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

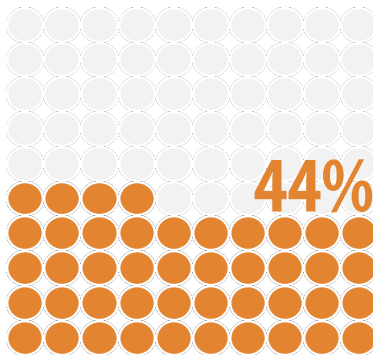*SHADAC's analysis of 2017-2019 Behavioral Risk Factor Surveillance System (BRFSS) Data.*

District of Columbia

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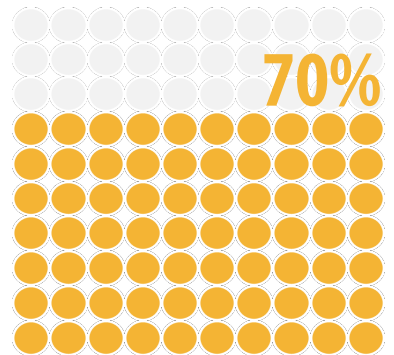
Using data from the U.S. Centers for Disease Control and Prevention's (CDC) Behavioral Risk Factor Surveillance System (BRFSS) survey, these profiles give a deeper look into flu vaccination rates across the states among U.S adults (age 18 +) as a proxy to identify population subgroups that may be harder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

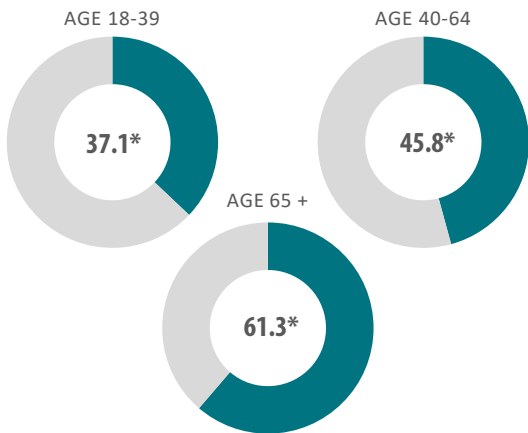## State Flu Vaccination Rate vs. COVID-19 Herd Immunity Threshold
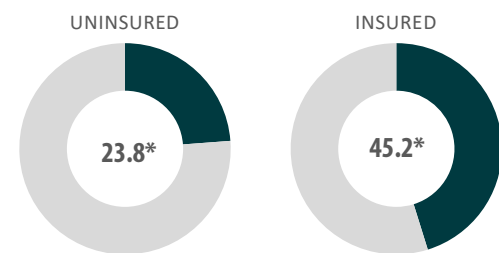
STATE RATE
44%

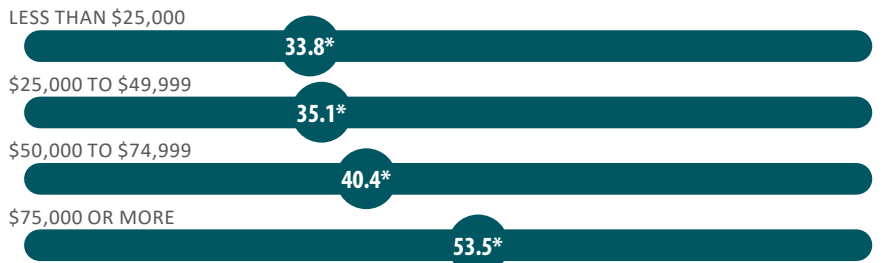HERD IMMUNITY THRESHOLD
70%

Flu Vaccination Rates by Age

AGE 18-39
37.1*

AGE 40-64
45.8*

AGE 65 +
61.3*

Flu Vaccination Rates by Race/Ethnicity

WHITE	55.6*
BLACK/AFRICAN AM.	34.9*
HISPANIC	38.8*
ASIAN/PACIFIC ISLANDER	37.8
AM. INDIAN/AK NATIVE	31.8
OTHER/MULTIPLE	32.9*

Flu Vaccination Rates by Insurance Status

UNINSURED
23.8*

INSURED
45.2*

Flu Vaccination Rates by Household Income

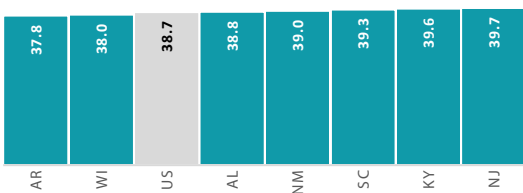|	
LESS THAN $25,000	33.8*
$25,000 TO $49,999	35.1*
$50,000 TO $74,999	40.4*
$75,000 OR MORE	53.5*

* 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.

NV	LA	GA	TX	WY	FL	ID	AK	AZ	IN	TN	MS	IL	OR	MI	UT	NY	CA
32.7	33.1	34.0	34.2	34.6	34.9	35.1	35.3	35.4	35.6	35.6	35.7	36.1	36.5	37.0	37.1	37.7	37.7
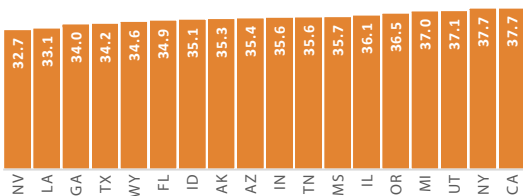
7 STATES had flu vaccine rates that were not significantly different from the U.S. rate.

