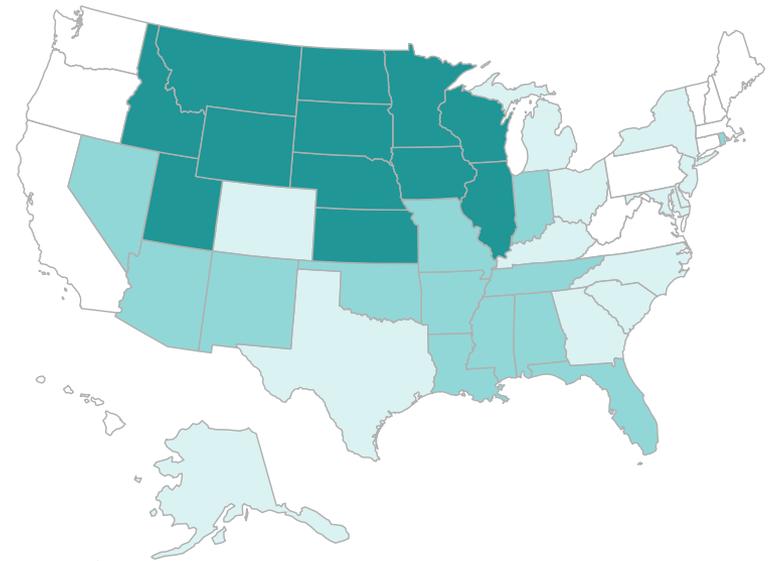
Flu vaccination, 2019



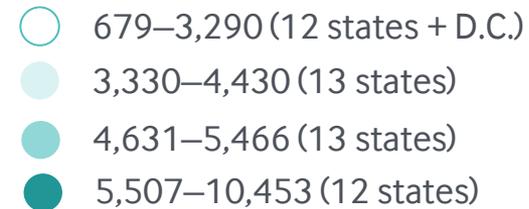
Vaccination rates (age 18+)



COVID-19 cases



Cases per 100,000 people

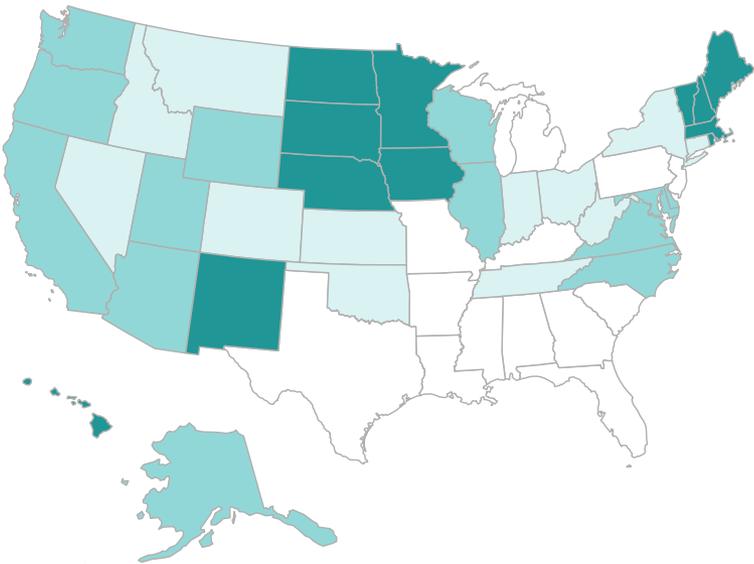


Note: New Jersey not included in BRFSS 2019 data because of state reporting errors.

Data: Flu vaccination rates – Behavioral Risk Factor Surveillance System (BRFSS), 2019; COVID-19 case rates – [New York Times COVID-19 Tracker](https://www.nytimes.com/interactive/2020/12/01/us/covid-19-cases.html), cases reported as of December 1, 2020.

The distribution and take-up of the H1N1 vaccine in 2009–2010 fell short in many states that today have higher total COVID-19 burdens.

