A STATE-LEVEL LOOK AT FLU VACCINATION RATES AMONG KEY POPULATION SUBGROUPS

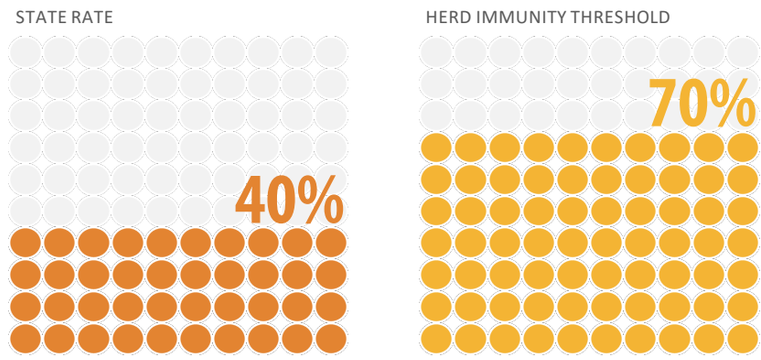
SHADAC's analysis of 2017-2019 Behavioral Risk Factor Surveillance System (BRFSS) Data.

Montana

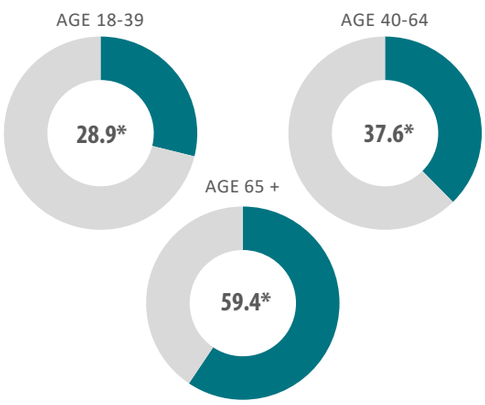
Though there is no consensus on one singular figure needed to achieve what is commonly known as "herd immunity" (i.e., sufficient levels of COVID vaccinations in order to achieve protective population immunity) scientists and researchers have generally agreed on a range of 70-90% of the population being vaccinated. For simplicity, we use the lower end of the target range (70%) as a comparison for these state profiles.

Using data from the U.S. Centers for Disease Control and Prevention's (CDC) Behavioral Risk Factor Surveillance System (BRFSS) survey, these profiles give a deeper look into flu vaccination rates across the states among U.S adults (age 18 +) as a proxy to identify population subgroups that may be harder to reach with a COVID-19 vaccine.

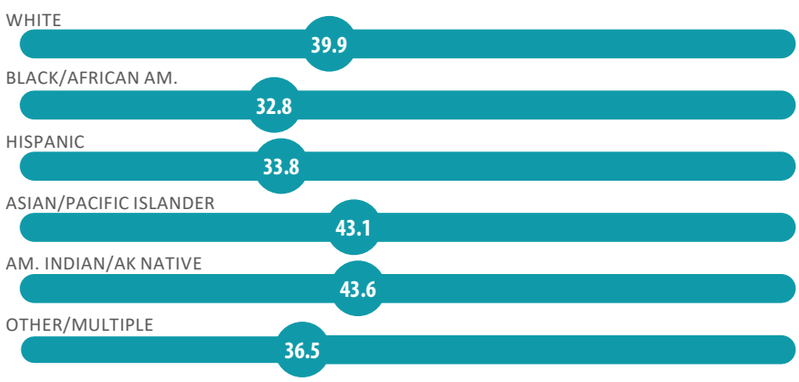
State Flu Vaccination Rate vs. COVID-19 Herd Immunity Threshold



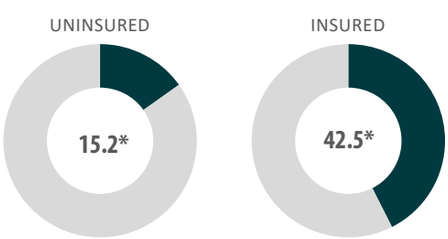
Flu Vaccination Rates by Age



Flu Vaccination Rates by Race/Ethnicity



Flu Vaccination Rates by Insurance Status

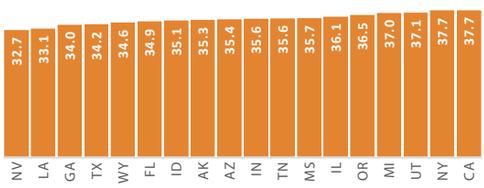


Flu Vaccination Rates by Household Income

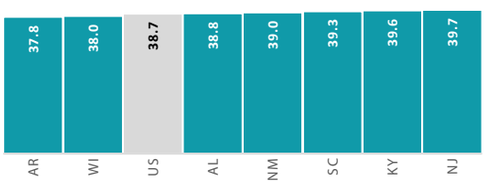
* Significantly different from the statewide rate (adults age 18+) at 95% confidence level.