AR	WI	US	AL	NM	SC	KY	NJ
37.8	38.0	38.7	38.8	39.0	39.3	39.6	39.7

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

OH	MT	KS	HI	ME	NH	MO	OK	VT	CO	DE	ND	CT	MA	WA	MN	VA	SD	DC	WV	PA	RI	IA	NE	MD	NC
39.5	39.7	40.1	40.3	41.0	41.4	41.7	42.1	42.2	42.3	43.3	43.4	43.6	43.6	43.7	43.9	44.1	44.2	44.4	44.4	44.8	44.9	45.0	45.4		

Legend:
- Significantly below the U.S. rate.
- Significantly above the U.S. rate.
- Not significantly different from the U.S. rate.
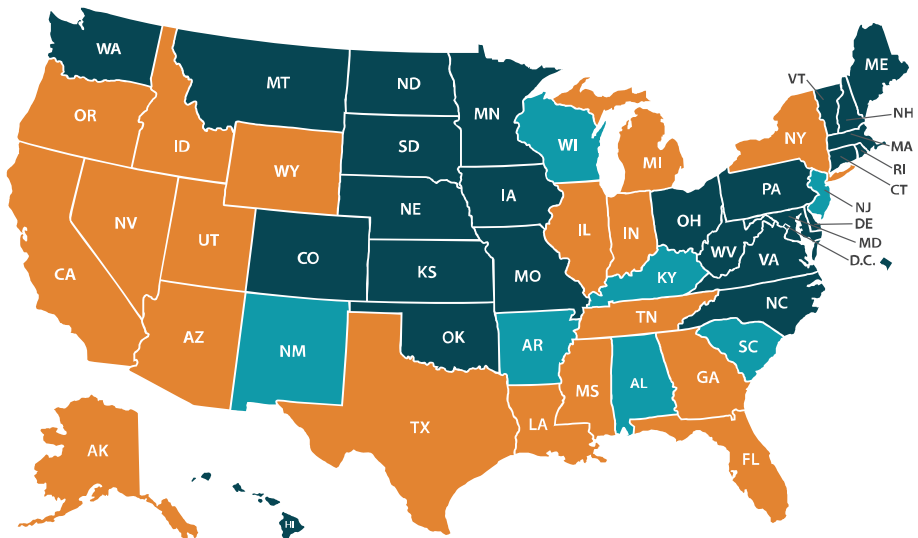
CLICK HERE to access SHADAC's related brief: *Anticipating COVID-19 Vaccination Challenges through Flu Vaccination Patterns*

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

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

District of Columbia	District of Columbia			United States	
	Percent	Diff. from All Adults	Diff. from U.S. rate	Percent	Diff. from All Adults
All Adults Age 18+	43.9		5.2*	38.7	
Age					
18-39	37.1	-6.8*	8.6*	28.5	-10.2*
40-64	45.8	1.9*	8.6*	37.2	-1.5*
65+	61.3	17.4*	1.9	59.4	20.7*
Race/Ethnicity					
White	55.6	11.7*	13.9*	41.7	3.0*
Black/African American	34.9	-9.0*	2.1*	32.8	-5.9*
Hispanic	38.8	-5.1*	7.8*	30.9	-7.7*
Asian/Pacific Islander	37.8	-6.1	-3.6	41.4	2.7*
American Indian/Alaska Native	31.8	-12.1	-2.1	33.9	-4.8*
Other/multiple	32.9	-11.0*	-2.0	34.9	-3.8*
Sex					
Male	42.5	-1.4*	7.1*	35.4	-3.3*
Female	45.1	1.2*	3.3*	41.8	3.1*
Chronic Condition Status					
No chronic conditions	42.5	-1.3*	7.1*	35.4	-3.3*
1+ chronic conditions	48.9	5.0*	-0.3	49.1	10.5*
Health Insurance Coverage					
Uninsured	23.8	-20.1*	6.2*	17.6	-21.1*
Insured	45.2	1.3*	3.6*	41.6	2.9*
Access to Care					
No personal doctor	30.5	-13.4*	10.4*	20.1	-18.6*
Has personal doctor	48.1	4.2*	4.0*	44.1	5.4*
Educational Attainment (Age 25+)					
All Adults Age 25+	45.6		5.4*	40.2	
Less than high school	39.6	-6.0*	5.5*	34.0	-6.1*
High school graduate	34.9	-10.7*	-0.7	35.6	-4.6*
Some college or associate's degree	33.3	-12.2*	-5.4*	38.8	-1.4*
Bachelor's degree or higher	53.2	19.8*	5.2*	47.9	9.2*
Household Income					
Less than $25,000	33.8	-10.1*	-1.0	34.8	-3.9*
$25,000 to $49,999	35.1	-8.7*	-1.4	36.5	-2.2*
$50,000 to $74,999	40.4	-3.5*	1.8	38.6	-0.1
$75,000 or more	53.5	9.6*	10.7*	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