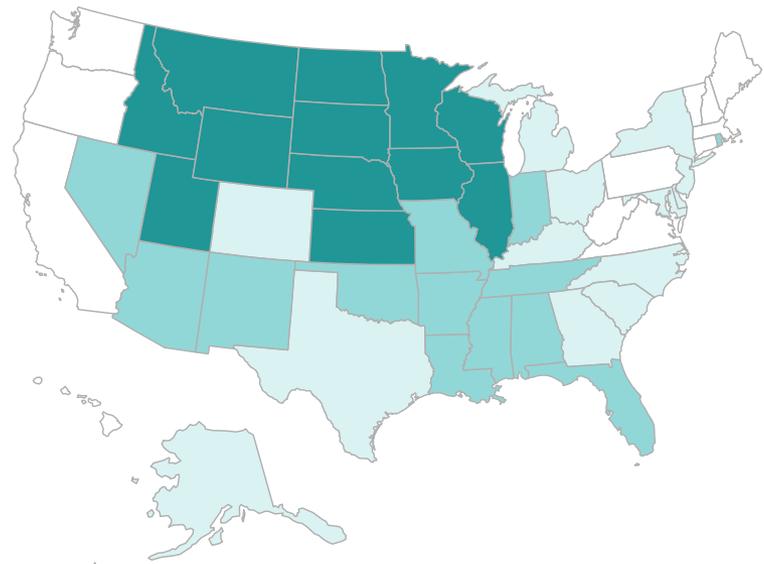
H1N1 vaccination,
Oct. 2009-May 2010



Vaccination rates (age 18+)

- 12.4%–20.5% (13 states)
- 20.8%–23.7% (12 states + D.C.)
- 23.9%–28.3% (13 states)
- 28.4%–37.6% (12 states)