State vs. National Adult Flu Vaccination Rates

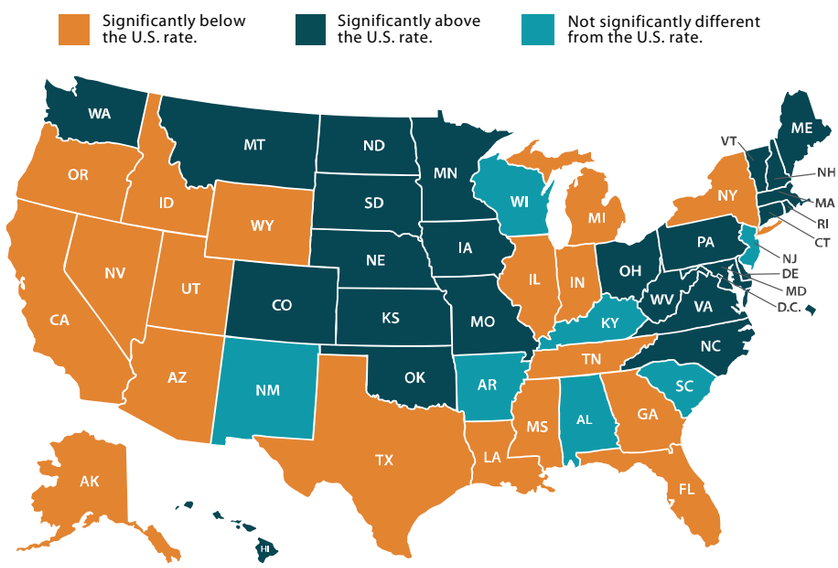
18 STATES had flu vaccine rates significantly below the U.S. rate.



7 STATES had flu vaccine rates that were not significantly different from the U.S. rate.



27 STATES and D.C. had flu vaccine rates significantly above the U.S. rate.



CLICK HERE to access SHADAC's related brief: *Anticipating COVID-19 Vaccination Challenges through Flu Vaccination Patterns*

CLICK HERE to visit SHADAC's State Health Compare for more data on flu vaccination rates in the states

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Montana

	Montana			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	39.7		1.0*	38.7	
Age					
18-39	28.9	-10.9*	0.3	28.5	-10.2*
40-64	37.6	-2.1*	0.4	37.2	-1.5*
65+	59.4	19.7*	0.0	59.4	20.7*
Race/Ethnicity					
White	39.9	0.2	-1.8*	41.7	3.0*
Black/African American	32.8	-6.9	0.1	32.8	-5.9*
Hispanic	33.8	-6.0	2.8	30.9	-7.7*
Asian/Pacific Islander	43.1	3.4	1.7	41.4	2.7*
American Indian/Alaska Native	43.6	3.9	9.7*	33.9	-4.8*
Other/multiple	36.5	-3.2	1.6	34.9	-3.8*
Sex					
Male	34.8	-4.9*	-0.6	35.4	-3.3*
Female	44.7	5.0*	2.9*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	36.7	-3.0*	1.3*	35.4	-3.3*
1+ chronic conditions	50.7	11.0*	1.5	49.1	10.5*
Health Insurance Coverage					
Uninsured	15.2	-24.5*	-2.4	17.6	-21.1*
Insured	42.5	2.8*	0.9	41.6	2.9*
Access to Care					
No personal doctor	21.0	-18.7*	0.9	20.1	-18.6*
Has personal doctor	46.8	7.1*	2.7*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	41.1		0.9	40.2	
Less than high school	33.3	-7.7*	-0.7	34.0	-6.1*
High school graduate	34.9	-6.2*	-0.7	35.6	-4.6*
Some college or associate's degree	40.4	-0.7	1.6	38.8	-1.4*
Bachelor's degree or higher	49.8	9.5*	1.9*	47.9	9.2*
Household Income					
Less than $25,000	35.9	-3.8*	1.2	34.8	-3.9*
$25,000 to $49,999	37.8	-1.9	1.3	36.5	-2.2*
$50,000 to $74,999	40.9	1.2	2.3	38.6	-0.1
$75,000 or more	44.1	4.3*	1.3	42.8	4.1*

Notes: Adults defined as 18 years of age and above, except where explicitly noted under the educational attainment. All differences are statistically significant at the 95% confidence level.
Source: SHADAC analysis of the 2017-2019 Behavioral Risk Factor Surveillance System (BRFSS) public use files on statehealthcompare.shadac.org