COVID-19 cases

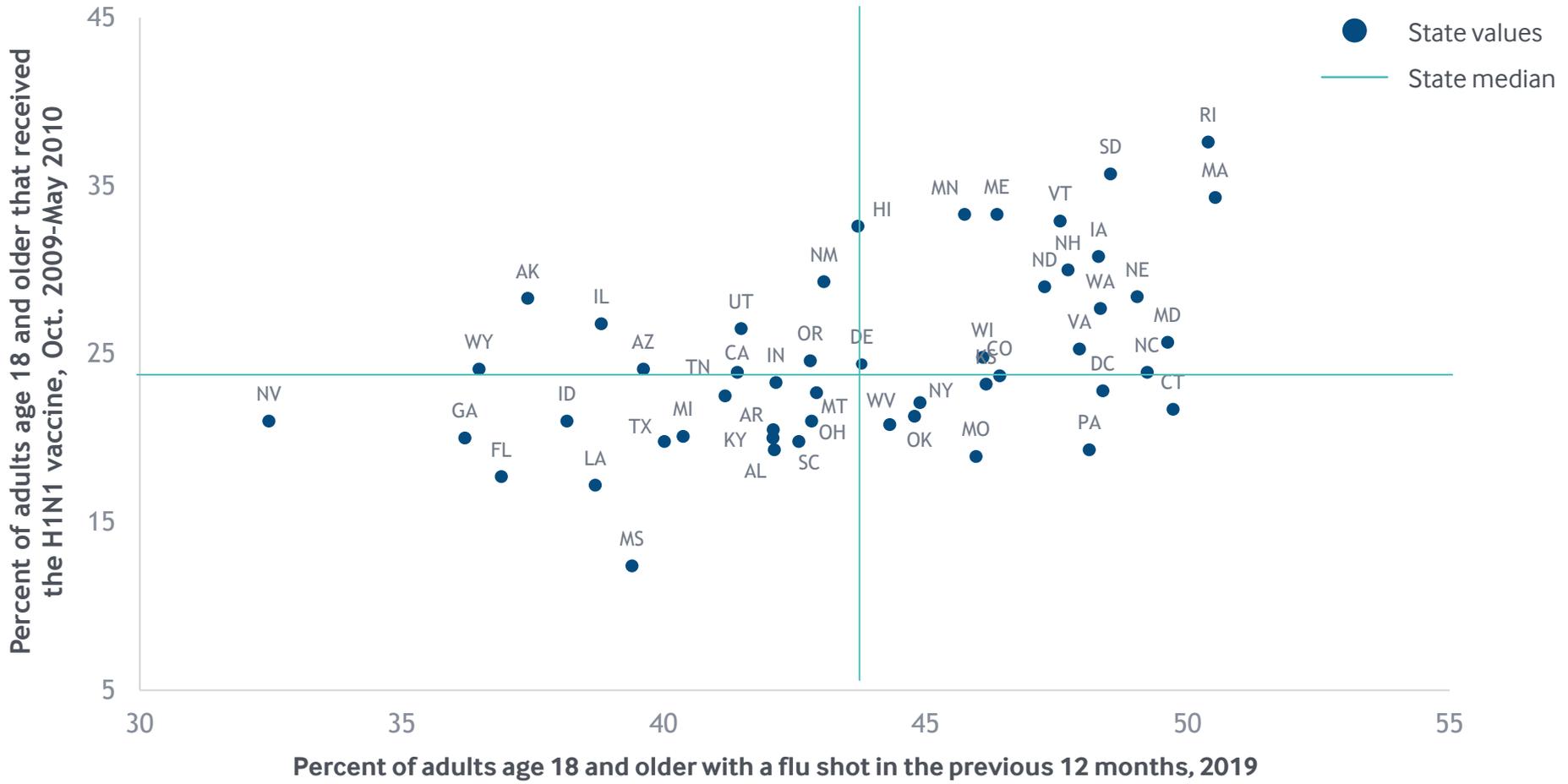


Cases per 100,000 people

- 679–3,290 (12 states + D.C.)
- 3,330–4,430 (13 states)
- 4,631–5,466 (13 states)
- 5,507–10,453 (12 states)

Data: H1N1 vaccination rates (Oct. 2009-May 2010) – Centers for Disease Control and Prevention, [2009-10 Influenza Season Vaccination Coverage Report](#), based on Behavioral Risk Factor Surveillance System (BRFSS) and the National 2009 H1N1 Flu Survey (NHFS); COVID-19 case rates – [New York Times COVID-19 Tracker](#), cases reported as of December 1, 2020.

Many states with low H1N1 vaccination rates in 2009–2010 were still reporting low annual flu vaccination rates in 2019.



Note: New Jersey not included in BRFSS 2019 data because of state reporting errors.

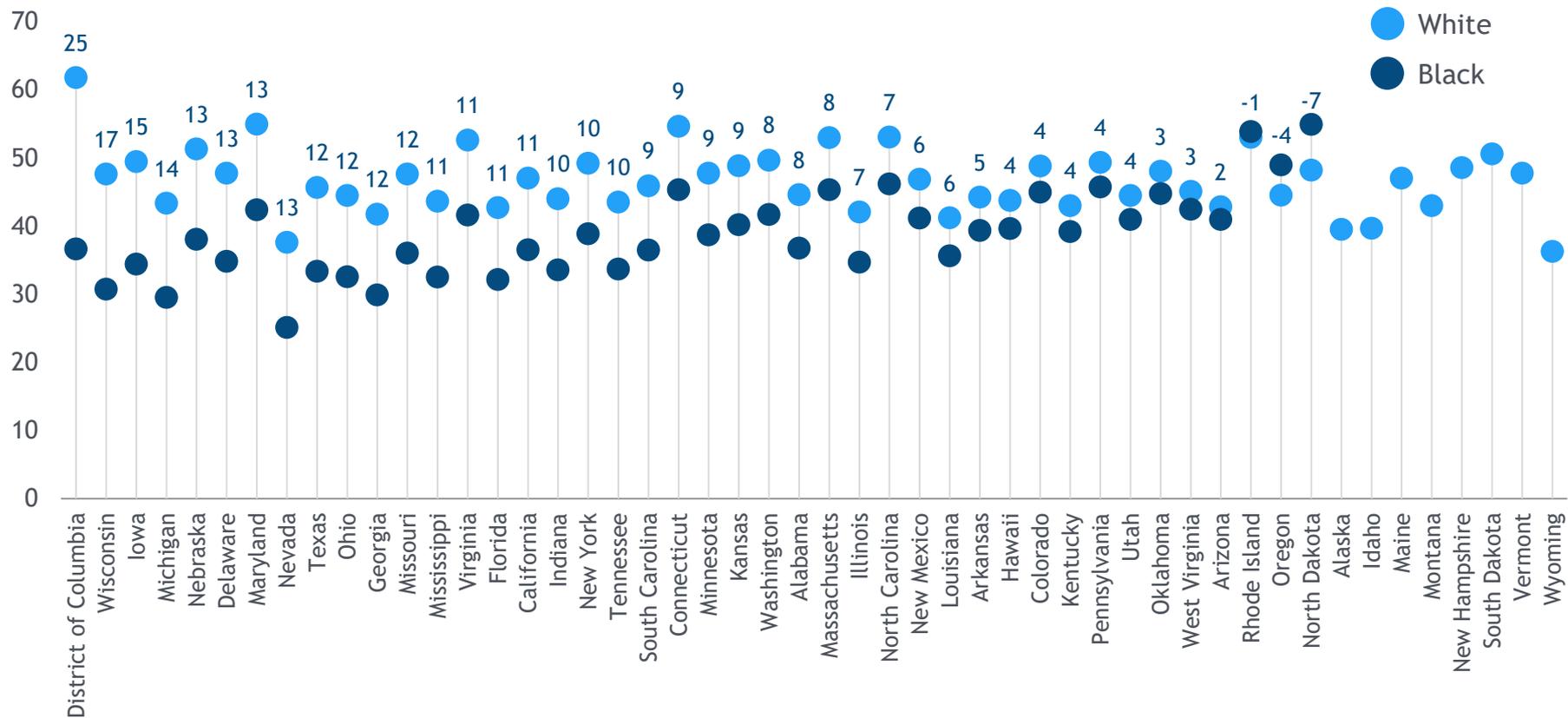
Data: Flu vaccination rates – Behavioral Risk Factor Surveillance System (BRFSS), 2019; H1N1 vaccination rates (Oct. 2009-May 2010) – Centers for Disease Control and Prevention, [2009-10 Influenza Season Vaccination Coverage Report](#), based on Behavioral Risk Factor Surveillance System (BRFSS) and the National 2009 H1N1 Flu Survey (NHFS).



Source: Jesse C. Baumgartner et al., *How Prepared Are States to Vaccinate the Public Against COVID-19? Learning from Influenza and H1N1 Vaccination Programs* (Commonwealth Fund, Dec. 2020). <https://doi.org/10.26099/y667-yr94>

At least a 10-percentage-point flu vaccination gap between white and Black residents was reported in 19 states and jurisdictions.

Percent of adults age 18 and older with a flu shot in the previous 12 months

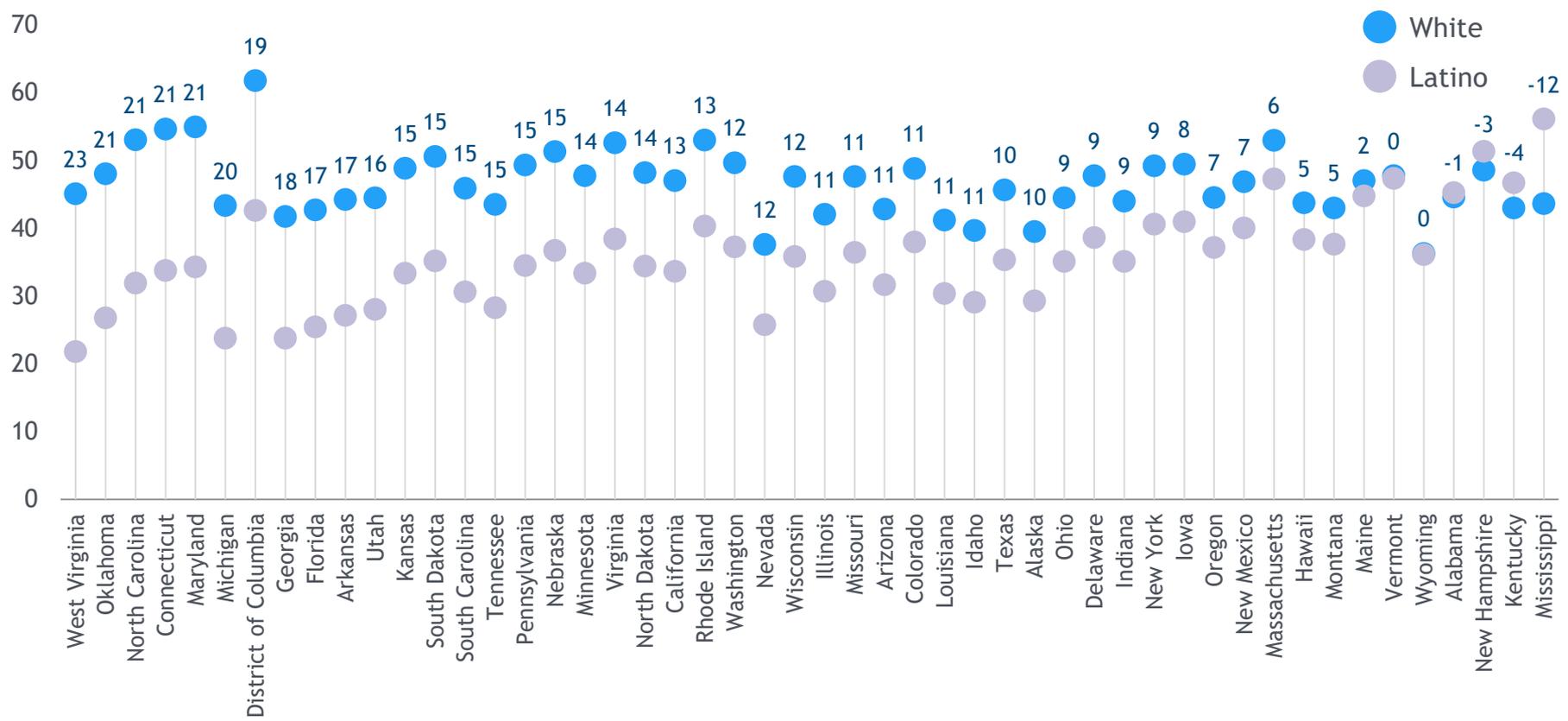


Notes: States arranged in rank order based on size of vaccination disparity (listed in the data labels above the state dots). New Jersey not included in BRFSS 2019 data because of state reporting errors. Rates for Black adults not available for Alaska, Idaho, Maine, Montana, New Hampshire, South Dakota, Vermont, and Wyoming.

Data: Behavioral Risk Factor Surveillance System (BRFSS), 2019.

Nearly all states report wide flu vaccination gaps between white and Latino respondents.

Percent of adults age 18 and older with a flu shot in the previous 12 months



Notes: States arranged in rank order based on size of vaccination disparity (listed in the data labels above the state dots). New Jersey not included in BRFSS 2019 data because of state reporting errors.

Data: Behavioral Risk Factor Surveillance System (BRFSS), 2019.



Source: Jesse C. Baumgartner et al., *How Prepared Are States to Vaccinate the Public Against COVID-19? Learning from Influenza and H1N1 Vaccination Programs* (Commonwealth Fund, Dec. 2020). <https://doi.org/10.26099/y667-yr94>